

Sunday, January 17, 2010

Page 1 of 3
REQUEST NUMBER: 10-1303

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: 10-1303
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 1/18/2010
TURNAROUND/REPORT DUE: 2/17/2010
TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background
LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:6020		1	RE15-10-7186	R	1/13/2010	
		1	RE15-10-7187	R	1/13/2010	
		1	RE15-10-7188	R	1/13/2010	
		1	RE15-10-7189	R	1/13/2010	
		1	RE15-10-7190	R	1/13/2010	
		1	RE15-10-7191	R	1/13/2010	
		1	RE15-10-7192	R	1/13/2010	
		1	RE15-10-7193	R	1/13/2010	
		1	RE15-10-7194	R	1/13/2010	

Sunday, January 17, 2010

REQUEST NUMBER: 10-1303

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:6020		1	RE15-10-7195	R	1/13/2010	
		1	RE15-10-7196	R	1/13/2010	
		1	RE15-10-7197	R	1/13/2010	
		1	RE15-10-7219	R	1/13/2010	
		1	RE15-10-7224	W	1/13/2010	
		1	RE15-10-7227	W	1/13/2010	
		1	RE15-10-7228	W	1/13/2010	
		1	RE15-10-7186	R	1/13/2010	
		1	RE15-10-7187	R	1/13/2010	
		1	RE15-10-7188	R	1/13/2010	
SW-846:6850		1	RE15-10-7189	R	1/13/2010	
		1	RE15-10-7190	R	1/13/2010	
		1	RE15-10-7191	R	1/13/2010	
		1	RE15-10-7192	R	1/13/2010	
		1	RE15-10-7193	R	1/13/2010	
		1	RE15-10-7194	R	1/13/2010	
		1	RE15-10-7195	R	1/13/2010	
		1	RE15-10-7196	R	1/13/2010	
		1	RE15-10-7197	R	1/13/2010	
		1	RE15-10-7219	R	1/13/2010	
SW-846:7470A		1	RE15-10-7224	W	1/13/2010	
		1	RE15-10-7227	W	1/13/2010	
		1	RE15-10-7228	W	1/13/2010	
		1	RE15-10-7224	W	1/13/2010	
		1	RE15-10-7227	W	1/13/2010	
		1	RE15-10-7228	W	1/13/2010	
		1	RE15-10-7186	R	1/13/2010	
		1	RE15-10-7187	R	1/13/2010	
		1	RE15-10-7188	R	1/13/2010	
		1	RE15-10-7189	R	1/13/2010	

Sunday, January 17, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1303C

LOS ALAMOS

REQUEST NUMBER: 10-1303

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/17/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7194	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7186	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7191	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7195	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7196	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7197	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7193	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7189	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7187	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7188	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7190	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7192	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7219	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7228	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-7228	1	POLY	SW-846:6850	Ice	W
RE15-10-7228	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-7224	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-7224	1	POLY	SW-846:6850	Ice	W
RE15-10-7224	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-7227	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-7227	1	POLY	SW-846:6850	Ice	W
RE15-10-7227	1	POLY	TCN	Sodium Hydroxide	W

Relinquished By:


Date

Time

Received By:

Date

Time

 1/17/10 3:00

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7184

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1133		SUB-MEDIA:		TUFF 1	
PRS ID: 15-014(h)		ok		SAMPLE TECH CODE:		HA	
LOCATION ID: 15-610513		↓		FIELD QC TYPE:		NA	
LOCATION TYPE: GENERIC		↓		FIELD PREP:		NA	
TOP DEPTH: 0		0.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH: 0		0.7		SCREEN/PORT DESC:		NA	
FIELD MATRIX: R		SED		EXCAVATED: YES/NO/NA		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA		NA	

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	8260B	125 ML SEPTUM AMBER GLASS	Ice	Yes	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	Yes	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Yes	
1		H3	500 ML POLY	Ice	Yes	
1		Met+U+CLO4+C N	1 GAL POLY Liter RC 12/17/09	Ice	Yes	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC:

Brown slightly moist silt/clay

SAMPLE COMMENTS:

NA

LOCATION DESC:

14h-21, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 27 dpmBeta/Gamma \leq 2460 dpm

HE neg

PID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) MARIN	Date/Time 1/17/10	RECEIVED BY (Printed Name) R. Saunders	Date/Time 1/14/10
(Signature) J. R. Marin	7:51	(Signature) [Signature]	7:51
RELINQUISHED BY (Printed Name)	Date/Time	RECEIVED BY (Printed Name)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7185

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		1144		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-014(h)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610513			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	2.0		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	Regular	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		Met+U+CLO4+C N	1 GAL POLY 4 liter Re 12/1/09	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown sandy silt, dry, few tuff fragments

SAMPLE COMMENTS:

NA

LOCATION DESC:

14h-21, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 33 dpm
 Beta/Gamma \leq 2440 dpm

PID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) MARIN (Signature) <i>R. Marin</i>	Date/Time 1/14/10 7:51	RECEIVED BY (Printed Name) <i>R. Saunders</i> (Signature) <i>R. Saunders</i>	Date/Time 1/14/10 7:57
RELINQUISHED BY (Printed Name)	Date/Time	RECEIVED BY (Printed Name)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7186

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:	OBT3		SED
TIME COLLECTED (HH:MM)	7:45m 1/13/10	1445 1345		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-014(h)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610514	↓		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		Met+U+CLO4+C N	1 GAL POLY 2 liter 20 12/17/09	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Wet sand, few roots and rocks

SAMPLE COMMENTS:

NA

LOCATION DESC:

14h-15 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 33 dpm
Beta/Gamma \leq 2070 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) MARIN (Signature) Jen R. Marin	Date/Time 1/14/10 7:52	RECEIVED BY (Printed Name) Sherri Shewood (Signature) Sherri Shewood	Date/Time 1/14/10 7:52
RELINQUISHED BY (Printed Name)	Date/Time	RECEIVED BY (Printed Name)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7187

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:	QBT3		AKH
TIME COLLECTED (HH:MM)	73m	1455	1355	SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-014(h)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610514			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	2.0		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		Met+U+CLO4+C N	1 GAL POLY Liter to 12/17/09	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown silty sand,
some roots and rocks

SAMPLE COMMENTS:

NA

LOCATION DESC:

14h-15 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 55 dpm
Beta/Gamma \leq 2390 dpmPID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MAALIN	1/14/10	(Printed Name) Sheri Sherwood	1/14/10
(Signature) Jan R. Marin	7:52	(Signature) Sheri Sherwood	7:52
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7188

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/13/2010	MEDIA:	QBT3	SED
TIME COLLECTED (HH:MM)		1344	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-014(h)	OK	SAMPLE TECH CODE:	HA	OK
LOCATION ID:	15-610515	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	0.0 ft	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	0.8 ft	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		Met+U+ClO4+C N	1 GAL 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:

14h - 22 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 33 dpm
 B/g \leq 2280 dpm

HE Negative
 PID Ambient 0.0
 Reading 0.0 ppm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) MARIN	Date/Time 1/14/10	RECEIVED BY (Printed Name)	Date/Time 1/14/10
(Signature) <i>R. Marin</i>	7:52	(Signature) <i>[Signature]</i>	7:52
RELINQUISHED BY (Printed Name)	Date/Time	RECEIVED BY (Printed Name)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7189

WORK ORDER:

	AS PLANNED	AS COLLECTED		AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):		01/13/2010	MEDIA:	OBT3	Allh
TIME COLLECTED (HH:MM)		1403	SUB-MEDIA:	TUFF 1	NA
PRS ID:	15-014(h)	ok	SAMPLE TECH CODE:	HA	ok
LOCATION ID:	15-610515	↓	FIELD QC TYPE:	NA	↓
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA	↓
TOP DEPTH:	0	1.0	SAMPLE USAGE:	INV	↓
BOTTOM DEPTH:	0	2.2	SCREEN/PORT DESC:		NA
FIELD MATRIX:	R	S	EXCAVATED: YES/NO/NA		
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	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		Met+U+CLO4+C N	1 GAL POLY Liter RC 12/17/09	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Pinkish gray sandy silt, some roots

SAMPLE COMMENTS: NA

LOCATION DESC: 14h-22 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 38 dpm
Beta/Gamma ≤ 2070 dpm

PID $\frac{\text{Ambient}}{\text{Reading}} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) MARIN	Date/Time 1/14/10 7:53	RECEIVED BY (Printed Name) M. Lisa Martin	Date/Time 1/14/10 753
(Signature) Mr. R. Marin		(Signature) M. Lisa Martin	
RELINQUISHED BY (Printed Name)	Date/Time	RECEIVED BY (Printed Name)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7190

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA: OBT3		SED	
TIME COLLECTED (HH:MM)		1424		SUB-MEDIA: TUFF 1		NA	
PRS ID:	15-014(h)	ok		SAMPLE TECH CODE: HA		ok	
LOCATION ID:	15-610516	↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE:	GENERIC	↓		FIELD PREP: NA		↓	
TOP DEPTH:	0	0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH:	0	0.7		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		EXCAVATED: YES / NO / NA			
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES / NO / NA		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		Met+U+CLO4+C N	1 GAL POLY Liter to 12/1/09	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: moist silty clay with rocks and roots

SAMPLE COMMENTS:

NA

LOCATION DESC: 14h-23, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 22 dpm
Beta/Gamma \leq 1962 dpm

PID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) MARIN (Signature) Jan B. Marin	Date/Time 1/14/10 7:54	RECEIVED BY (Printed Name) [Signature] (Signature) [Signature]	Date/Time 1/14/10 7:54
RELINQUISHED BY (Printed Name)	Date/Time	RECEIVED BY (Printed Name)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7191

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1450		SUB-MEDIA:		TUFF 1	
PRS ID:	15-014(h)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610516	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	1.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	2.0		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		Met+U+CLO4+C N	1 GAT POLY 1 liter RC 12/17/09	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown sand, slightly moist

FR: RE15-10-7228

SAMPLE COMMENTS:

NA

LOCATION DESC:

14h-23, drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 22 dpm
Beta/Gamma \leq 2270 dpm

PID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) MARIN (Signature) J. R. Marin	Date/Time 1/14/10 7:55	RECEIVED BY (Printed Name) Sherrif Shewood (Signature) Sherrif Shewood	Date/Time 1/14/10 7:55
RELINQUISHED BY (Printed Name)	Date/Time	RECEIVED BY (Printed Name)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7192

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		1424		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-014(h)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610517			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		
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	Yes	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	Yes	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Yes	
1		H3	500 ML POLY	Ice	Yes	
1		Met+U+CLO4+C N	1 GAL POLY 4 liter 20 12/17/09	Ice	Yes	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: dark brown moist soil, with rocks

SAMPLE COMMENTS:

NA

LOCATION DESC: 14h-26 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha < 11 dpm
Beta/Gamma < 1990 dpm

PID Ambient Reading 0.0 ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) MARIN (Signature) Jan R. Marin	Date/Time 1/14/10 7:55	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 1/14/10 7:55
RELINQUISHED BY (Printed Name)	Date/Time	RECEIVED BY (Printed Name)	Date/Time

SAMPLE ID: RE15-10-7193

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:		OBT3	
TIME COLLECTED (HH:MM)		1450		SUB-MEDIA:		TUFF 1	
PRS ID:	15-014(h)	ok		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610517	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	1.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	2.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	R	SED		EXCAVATED: YES/NO/NA		NO/NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		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	Yes	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	Yes	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Yes	
1		H3	500 ML POLY	Ice	Yes	
1		Met+U+CLO4+CN	1 LITER POLY 2 liter le 12/17/09	Ice	Yes	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: brown sand, some wood and rocks and ^{1/13/10} ~~slightly~~ moist slightly

SAMPLE COMMENTS:

NA

LOCATION DESC: 14h-26 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha < 44 dpm
Beta/Gamma < 2110 dpm

PID Ambient Reading 0.0 ppm

COLLECTED BY (PRINT)

R. Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) MARIN (Signature) [Signature]	Date/Time 1/14/10 7:55	RECEIVED BY (Printed Name) Sherrif Sherwood (Signature) [Signature]	Date/Time 1/14/10 7:55
RELINQUISHED BY (Printed Name)	Date/Time	RECEIVED BY (Printed Name)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7194

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:	OBT3		SED
TIME COLLECTED (HH:MM)		1540		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-014(h)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610518	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	1.0		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	Yes	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	Yes	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Yes	
1		H3	500 ML POLY	Ice	Yes	
1		Met+U+CLO4+C N	1 GAL POLY Liter KC 12/11/09	Ice	Yes	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: Light brown Silty clay with rocks, some moisture

SAMPLE COMMENTS: NA

LOCATION DESC: 14h-24 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 33 dpm
Beta/Gamma \leq 280 dpmPID Ambient 0.0
Reading 0.0 ppm
HE NEG

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) MARIN	4/14/10	(Printed Name) Sherri Sherwood	1/14/10
(Signature) Jen R. Marin	7:55	(Signature) Sherri Sherwood	7:55
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7195

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1616		SUB-MEDIA:		TUFF 1	
PRS ID: 15-014(h)		OK		SAMPLE TECH CODE:		HA	
LOCATION ID: 15-610518		↓		FIELD QC TYPE:		NA	
LOCATION TYPE: GENERIC		↓		FIELD PREP:		NA	
TOP DEPTH: 0		1.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH: 0		2.0		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	Yes	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	Yes	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Yes	
1		H3	500 ML POLY	Ice	Yes	
1		Met+U+CLO4+C N	1 GAL POLY Liter RC 12/17/09	Ice	Yes	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: Light brown silty soil, with few rocks

SAMPLE COMMENTS:

NA

LOCATION DESC: 14h-24 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha < 38 dpm
Beta/Gamma < 2340 dpm

PID Ambient 0.0
Reading 0.0 ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TL McFarland

RELINQUISHED BY (Printed Name) MARIN (Signature) [Signature]	Date/Time 1/14/10 7:56	RECEIVED BY (Printed Name) [Signature] (Signature) [Signature]	Date/Time 1/14/10 756
RELINQUISHED BY (Printed Name)	Date/Time	RECEIVED BY (Printed Name)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7196

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:	QBT3		SED
TIME COLLECTED (HH:MM)		1553		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-014(h)	ok		SAMPLE TECH CODE:	HA		ok
LOCATION ID:	15-610519			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		
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	Yes	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice	Yes	
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None	Yes	
1		H3	500 ML POLY	Ice	Yes	
1		Met+U+CLO4+C N	1 GAT POLY 6 liter 20 12/1/09	Ice	Yes	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Yes	

SAMPLE DESC: moist sandy clay with some roots + rocks

SAMPLE COMMENTS:

NA

FR RE15-10-7224

LOCATION DESC: 14h-25 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 16 dpm
Beta/Gamma \leq 2150 dpm

HE negative
PID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

COLLECTED BY (PRINT)

TL McFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) MARIN (Signature) J. R. Marin	Date/Time 1/14/10 7:56	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 1/14/10 7:56
RELINQUISHED BY (Printed Name)	Date/Time	RECEIVED BY (Printed Name)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7197

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1617		SUB-MEDIA:		TUFF 1	
PRS ID:	15-014(h)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	15-610519	↓		FIELD QC TYPE:		NA	
LOCATION TYPE:	GENERIC	↓		FIELD PREP:		NA	
TOP DEPTH:	0	1.0		SAMPLE USAGE:		INV	
BOTTOM DEPTH:	0	2.0		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		Met+U+CLO4+C N	1 GAL POLY 4 liter LC 12/17/09	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: Grayish brown silty sand with rocks

SAMPLE COMMENTS: NA

LOCATION DESC: 14h-25 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 33 dpm
Beta/Gamma \leq 2710 dpm

PID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

J Marin

RELINQUISHED BY (Printed Name) MARIN (Signature) J. R. Marin	Date/Time 1/14/10 7:56	RECEIVED BY (Printed Name) J. R. Marin (Signature) J. R. Marin	Date/Time 1/14/10 7:56
RELINQUISHED BY (Printed Name)	Date/Time	RECEIVED BY (Printed Name)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7219

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:		QBT3	
TIME COLLECTED (HH:MM)		1314		SUB-MEDIA:		TUFF 1	
PRS ID:	15-014(h)	OK		SAMPLE TECH CODE:		HA	
LOCATION ID:	UNK	15-610506		FIELD QC TYPE:		ED	
LOCATION TYPE:	GENERIC	OK		FIELD PREP:		NA	
TOP DEPTH:	0	0.0		SAMPLE USAGE:		QC	
BOTTOM DEPTH:	0	0.7		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	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		Met+U+CLO4+C N	1 GAT POLY Liter RC 12/17/09	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE15-10-7170

Brown clayey silt, roots and rocks

SAMPLE COMMENTS:

NA

LOCATION DESC:

14h-14 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 38 dpm
Beta/Gamma \leq 2300 dpm

HE negative
PID Ambient Reading 0.0 ppm

COLLECTED BY (PRINT)

T. McFarland

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY (Printed Name) MARIN (Signature) Jan R. Marin	Date/Time 1/14/10 7:56	RECEIVED BY (Printed Name) [Signature] (Signature) [Signature]	Date/Time 1/14/10 7:56
RELINQUISHED BY (Printed Name)	Date/Time	RECEIVED BY (Printed Name)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7234

WORK ORDER:

AS PLANNED	AS COLLECTED	AS PLANNED	AS COLLECTED
DATE COLLECTED(MM/DD/YYYY):	01/13/2010	MEDIA:	NA
TIME COLLECTED (HH:MM)	0820	SUB-MEDIA:	OTHER
PRS ID: 15-014(h)	ok	SAMPLE TECH CODE:	DC
LOCATION ID: UNK	15-610503	FIELD QC TYPE:	ETB
LOCATION TYPE: GENERIC	ok	FIELD PREP:	NA
TOP DEPTH: 0	↓	SAMPLE USAGE:	QC
BOTTOM DEPTH: 0	↓	SCREEN/PORT DESC:	NA
FIELD MATRIX: 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 2 01/13/10	Normal	8260B Trip Blank	40 ML SEPTUM AMBER GLASS	Ice	Y	

SAMPLE DESC: QC Sample of RE15-10-7164

SAMPLE COMMENTS:

LOCATION DESC: ETB

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

TLMC Farlane

REVIEWED BY (PRINT)

R. Saunders

RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name) JON MARIN	1/14/10	(Printed Name) Jennifer Herwood	1/14/10
(Signature) Jon R. Marin	7:49	(Signature) Jennifer Herwood	7:49
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time
(Printed Name)		(Printed Name)	
(Signature)		(Signature)	

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7228

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:	NA		
TIME COLLECTED (HH:MM)		1520		SUB-MEDIA:	OTHER		OK
PRS ID:	15-014(h)	OK		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	15-00516		FIELD QC TYPE:	ER		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	UF		
TOP DEPTH:	0	1.0		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	2.0		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	W			EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	METALS+U-GEL	1 LITER POLY	Nitric Acid	Yes	
1		SW-846:6850	250 ML POLY	Ice	Yes	
1		TCN	500 ML POLY	Sodium Hydroxide	Yes	

SAMPLE DESC: QC Sample of RE15-10-7191

SAMPLE COMMENTS: 73m 1/13/10
NA Rinsate

LOCATION DESC: 14h-23 drainage

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) MARIN (Signature) Jan R. Marin	Date/Time 1/14/10 7:57	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 1/14/10 7:57
RELINQUISHED BY (Printed Name) (Signature) Jan R. Marin	Date/Time 1/14/10 11:10	RECEIVED BY (Printed Name) MARIN (Signature) Jan R. Marin	Date/Time 1/14/10 11:00

Marin
Jan R. Marin
1/14/10
11:47

1/14/10
11:47

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7227

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:	NA		OK
TIME COLLECTED (HH:MM)		15:53		SUB-MEDIA:	OTHER		
PRS ID:	15-014(h)	OK		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK 15-610519	OK 1/14/10		FIELD QC TYPE:	ER		
LOCATION TYPE:	GENERIC			FIELD PREP:	UF		
TOP DEPTH:	0			SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0			SCREEN/PORT DESC:			
FIELD MATRIX:	W			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	METALS+U-GEL	1 LITER POLY	Nitric Acid	Y	
1		SW-846:6850	250 ML POLY	Ice	Y	
1		TCN	500 ML POLY	Sodium Hydroxide	Y	

SAMPLE DESC: QC Sample of RE-15-10-7196

SAMPLE COMMENTS: Rinse

LOCATION DESC: 14h-25

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

C. Lopez

REVIEWED BY (PRINT)

JOA MARIN

RELINQUISHED BY (Printed Name) MARIN (Signature) Jan R. Marin	Date/Time 1/17/10 8:38	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 1/14/10 8:38
RELINQUISHED BY (Printed Name) [Signature] (Signature) [Signature]	Date/Time 1/14/10 11:00	RECEIVED BY (Printed Name) MARIN (Signature) Jan R. Marin	Date/Time 1/14/10 11:02

marin
Jan R. Marin

1/14/10
11:47

[Signature]
[Signature]

1/14/10
11:47

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2479

EVENT NAME: 4th Qtr. FY09 - AOC 15-014(h) - Threemile Canyon

SAMPLE ID: RE15-10-7224

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		01/13/2010		MEDIA:	NA		OK
TIME COLLECTED (HH:MM)		1110		SUB-MEDIA:	OTHER		
PRS ID:	15-014(h)	OK		SAMPLE TECH CODE:	DC		
LOCATION ID:	UNK	15-610505		FIELD QC TYPE:	FR		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	UF		
TOP DEPTH:	0	OK		SAMPLE USAGE:	QC		✓
BOTTOM DEPTH:	0	OK		SCREEN/PORT DESC:		NA	
FIELD MATRIX:	W	OK		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	METALS+U-GEL	1 LITER POLY	Nitric Acid	Yes	
1		SW-846:6850	250 ML POLY	Ice	Yes	
1	↓	TCN	500 ML POLY	Sodium Hydroxide	Yes	

SAMPLE DESC: QC Sample of RE15-10-7169

SAMPLE COMMENTS: RS 01-13-10 12m 11/13/10
Rinsate water Rinsate

LOCATION DESC: 14h-12

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

Larry A. Lopez

RELINQUISHED BY (Printed Name) MARIN (Signature) Jan R. Marin	Date/Time 1/14/10 7:50	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 1/14/10 7:50
RELINQUISHED BY (Printed Name) Jayles (Signature) Jayles	Date/Time 1/14/10 1100	RECEIVED BY (Printed Name) MARIN (Signature) Jan R. Marin	Date/Time 1/14/10 11:02

MARIN
Jan R. Marin
1/14/10
11:47MARIN
1/14/10
1147

DATA VALIDATION COVER SHEET

5121-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1303 VALIDATION DATE: 02/23/10 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 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):

1. It should be noted that the water MS/MSD analyses were performed on a LANL sample from another RN, and the parent sample raw data was not included in the data package. No sample data were qualified.


Reviewed by: Mary DonovanLevel: IDate: 02/25/10

VALIDATOR'S SIGNATURE: _____


Kevin A. LambertDATE: 02/23/10

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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The MS/MSD percent recovery was >10% but <75%	UJ, PERC12e	J, PERC12e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The MS/MSD percent recovery was >125%.	N/A	J+, PERC12f

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

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC Client Sample No. RE15-10-7194

Lab Code: GEL Date Received: 20-JAN-10

Instrument: LCMSMS GEL Job No (SDG): 10-1303

Method: SW846 6850 Modified GEL Sample ID: 245136001

Matrix: SOIL Date Filtered: 27-JAN-10

Extraction Batch ID: 945197 Injection Volume (uL): 20

Extraction Type: Solid Prep %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	.63	2.52	0.630	ug/kg	U	1	28-JAN-10 17:08	per0128023a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:08	per0128023a
14797-73-0	Perchlorate-101	.63	2.52	0.630	ug/kg	U	1	28-JAN-10 17:08	per0128023a
	Perchlorate-O(18)			6.45	ug/kg		1	28-JAN-10 17:08	per0128023a

[^] 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: 245197

Extraction Type: Solid Prep

Client Sample No.

RE15-10-7186

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136002

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 81

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	.614	2.46	0.614	ug/kg	U	1	28-JAN-10 17:33	per0128026a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:33	per0128026a
14797-73-0	Perchlorate-101	.614	2.46	0.614	ug/kg	U	1	28-JAN-10 17:33	per0128026a
	Perchlorate-O(18)			5.98	ug/kg		1	28-JAN-10 17:33	per0128026a

[^] 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: 945197
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7191
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303
 GEL Sample ID: 245136003
 Date Filtered: 27-JAN-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	.585	2.34	0.585	ug/kg	U	1	28-JAN-10 17:41	per0128027a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:41	per0128027a
14797-73-0	Perchlorate-101	.585	2.34	0.585	ug/kg	U	1	28-JAN-10 17:41	per0128027a
	Perchlorate-O(18)			6.54	ug/kg		1	28-JAN-10 17:41	per0128027a

[^] 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: 945197
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7195
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303
 GEL Sample ID: 245136004
 Date Filtered: 27-JAN-10
 Injection Volume (uL): 20
 %Solids: 90

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.556	2.22	0.556	ug/kg	U	1	28-JAN-10 17:49	per0128028a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:49	per0128028a
14797-73-0	Perchlorate-101	.556	2.22	0.556	ug/kg	U	1	28-JAN-10 17:49	per0128028a
	Perchlorate-O(18)			6.38	ug/kg		1	28-JAN-10 17:49	per0128028a

[^] 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: 945197
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7196
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303
 GEL Sample ID: 245136005
 Date Filtered: 27-JAN-10
 Injection Volume (uL): 20
 %Solids: 76

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.655	2.62	0.655	ug/kg	U	1	28-JAN-10 17:57	per0128029a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:57	per0128029a
14797-73-0	Perchlorate-101	.655	2.62	0.655	ug/kg	U	1	28-JAN-10 17:57	per0128029a
	Perchlorate-O(18)			6.55	ug/kg		1	28-JAN-10 17:57	per0128029a

[^] 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: 245197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7197

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136006

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 86

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.584	2.34	0.584	ug/kg	U	1	28-JAN-10 18:05	per0128030a
	Perchlorate Isotope Ratio						1	28-JAN-10 18:05	per0128030a
14797-73-0	Perchlorate-101	.584	2.34	0.584	ug/kg	U	1	28-JAN-10 18:05	per0128030a
	Perchlorate-O(18)			6.08	ug/kg		1	28-JAN-10 18:05	per0128030a

[^] 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: 945197
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7193
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303
 GEL Sample ID: 245136007
 Date Filtered: 27-JAN-10
 Injection Volume (uL): 20
 %Solids: 81

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.617	2.47	0.617	ug/kg	U	1	28-JAN-10 18:13	per0128031a
	Perchlorate Isotope Ratio						1	28-JAN-10 18:13	per0128031a
14797-73-0	Perchlorate-101	.617	2.47	0.617	ug/kg	U	1	28-JAN-10 18:13	per0128031a
	Perchlorate-O(18)			6.67	ug/kg		1	28-JAN-10 18:13	per0128031a

[^] 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: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7189

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136008

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 90.8

CAS No.	Analyte [^]	MDL	RL	Conc.*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.551	2.2	0.646	ug/kg	J	1	28-JAN-10 18:21	per0128032a
	Perchlorate Isotope Ratio			3.01			1	28-JAN-10 18:21	per0128032a
14797-73-0	Perchlorate-101	.551	2.2	0.626	ug/kg	J	1	28-JAN-10 18:21	per0128032a
	Perchlorate-O(18)			5.93	ug/kg		1	28-JAN-10 18:21	per0128032a

[^] 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: 245197
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7187
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303
 GEL Sample ID: 245136009
 Date Filtered: 27-JAN-10
 Injection Volume (uL): 20
 %Solids: 90.7

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.552	2.21	0.552	ug/kg	U	1	28-JAN-10 18:53	per0128036a
	Perchlorate Isotope Ratio						1	28-JAN-10 18:53	per0128036a
14797-73-0	Perchlorate-101	.552	2.21	0.552	ug/kg	U	1	28-JAN-10 18:53	per0128036a
	Perchlorate-O(18)			5.57	ug/kg		1	28-JAN-10 18:53	per0128036a

[^] 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: 245197

Extraction Type: Solid Prep

Client Sample No.

RE15-10-7188

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136010

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 88

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	.571	2.28	0.889	ug/kg	J	1	28-JAN-10 19:01	per0128037a
	Perchlorate Isotope Ratio			2.96			1	28-JAN-10 19:01	per0128037a
14797-73-0	Perchlorate-101	.571	2.28	0.879	ug/kg	J	1	28-JAN-10 19:01	per0128037a
	Perchlorate-O(18)			6.07	ug/kg		1	28-JAN-10 19:01	per0128037a

[^] 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 quantization 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: 945197

Extraction Type: Solid Prep

Client Sample No.

RE15-10-7190

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136011

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 72

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	.698	2.79	0.698	ug/kg	U	1	28-JAN-10 19:09	per0128038a
	Perchlorate Isotope Ratio						1	28-JAN-10 19:09	per0128038a
14797-73-0	Perchlorate-101	.698	2.79	0.698	ug/kg	U	1	28-JAN-10 19:09	per0128038a
	Perchlorate-O(18)			7.33	ug/kg		1	28-JAN-10 19:09	per0128038a

[^] 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: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7192

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136012

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 66

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.762	3.05	0.762	ug/kg	U	1	28-JAN-10 19:17	per0128039a
	Perchlorate Isotope Ratio						1	28-JAN-10 19:17	per0128039a
14797-73-0	Perchlorate-101	.762	3.05	0.762	ug/kg	U	1	28-JAN-10 19:17	per0128039a
	Perchlorate-O(18)			7.90	ug/kg		1	28-JAN-10 19:17	per0128039a

[^] 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: 245197
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7219
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303
 GEL Sample ID: 245136013
 Date Filtered: 27-JAN-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	.651	2.6	0.651	ug/kg	U	1	28-JAN-10 19:25	per0128040a
	Perchlorate Isotope Ratio						1	28-JAN-10 19:25	per0128040a
14797-73-0	Perchlorate-101	.651	2.6	0.651	ug/kg	U	1	28-JAN-10 19:25	per0128040a
	Perchlorate-O(18)			6.58	ug/kg		1	28-JAN-10 19:25	per0128040a

[^] 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 Client Sample No. RE15-10-7228

Lab Code: GEL Date Received: 20-JAN-10

Instrument: LCMSMS GEL Job No (SDG): 10-1303-1

Method: SW846 6850 Modified GEL Sample ID: 245137001

Matrix: WATER Date Filtered: 27-JAN-10

Extraction Batch ID: 245221 Injection Volume (uL): 20

Extraction Type: Filter/DAI %Solids:

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:29	per0127056a
	Perchlorate Isotope Ratio						1	28-JAN-10 02:29	per0127056a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:29	per0127056a
	Perchlorate-O(18)			0.487	ug/L		1	28-JAN-10 02:29	per0127056a

[^] 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: WATER

Extraction Batch ID: 945221

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

RE15-10-7224

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303-1

GEL Sample ID: 245137002

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:37	per0127057a
	Perchlorate Isotope Ratio						1	28-JAN-10 02:37	per0127057a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:37	per0127057a
	Perchlorate-O(18)			0.473	ug/L		1	28-JAN-10 02:37	per0127057a

[^] 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: WATER
 Extraction Batch ID: 945221
 Extraction Type: Filter/DAI
 Client Sample No. RE15-10-7227
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303-1
 GEL Sample ID: 245137003
 Date Filtered: 27-JAN-10
 Injection Volume (uL): 20

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0


%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:45	per0127058a
	Perchlorate Isotope Ratio						1	28-JAN-10 02:45	per0127058a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:45	per0127058a
	Perchlorate-O(18)			0.485	ug/L		1	28-JAN-10 02:45	per0127058a

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


*Concentration =


Instrument Value X Concentrated Extract Volume X 1 %Solids
 Aliquot

DATA VALIDATION COVER SHEET	
5118-1 <p style="text-align: center;">Data Validation Cover Sheet</p>	Records Use only 


Section I.			
REQUEST NUMBER: <u>10-1303</u>	VALIDATION DATE: <u>02/24/10</u>	LAB CODE: <u>GEL</u>	
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>			
VALIDATOR: <u>Kevin A. Lambert</u>		ORGANIZATION: <u>Analytical Quality Associates, Inc.</u>	
ANALYTICAL SUITE (CHECK ALL THAT APPLY):			
<input type="checkbox"/> TPH-GRO	<input type="checkbox"/> HIGH EXPLOSIVES	<input type="checkbox"/> DIOXIN FURANS	<input type="checkbox"/> LCMSMS PERCHLORATES
<input type="checkbox"/> TPH-DRO	<input checked="" type="checkbox"/> METALS	<input type="checkbox"/> PCB CONGENERS	<input type="checkbox"/> ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES	
<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):							
<ol style="list-style-type: none"> 1. In the water MB, Se was detected. The associated sample results were NDs and, thus, were not qualified. 2. In the soil ICB/CCB, Sb, As, and U were detected. The Sb results for samples RE15-10-7197 and -7193 and, all associated As results were detects $\leq 5X$ the greatest ICB/CCB concentration and, thus, were qualified U,I4b. All other associated sample results were either NDs or detects $> 5X$ the greatest ICB/CCB concentration and, thus, were not qualified. 3. In the FR blanks, samples -7224, -7227 and -7228, associated with all field samples, Cr, Fe, Mn, and K were detected. All associated sample results were detects $> 5X$ the greatest FR blank concentrations and, thus, were not qualified. 4. The soil MS %Rs for Al, Fe, Mg, and K were $>$ the laboratory UAL. However, the associated parent sample concentrations for Al and Fe were $> 4X$ the spike concentrations. Thus, no sample data were qualified as result, based on professional judgment. All other associated sample results were detects and, thus, were qualified J+,I6b. 5. It should be noted that the parent sample for the water matrix QC analyses were performed on a LANL sample from another RN, and the parent sample raw data were not included in the data package. No sample data were qualified. 							
Reviewed by: <u>Mary Donovan</u>				Level: <u>I</u>		Date: <u>02/25/10</u>	


DATA VALIDATION COVER SHEET	
5118-1	Records Use only
Data Validation Cover Sheet	 Los Alamos NATIONAL LABORATORY EST. 1942
VALIDATOR'S SIGNATURE: <u>Kevin A. Lambert</u> DATE: <u>02/24/10</u>	
Form 5118-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

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


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

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

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. Metals interference check sample percent recovery value is $\geq 50\%$ and $< 80\%$	UJ, I2a	J-, I2a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. Metals interference check sample percent recovery value is $> 120\%$.	N/A	J+, I2b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Metals interference check sample was not analyzed with the samples.	R, I2c	R, I2c
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, I4	N/A
<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18. The sample result is $\leq 5X$ the concentration of the related analyte in the instrument blank and continuing calibration blank.	U, I4b	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Continuing calibration blanks were not analyzed at the appropriate method frequency.	UJ, I4c	J, I4c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	U, I4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, I4e	R, I4e
<input 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				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				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: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136001

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7194

LEVEL: Low

DATE RECEIVED 20-JAN-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	6410000	ug/Kg		8130	23900	23900	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-36-0	Antimony	1200	ug/Kg	U	395	1200	1200	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-38-2	Arsenic U,14b	1.87	mg/kg		0.246	1.23	1.23	2	MS	RMJ	02/14/10 06:24	100213-2	944114
7440-39-3	Barium	91100	ug/Kg	N	120	598	598	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-41-7	Beryllium	0.781	mg/kg		0.0246	0.123	0.123	2	MS	RMJ	02/14/10 06:24	100213-2	944114
7440-43-9	Cadmium	598	ug/Kg	U	120	598	598	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-70-2	Calcium	1450000	ug/Kg		9570	29900	29900	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-47-3	Chromium	8920	ug/Kg		179	598	598	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-48-4	Cobalt	3260	ug/Kg		179	598	598	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-50-8	Copper	5360	ug/Kg		359	1200	1200	1	P	HSC	02/03/10 21:28	020310-1	944111
7439-89-6	Iron	10700000	ug/Kg		9570	29900	29900	1	P	HSC	02/03/10 21:28	020310-1	944111
7439-92-1	Lead	11300	ug/Kg		299	1200	1200	1	P	HSC	02/03/10 21:28	020310-1	944111
7439-95-4	Magnesium J+,16b	1100000	ug/Kg	N	10200	35900	35900	1	P	HSC	02/03/10 21:28	020310-1	944111
7439-96-5	Manganese	262000	ug/Kg		239	1200	1200	1	P	HSC	02/03/10 21:28	020310-1	944111
7439-97-6	Mercury	14.8	ug/kg		4.39	12.9	12.9	1	AV	JXL1	02/04/10 10:40	020410S1-4	945445
7440-02-0	Nickel	6.35	mg/kg		0.123	0.491	0.491	2	MS	RMJ	02/14/10 06:24	100213-2	944114
7440-09-7	Potassium J+,16b	1100000	ug/Kg	N	7650	29900	29900	1	P	HSC	02/03/10 21:28	020310-1	944111
7782-49-2	Selenium	1.23	mg/kg	U	0.614	1.23	1.23	2	MS	RMJ	02/14/10 06:24	100213-2	944114
7440-22-4	Silver	574	ug/Kg	J	120	598	598	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-23-5	Sodium	75600	ug/Kg		8370	29900	29900	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-28-0	Thallium	0.183	mg/kg	J	0.0737	0.246	0.246	2	MS	RMJ	02/14/10 06:24	100213-2	944114
7440-61-1	Uranium	6.67	mg/kg	*N	0.0162	0.0491	0.0491	2	MS	RMJ	02/14/10 06:24	100213-2	944114
7440-62-2	Vanadium	18300	ug/Kg		120	598	598	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-66-6	Zinc	26100	ug/Kg		395	1200	1200	1	P	HSC	02/03/10 21:28	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.527	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.513	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.586	g	30	mL	02/03/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136002

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7186

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 81

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3840000	ug/Kg		7680	22600	22600	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-36-0	Antimony	1130	ug/Kg	U	373	1130	1130	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-38-2	Arsenic U,14b	1.59	mg/kg		0.23	1.15	1.15	2	MS	RMJ	02/14/10 06:53	100213-2	944114
7440-39-3	Barium	49100	ug/Kg	N	113	564	564	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-41-7	Beryllium	0.669	mg/kg		0.023	0.115	0.115	2	MS	RMJ	02/14/10 06:53	100213-2	944114
7440-43-9	Cadmium	564	ug/Kg	U	113	564	564	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-70-2	Calcium	839000	ug/Kg		9030	28200	28200	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-47-3	Chromium	4450	ug/Kg		169	564	564	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-48-4	Cobalt	2410	ug/Kg		169	564	564	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-50-8	Copper	3710	ug/Kg		339	1130	1130	1	P	HSC	02/03/10 22:04	020310-1	944111
7439-89-6	Iron	7860000	ug/Kg		9030	28200	28200	1	P	HSC	02/03/10 22:04	020310-1	944111
7439-92-1	Lead	8890	ug/Kg		282	1130	1130	1	P	HSC	02/03/10 22:04	020310-1	944111
7439-95-4	Magnesium J+,16b	829000	ug/Kg	N	9600	33900	33900	1	P	HSC	02/03/10 22:04	020310-1	944111
7439-96-5	Manganese	208000	ug/Kg		226	1130	1130	1	P	HSC	02/03/10 22:04	020310-1	944111
7439-97-6	Mercury	24.1	ug/kg		4.93	14.5	14.5	1	AV	JXL1	02/04/10 10:49	020410S1-4	945445
7440-02-0	Nickel	5.22	mg/kg		0.115	0.46	0.46	2	MS	RMJ	02/14/10 06:53	100213-2	944114
7440-09-7	Potassium J+,16b	699000	ug/Kg	N	7220	28200	28200	1	P	HSC	02/03/10 22:04	020310-1	944111
7782-49-2	Selenium	1.15	mg/kg	U	0.575	1.15	1.15	2	MS	RMJ	02/14/10 06:53	100213-2	944114
7440-22-4	Silver	638	ug/Kg		113	564	564	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-23-5	Sodium	57100	ug/Kg		7900	28200	28200	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-28-0	Thallium	0.173	mg/kg	J	0.069	0.23	0.23	2	MS	RMJ	02/14/10 06:53	100213-2	944114
7440-61-1	Uranium	1.33	mg/kg	*N	0.0152	0.046	0.046	2	MS	RMJ	02/14/10 06:53	100213-2	944114
7440-62-2	Vanadium	11300	ug/Kg		113	564	564	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-66-6	Zinc	22400	ug/Kg		373	1130	1130	1	P	HSC	02/03/10 22:04	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.544	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.534	g	50	mL	01/28/10	FCA
945445	945443	SW846 7471A Prep	0.508	g	30	mL	02/03/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136003

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7191

LEVEL: Low

DATE RECEIVED 20-JAN-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	8220000	ug/Kg		7600	22300	22300	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-36-0	Antimony	1120	ug/Kg	U	369	1120	1120	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-38-2	Arsenic U,14b	1.93	mg/kg		0.229	1.15	1.15	2	MS	RMJ	02/14/10 06:59	100213-2	944114
7440-39-3	Barium	55400	ug/Kg	N	112	559	559	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-41-7	Beryllium	1.33	mg/kg		0.0229	0.115	0.115	2	MS	RMJ	02/14/10 06:59	100213-2	944114
7440-43-9	Cadmium	559	ug/Kg	U	112	559	559	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-70-2	Calcium	2030000	ug/Kg		8940	27900	27900	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-47-3	Chromium	7810	ug/Kg		168	559	559	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-48-4	Cobalt	1880	ug/Kg		168	559	559	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-50-8	Copper	6220	ug/Kg		335	1120	1120	1	P	HSC	02/03/10 22:11	020310-1	944111
7439-89-6	Iron	11800000	ug/Kg		8940	27900	27900	1	P	HSC	02/03/10 22:11	020310-1	944111
7439-92-1	Lead	7350	ug/Kg		279	1120	1120	1	P	HSC	02/03/10 22:11	020310-1	944111
7439-95-4	Magnesium J+,16b	1540000	ug/Kg	N	9500	33500	33500	1	P	HSC	02/03/10 22:11	020310-1	944111
7439-96-5	Manganese	180000	ug/Kg		223	1120	1120	1	P	HSC	02/03/10 22:11	020310-1	944111
7439-97-6	Mercury	17.8	ug/kg		4.52	13.3	13.3	1	AV	JXL	02/04/10 10:51	020410S1-4	945445
7440-02-0	Nickel	6.93	mg/kg		0.115	0.458	0.458	2	MS	RMJ	02/14/10 06:59	100213-2	944114
7440-09-7	Potassium J+,16b	1220000	ug/Kg	N	7150	27900	27900	1	P	HSC	02/03/10 22:11	020310-1	944111
7782-49-2	Selenium	1.15	mg/kg	U	0.573	1.15	1.15	2	MS	RMJ	02/14/10 06:59	100213-2	944114
7440-22-4	Silver	431	ug/Kg	J	112	559	559	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-23-5	Sodium	65500	ug/Kg		7820	27900	27900	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-28-0	Thallium	0.155	mg/kg	J	0.0687	0.229	0.229	2	MS	RMJ	02/14/10 06:59	100213-2	944114
7440-61-1	Uranium	1.07	mg/kg	*N	0.0151	0.0458	0.0458	2	MS	RMJ	02/14/10 06:59	100213-2	944114
7440-62-2	Vanadium	13000	ug/Kg		112	559	559	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-66-6	Zinc	40700	ug/Kg		369	1120	1120	1	P	HSC	02/03/10 22:11	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.524	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.511	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.528	g	30	mL	02/03/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136004

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7195

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 90

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	8820000	ug/Kg		7260	21300	21300	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-38-0	Antimony	1070	ug/Kg	U	352	1070	1070	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-38-2	Arsenic U,14b	2.44	mg/kg		0.213	1.06	1.06	2	MS	RMJ	02/14/10 07:05	100213-2	944114
7440-39-3	Barium	86200	ug/Kg	N	107	533	533	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-41-7	Beryllium	1.17	mg/kg		0.0213	0.106	0.106	2	MS	RMJ	02/14/10 07:05	100213-2	944114
7440-43-9	Cadmium	533	ug/Kg	U	107	533	533	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-70-2	Calcium	1800000	ug/Kg		8540	26700	26700	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-47-3	Chromium	14000	ug/Kg		160	533	533	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-48-4	Cobalt	3510	ug/Kg		160	533	533	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-50-8	Copper	5560	ug/Kg		320	1070	1070	1	P	HSC	02/03/10 22:32	020310-1	944111
7439-89-6	Iron	15100000	ug/Kg		8540	26700	26700	1	P	HSC	02/03/10 22:32	020310-1	944111
7439-92-1	Lead	8260	ug/Kg		267	1070	1070	1	P	HSC	02/03/10 22:32	020310-1	944111
7439-95-4	Magnesium J+,16b	1600000	ug/Kg	N	9070	32000	32000	1	P	HSC	02/03/10 22:32	020310-1	944111
7439-96-5	Manganese	261000	ug/Kg		213	1070	1070	1	P	HSC	02/03/10 22:32	020310-1	944111
7439-97-6	Mercury	13.5	ug/kg		4.21	12.4	12.4	1	AV	JXL1	02/04/10 10:53	020410S1-4	945445
7440-02-0	Nickel	7.67	mg/kg		0.106	0.426	0.426	2	MS	RMJ	02/14/10 07:05	100213-2	944114
7440-09-7	Potassium J+,16b	1500000	ug/Kg	N	6830	26700	26700	1	P	HSC	02/03/10 22:32	020310-1	944111
7782-49-2	Selenium	1.06	mg/kg	U	0.532	1.06	1.06	2	MS	RMJ	02/14/10 07:05	100213-2	944114
7440-22-4	Silver	558	ug/Kg		107	533	533	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-23-5	Sodium	121000	ug/Kg		7470	26700	26700	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-28-0	Thallium	0.199	mg/kg	J	0.0639	0.213	0.213	2	MS	RMJ	02/14/10 07:05	100213-2	944114
7440-61-1	Uranium	1.05	mg/kg	*N	0.0141	0.0426	0.0426	2	MS	RMJ	02/14/10 07:05	100213-2	944114
7440-62-2	Vanadium	25000	ug/Kg		107	533	533	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-66-6	Zinc	36400	ug/Kg		352	1070	1070	1	P	HSC	02/03/10 22:32	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.521	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.522	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.539	g	30	mL	02/03/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136005

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7196

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 76

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6100000	ug/Kg		8130	23900	23900	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-36-0	Antimony	1200	ug/Kg	U	394	1200	1200	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-38-2	Arsenic U,14b	1.67	mg/kg		0.236	1.18	1.18	2	MS	RMJ	02/14/10 07:23	100213-2	944114
7440-39-3	Barium	116000	ug/Kg	N	120	598	598	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-41-7	Beryllium	0.606	mg/kg		0.0236	0.118	0.118	2	MS	RMJ	02/14/10 07:23	100213-2	944114
7440-43-9	Cadmium	598	ug/Kg	U	120	598	598	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-70-2	Calcium	1440000	ug/Kg		9560	29900	29900	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-47-3	Chromium	9300	ug/Kg		179	598	598	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-48-4	Cobalt	6830	ug/Kg		179	598	598	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-50-8	Copper	5540	ug/Kg		359	1200	1200	1	P	HSC	02/03/10 22:39	020310-1	944111
7439-89-6	Iron	11800000	ug/Kg		9560	29900	29900	1	P	HSC	02/03/10 22:39	020310-1	944111
7439-92-1	Lead	15700	ug/Kg		299	1200	1200	1	P	HSC	02/03/10 22:39	020310-1	944111
7439-95-4	Magnesium J+,16b	1090000	ug/Kg	N	10200	35900	35900	1	P	HSC	02/03/10 22:39	020310-1	944111
7439-96-5	Manganese	610000	ug/Kg		239	1200	1200	1	P	HSC	02/03/10 22:39	020310-1	944111
7439-97-6	Mercury	28.8	ug/kg		5.12	15.1	15.1	1	AV	JXL	02/04/10 10:55	020410S1-4	945445
7440-02-0	Nickel	3.81	mg/kg		0.118	0.471	0.471	2	MS	RMJ	02/14/10 07:23	100213-2	944114
7440-09-7	Potassium J+,16b	1070000	ug/Kg	N	7650	29900	29900	1	P	HSC	02/03/10 22:39	020310-1	944111
7782-49-2	Selenium	1.18	mg/kg	U	0.589	1.18	1.18	2	MS	RMJ	02/14/10 07:23	100213-2	944114
7440-22-4	Silver	550	ug/Kg	J	120	598	598	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-23-5	Sodium	79500	ug/Kg		8370	29900	29900	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-28-0	Thallium	0.119	mg/kg	J	0.0707	0.236	0.236	2	MS	RMJ	02/14/10 07:23	100213-2	944114
7440-61-1	Uranium	3.42	mg/kg	*N	0.0156	0.0471	0.0471	2	MS	RMJ	02/16/10 05:47	100215-3	944114
7440-62-2	Vanadium	20500	ug/Kg		120	598	598	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-66-6	Zinc	32900	ug/Kg		394	1200	1200	1	P	HSC	02/03/10 22:39	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.548	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.556	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.522	g	30	mL	02/03/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136006

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7197

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4240000	ug/Kg		7900	23200	23200	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-36-0	Antimony U,14b	939	ug/Kg	J	383	1160	1160	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-38-2	Arsenic U,14b	1.45	mg/kg		0.224	1.12	1.12	2	MS	RMJ	02/14/10 07:29	100213-2	944114
7440-39-3	Barium	46500	ug/Kg	N	116	581	581	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-41-7	Beryllium	0.770	mg/kg		0.0224	0.112	0.112	2	MS	RMJ	02/14/10 07:29	100213-2	944114
7440-43-9	Cadmium	581	ug/Kg	U	116	581	581	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-70-2	Calcium	1050000	ug/Kg		9290	29000	29000	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-47-3	Chromium	43300	ug/Kg		174	581	581	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-48-4	Cobalt	1790	ug/Kg		174	581	581	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-50-8	Copper	3720	ug/Kg		349	1160	1160	1	P	HSC	02/03/10 22:46	020310-1	944111
7439-89-6	Iron	9940000	ug/Kg		9290	29000	29000	1	P	HSC	02/03/10 22:46	020310-1	944111
7439-92-1	Lead	6650	ug/Kg		290	1160	1160	1	P	HSC	02/03/10 22:46	020310-1	944111
7439-95-4	Magnesium J+,16b	697000	ug/Kg	N	9880	34900	34900	1	P	HSC	02/03/10 22:46	020310-1	944111
7439-96-5	Manganese	270000	ug/Kg		232	1160	1160	1	P	HSC	02/03/10 22:46	020310-1	944111
7439-97-6	Mercury	9.04	ug/kg	J	4.36	12.8	12.8	1	AV	JXL1	02/04/10 10:57	020410S1-4	945445
7440-02-0	Nickel	5.62	mg/kg		0.112	0.449	0.449	2	MS	RMJ	02/14/10 07:29	100213-2	944114
7440-09-7	Potassium J+,16b	625000	ug/Kg	N	7440	29000	29000	1	P	HSC	02/03/10 22:46	020310-1	944111
7782-49-2	Selenium	1.12	mg/kg	U	0.581	1.12	1.12	2	MS	RMJ	02/14/10 07:29	100213-2	944114
7440-22-4	Silver	514	ug/Kg	J	116	581	581	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-23-5	Sodium	133000	ug/Kg		8130	29000	29000	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-28-0	Thallium	0.115	mg/kg	J	0.0673	0.224	0.224	2	MS	RMJ	02/14/10 07:29	100213-2	944114
7440-61-1	Uranium	0.817	mg/kg	*N	0.0148	0.0449	0.0449	2	MS	RMJ	02/16/10 05:50	100215-3	944114
7440-62-2	Vanadium	10800	ug/Kg		116	581	581	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-66-6	Zinc	34400	ug/Kg		383	1160	1160	1	P	HSC	02/03/10 22:46	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.503	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.521	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.547	g	30	mL	02/03/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136007

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7193

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 81

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6280000	ug/Kg		8030	23600	23600	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-36-0	Antimony U,14b	608	ug/Kg	J	389	1180	1180	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-38-2	Arsenic U,14b	3.18	mg/kg		0.236	1.18	1.18	2	MS	RMJ	02/14/10 07:34	100213-2	944114
7440-39-3	Barium	87800	ug/Kg	N	118	590	590	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-41-7	Beryllium	1.08	mg/kg		0.0236	0.118	0.118	2	MS	RMJ	02/14/10 07:34	100213-2	944114
7440-43-9	Cadmium	590	ug/Kg	U	118	590	590	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-70-2	Calcium	1380000	ug/Kg		9440	29500	29500	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-47-3	Chromium	27900	ug/Kg		177	590	590	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-48-4	Cobalt	4180	ug/Kg		177	590	590	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-50-8	Copper	5840	ug/Kg		354	1180	1180	1	P	HSC	02/03/10 22:53	020310-1	944111
7439-89-6	Iron	13700000	ug/Kg		9440	29500	29500	1	P	HSC	02/03/10 22:53	020310-1	944111
7439-92-1	Lead	13000	ug/Kg		295	1180	1180	1	P	HSC	02/03/10 22:53	020310-1	944111
7439-95-4	Magnesium J+,16b	1150000	ug/Kg	N	10000	35400	35400	1	P	HSC	02/03/10 22:53	020310-1	944111
7439-96-5	Manganese	343000	ug/Kg		236	1180	1180	1	P	HSC	02/03/10 22:53	020310-1	944111
7439-97-6	Mercury	14.9	ug/kg		4.69	13.8	13.8	1	AV	JXL1	02/04/10 11:03	020410S1-4	945445
7440-02-0	Nickel	8.37	mg/kg		0.118	0.472	0.472	2	MS	RMJ	02/14/10 07:34	100213-2	944114
7440-09-7	Potassium J+,16b	1020000	ug/Kg	N	7550	29500	29500	1	P	HSC	02/03/10 22:53	020310-1	944111
7782-49-2	Selenium	1.18	mg/kg	U	0.59	1.18	1.18	2	MS	RMJ	02/14/10 07:34	100213-2	944114
7440-22-4	Silver	1830	ug/Kg		118	590	590	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-23-5	Sodium	86800	ug/Kg		8260	29500	29500	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-28-0	Thallium	0.187	mg/kg	J	0.0708	0.236	0.236	2	MS	RMJ	02/14/10 07:34	100213-2	944114
7440-61-1	Uranium	2.67	mg/kg	*N	0.0156	0.0472	0.0472	2	MS	RMJ	02/16/10 05:53	100215-3	944114
7440-62-2	Vanadium	22300	ug/Kg		118	590	590	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-66-6	Zinc	40400	ug/Kg		389	1180	1180	1	P	HSC	02/03/10 22:53	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.523	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.523	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.537	g	30	mL	02/03/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136008

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7189

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 90.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	11100000	ug/Kg		7430	21900	21900	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-38-0	Antimony	1090	ug/Kg	U	361	1090	1090	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-38-2	Arsenic U,14b	2.6	mg/kg		0.215	1.08	1.08	2	MS	RMJ	02/14/10 07:40	100213-2	944114
7440-39-3	Barium	130000	ug/Kg	N	109	546	546	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-41-7	Beryllium	1.26	mg/kg		0.0215	0.108	0.108	2	MS	RMJ	02/14/10 07:40	100213-2	944114
7440-43-9	Cadmium	546	ug/Kg	U	109	546	546	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-70-2	Calcium	2140000	ug/Kg		8740	27300	27300	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-47-3	Chromium	11600	ug/Kg		164	546	546	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-48-4	Cobalt	4310	ug/Kg		164	546	546	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-50-8	Copper	6850	ug/Kg		328	1090	1090	1	P	HSC	02/03/10 23:00	020310-1	944111
7439-89-6	Iron	14600000	ug/Kg		8740	27300	27300	1	P	HSC	02/03/10 23:00	020310-1	944111
7439-92-1	Lead	12200	ug/Kg		273	1090	1090	1	P	HSC	02/03/10 23:00	020310-1	944111
7439-95-4	Magnesium J+,16b	1890000	ug/Kg	N	9290	32800	32800	1	P	HSC	02/03/10 23:00	020310-1	944111
7439-96-5	Manganese	257000	ug/Kg		219	1090	1090	1	P	HSC	02/03/10 23:00	020310-1	944111
7439-97-6	Mercury	37.6	ug/kg		4.27	12.6	12.6	1	AV	JXL1	02/04/10 11:05	020410S1-4	945445
7440-02-0	Nickel	8.18	mg/kg		0.108	0.43	0.43	2	MS	RMJ	02/14/10 07:40	100213-2	944114
7440-09-7	Potassium J+,16b	1760000	ug/Kg	N	6990	27300	27300	1	P	HSC	02/03/10 23:00	020310-1	944111
7782-49-2	Selenium	1.08	mg/kg	U	0.538	1.08	1.08	2	MS	RMJ	02/14/10 07:40	100213-2	944114
7440-22-4	Silver	499	ug/Kg	J	109	546	546	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-23-5	Sodium	179000	ug/Kg		7650	27300	27300	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-28-0	Thallium	0.221	mg/kg		0.0646	0.215	0.215	2	MS	RMJ	02/14/10 07:40	100213-2	944114
7440-61-1	Uranium	1.13	mg/kg	*N	0.0142	0.043	0.043	2	MS	RMJ	02/16/10 05:57	100215-3	944114
7440-62-2	Vanadium	25500	ug/Kg		109	546	546	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-66-6	Zinc	34700	ug/Kg		361	1090	1090	1	P	HSC	02/03/10 23:00	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.504	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.512	g	50	mL	01/28/10	FCA
945445	945443	SW846 7471A Prep	0.526	g	30	mL	02/03/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136009

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7187

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 90.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9140000	ug/Kg		7380	21700	21700	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-36-0	Antimony	1090	ug/Kg	U	358	1090	1090	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-38-2	Arsenic U,14b	2.19	mg/kg		0.218	1.09	1.09	2	MS	RMJ	02/14/10 07:46	100213-2	944114
7440-39-3	Barium	118000	ug/Kg	N	109	543	543	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-41-7	Beryllium	0.983	mg/kg		0.0218	0.109	0.109	2	MS	RMJ	02/14/10 07:46	100213-2	944114
7440-43-9	Cadmium	543	ug/Kg	U	109	543	543	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-70-2	Calcium	2130000	ug/Kg		8690	27100	27100	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-47-3	Chromium	9460	ug/Kg		163	543	543	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-48-4	Cobalt	3640	ug/Kg		163	543	543	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-50-8	Copper	9020	ug/Kg		326	1090	1090	1	P	HSC	02/03/10 23:07	020310-1	944111
7439-89-6	Iron	10700000	ug/Kg		8690	27100	27100	1	P	HSC	02/03/10 23:07	020310-1	944111
7439-92-1	Lead	16600	ug/Kg		271	1090	1090	1	P	HSC	02/03/10 23:07	020310-1	944111
7439-95-4	Magnesium J+,16b	1620000	ug/Kg	N	9230	32600	32600	1	P	HSC	02/03/10 23:07	020310-1	944111
7439-96-5	Manganese	263000	ug/Kg		217	1090	1090	1	P	HSC	02/03/10 23:07	020310-1	944111
7439-97-6	Mercury	30.7	ug/kg		4.21	12.4	12.4	1	AV	JXL1	02/04/10 11:07	020410S1-4	945445
7440-02-0	Nickel	7.84	mg/kg		0.109	0.437	0.437	2	MS	RMJ	02/14/10 07:46	100213-2	944114
7440-09-7	Potassium J+,16b	1260000	ug/Kg	N	6950	27100	27100	1	P	HSC	02/03/10 23:07	020310-1	944111
7782-49-2	Selenium	1.09	mg/kg	U	0.546	1.09	1.09	2	MS	RMJ	02/14/10 07:46	100213-2	944114
7440-22-4	Silver	1080	ug/Kg		109	543	543	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-23-5	Sodium	110000	ug/Kg		7600	27100	27100	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-28-0	Thallium	0.225	mg/kg		0.0655	0.218	0.218	2	MS	RMJ	02/14/10 07:46	100213-2	944114
7440-61-1	Uranium	3.2	mg/kg	*N	0.0144	0.0437	0.0437	2	MS	RMJ	02/16/10 06:00	100215-3	944114
7440-62-2	Vanadium	18300	ug/Kg		109	543	543	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-66-6	Zinc	31600	ug/Kg		358	1090	1090	1	P	HSC	02/03/10 23:07	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.508	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.505	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.535	g	30	mL	02/03/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136010

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7188

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 88

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	12500000	ug/Kg		7400	21800	21800	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-36-0	Antimony	1090	ug/Kg	U	359	1090	1090	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-38-2	Arsenic	2.81	mg/kg		0.22	1.1	1.1	2	MS	RMJ	02/14/10 07:52	100213-2	944114
7440-39-3	Barium	162000	ug/Kg	N	109	544	544	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-41-7	Beryllium	1.31	mg/kg		0.022	0.11	0.11	2	MS	RMJ	02/14/10 07:52	100213-2	944114
7440-43-9	Cadmium	544	ug/Kg	U	109	544	544	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-70-2	Calcium	2740000	ug/Kg		8700	27200	27200	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-47-3	Chromium	12500	ug/Kg		163	544	544	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-48-4	Cobalt	5210	ug/Kg		163	544	544	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-50-8	Copper	10200	ug/Kg		326	1090	1090	1	P	HSC	02/03/10 23:14	020310-1	944111
7439-89-6	Iron	15000000	ug/Kg		8700	27200	27200	1	P	HSC	02/03/10 23:14	020310-1	944111
7439-92-1	Lead	32400	ug/Kg		272	1090	1090	1	P	HSC	02/03/10 23:14	020310-1	944111
7439-95-4	Magnesium	2240000	ug/Kg	N	9240	32600	32600	1	P	HSC	02/03/10 23:14	020310-1	944111
7439-96-5	Manganese	353000	ug/Kg		218	1090	1090	1	P	HSC	02/03/10 23:14	020310-1	944111
7439-97-6	Mercury	692	ug/kg		9.21	27.1	27.1	2	AV	JXL1	02/04/10 14:45	020410S1-4	945445
7440-02-0	Nickel	9.67	mg/kg		0.11	0.441	0.441	2	MS	RMJ	02/14/10 07:52	100213-2	944114
7440-09-7	Potassium	1670000	ug/Kg	N	6960	27200	27200	1	P	HSC	02/03/10 23:14	020310-1	944111
7782-49-2	Selenium	1.1	mg/kg	U	0.551	1.1	1.1	2	MS	RMJ	02/14/10 07:52	100213-2	944114
7440-22-4	Silver	547	ug/Kg		109	544	544	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-23-5	Sodium	97800	ug/Kg		7610	27200	27200	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-28-0	Thallium	0.278	mg/kg		0.0661	0.22	0.22	2	MS	RMJ	02/14/10 07:52	100213-2	944114
7440-61-1	Uranium	4.11	mg/kg	*N	0.0145	0.0441	0.0441	2	MS	RMJ	02/16/10 06:03	100215-3	944114
7440-62-2	Vanadium	29500	ug/Kg		109	544	544	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-66-6	Zinc	37200	ug/Kg		359	1090	1090	1	P	HSC	02/03/10 23:14	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.525	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.518	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.506	g	30	mL	02/03/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136011

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7190

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 72

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminium	9790000	ug/Kg		9050	26600	26600	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-36-0	Antimony	1330	ug/Kg	U	439	1330	1330	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-38-2	Arsenic U,14b	2.28	mg/kg		0.266	1.33	1.33	2	MS	RMJ	02/14/10 07:58	100213-2	944114
7440-39-3	Barium	149000	ug/Kg	N	133	666	666	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-41-7	Beryllium	1.14	mg/kg		0.0266	0.133	0.133	2	MS	RMJ	02/14/10 07:58	100213-2	944114
7440-43-9	Cadmium	666	ug/Kg	U	133	666	666	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-70-2	Calcium	3580000	ug/Kg		10700	33300	33300	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-47-3	Chromium	22200	ug/Kg		200	666	666	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-48-4	Cobalt	4820	ug/Kg		200	666	666	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-50-8	Copper	10000	ug/Kg		399	1330	1330	1	P	HSC	02/03/10 23:21	020310-1	944111
7439-89-6	Iron	12200000	ug/Kg		10700	33300	33300	1	P	HSC	02/03/10 23:21	020310-1	944111
7439-92-1	Lead	15100	ug/Kg		333	1330	1330	1	P	HSC	02/03/10 23:21	020310-1	944111
7439-95-4	Magnesium J+,16b	1800000	ug/Kg	N	11300	39900	39900	1	P	HSC	02/03/10 23:21	020310-1	944111
7439-96-5	Manganese	328000	ug/Kg		266	1330	1330	1	P	HSC	02/03/10 23:21	020310-1	944111
7439-97-6	Mercury	29.7	ug/kg		5.42	15.9	15.9	1	AV	JXL1	02/04/10 11:11	020410S1-4	945445
7440-02-0	Nickel	9.21	mg/kg		0.133	0.533	0.533	2	MS	RMJ	02/14/10 07:58	100213-2	944114
7440-09-7	Potassium J+,16b	1560000	ug/Kg	N	8520	33300	33300	1	P	HSC	02/03/10 23:21	020310-1	944111
7782-49-2	Selenium	1.33	mg/kg	U	0.666	1.33	1.33	2	MS	RMJ	02/14/10 07:58	100213-2	944114
7440-22-4	Silver	340	ug/Kg	J	133	666	666	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-23-5	Sodium	77800	ug/Kg		9320	33300	33300	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-28-0	Thallium	0.190	mg/kg	J	0.0799	0.266	0.266	2	MS	RMJ	02/14/10 07:58	100213-2	944114
7440-61-1	Uranium	4.85	mg/kg	*N	0.0176	0.0533	0.0533	2	MS	RMJ	02/16/10 06:06	100215-3	944114
7440-62-2	Vanadium	20000	ug/Kg		133	666	666	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-66-6	Zinc	34600	ug/Kg		439	1330	1330	1	P	HSC	02/03/10 23:21	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.524	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.524	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.525	g	30	mL	02/03/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136012

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7192

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 66

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	8370000	ug/Kg		9740	28600	28600	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-36-0	Antimony	1430	ug/Kg	U	473	1430	1430	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-38-2	Arsenic U,14b	2.92	mg/kg		0.301	1.5	1.5	2	MS	RMJ	02/14/10 08:04	100213-2	944114
7440-39-3	Barium	116000	ug/Kg	N	143	716	716	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-41-7	Beryllium	1.19	mg/kg		0.0301	0.15	0.15	2	MS	RMJ	02/14/10 08:04	100213-2	944114
7440-43-9	Cadmium	716	ug/Kg	U	143	716	716	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-70-2	Calcium	1890000	ug/Kg		11500	35800	35800	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-47-3	Chromium	9660	ug/Kg		215	716	716	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-48-4	Cobalt	3650	ug/Kg		215	716	716	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-50-8	Copper	7300	ug/Kg		430	1430	1430	1	P	HSC	02/03/10 23:28	020310-1	944111
7439-89-6	Iron	8920000	ug/Kg		11500	35800	35800	1	P	HSC	02/03/10 23:28	020310-1	944111
7439-92-1	Lead	16000	ug/Kg		358	1430	1430	1	P	HSC	02/03/10 23:28	020310-1	944111
7439-95-4	Magnesium J+,16b	1370000	ug/Kg	N	12200	43000	43000	1	P	HSC	02/03/10 23:28	020310-1	944111
7439-96-5	Manganese	267000	ug/Kg		286	1430	1430	1	P	HSC	02/03/10 23:28	020310-1	944111
7439-97-6	Mercury	27.6	ug/kg		6.21	18.3	18.3	1	AV	JXL1	02/04/10 11:13	020410S1-4	945445
7440-02-0	Nickel	8.85	mg/kg		0.15	0.601	0.601	2	MS	RMJ	02/14/10 08:04	100213-2	944114
7440-09-7	Potassium J+,16b	1300000	ug/Kg	N	9170	35800	35800	1	P	HSC	02/03/10 23:28	020310-1	944111
7782-49-2	Selenium	1.5	mg/kg	U	0.751	1.5	1.5	2	MS	RMJ	02/14/10 08:04	100213-2	944114
7440-22-4	Silver	1680	ug/Kg		143	716	716	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-23-5	Sodium	86700	ug/Kg		10000	35800	35800	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-28-0	Thallium	0.245	mg/kg	J	0.0902	0.301	0.301	2	MS	RMJ	02/14/10 08:04	100213-2	944114
7440-61-1	Uranium	5.93	mg/kg	*N	0.0198	0.0601	0.0601	2	MS	RMJ	02/16/10 06:09	100215-3	944114
7440-62-2	Vanadium	16700	ug/Kg		143	716	716	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-66-6	Zinc	21200	ug/Kg		473	1430	1430	1	P	HSC	02/03/10 23:28	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.532	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.507	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.501	g	30	mL	02/03/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136013

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7219

LEVEL: Low

DATE RECEIVED 20-JAN-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	10400000	ug/Kg		8150	24000	24000	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-36-0	Antimony	1200	ug/Kg	U	396	1200	1200	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-38-2	Arsenic U, 14b	2.32	mg/kg		0.244	1.22	1.22	2	MS	RMJ	02/14/10 08:10	100213-2	944114
7440-39-3	Barium	159000	ug/Kg	N	120	600	600	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-41-7	Beryllium	1.1	mg/kg		0.0244	0.122	0.122	2	MS	RMJ	02/14/10 08:10	100213-2	944114
7440-43-9	Cadmium	600	ug/Kg	U	120	600	600	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-70-2	Calcium	2990000	ug/Kg		9590	30000	30000	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-47-3	Chromium	10400	ug/Kg		180	600	600	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-48-4	Cobalt	4120	ug/Kg		180	600	600	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-50-8	Copper	9510	ug/Kg		360	1200	1200	1	P	HSC	02/03/10 23:35	020310-1	944111
7439-89-6	Iron	11800000	ug/Kg		9590	30000	30000	1	P	HSC	02/03/10 23:35	020310-1	944111
7439-92-1	Lead	19200	ug/Kg		300	1200	1200	1	P	HSC	02/03/10 23:35	020310-1	944111
7439-95-4	Magnesium J+, 16b	1790000	ug/Kg	N	10200	36000	36000	1	P	HSC	02/03/10 23:35	020310-1	944111
7439-96-5	Manganese	312000	ug/Kg		240	1200	1200	1	P	HSC	02/03/10 23:35	020310-1	944111
7439-97-6	Mercury	38	ug/kg		4.47	13.1	13.1	1	AV	JXL1	02/04/10 11:14	020410S1-4	945445
7440-02-0	Nickel	7.84	mg/kg		0.122	0.489	0.489	2	MS	RMJ	02/14/10 08:10	100213-2	944114
7440-09-7	Potassium J+, 16b	1810000	ug/Kg	N	7670	30000	30000	1	P	HSC	02/03/10 23:35	020310-1	944111
7782-49-2	Selenium	1.22	mg/kg	U	0.611	1.22	1.22	2	MS	RMJ	02/14/10 08:10	100213-2	944114
7440-22-4	Silver	1250	ug/Kg		120	600	600	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-23-5	Sodium	74400	ug/Kg		8390	30000	30000	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-28-0	Thallium	0.205	mg/kg	J	0.0733	0.244	0.244	2	MS	RMJ	02/14/10 08:10	100213-2	944114
7440-61-1	Uranium	6.7	mg/kg	*N	0.0161	0.0489	0.0489	2	MS	RMJ	02/16/10 06:12	100215-3	944114
7440-62-2	Vanadium	20900	ug/Kg		120	600	600	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-66-6	Zinc	26700	ug/Kg		396	1200	1200	1	P	HSC	02/03/10 23:35	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.543	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.533	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.595	g	30	mL	02/03/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245137001

BASIS: As Received

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7228

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	200	ug/L	U	68	200	200	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	01/29/10 21:59	100129-8	944080
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	01/30/10 13:50	100130-9	944080
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	01/29/10 21:59	100129-8	944080
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	01/29/10 15:55	012910-1	944077
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	01/29/10 15:55	012910-1	944077
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	01/29/10 21:59	100129-8	944080
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	01/29/10 15:55	012910-1	944077
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BAJ	01/30/10 13:50	100130-9	944080
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	02/02/10 10:15	020210W1-13	945393
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-09-7	Potassium	181	ug/L		50	150	150	1	P	HSC	01/29/10 15:55	012910-1	944077
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-23-5	Sodium	300	ug/L	U	100	300	300	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	PRB	02/06/10 01:50	100205-2	944080
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	BAJ	01/29/10 13:56	100129-3	944080
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	01/29/10 15:55	012910-1	944077

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944077	944076	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
944080	944079	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
945393	945391	SW846 7470A Prep	20	mL	20	mL	02/01/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245137002

BASIS: As Received

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7224

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	200	ug/L	U	68	200	200	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	01/29/10 22:02	100129-8	944080
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	01/30/10 13:52	100130-9	944080
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	01/29/10 22:02	100129-8	944080
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	01/29/10 15:59	012910-1	944077
7439-89-6	Iron	48.4	ug/L	J	30	100	100	1	P	HSC	01/29/10 15:59	012910-1	944077
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	01/29/10 22:02	100129-8	944080
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	01/29/10 15:59	012910-1	944077
7439-96-5	Manganese	1.24	ug/L	J	1	5	5	1	MS	BAJ	01/30/10 13:52	100130-9	944080
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	02/02/10 10:17	020210W1-13	945393
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-09-7	Potassium	184	ug/L		50	150	150	1	P	HSC	01/29/10 15:59	012910-1	944077
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-23-5	Sodium	300	ug/L	U	100	300	300	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	PRB	02/06/10 01:55	100205-2	944080
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	BAJ	01/29/10 13:58	100129-3	944080
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	01/29/10 15:59	012910-1	944077

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944077	944076	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
944080	944079	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
945393	945391	SW846 7470A Prep	20	mL	20	mL	02/01/10	TXB3

KAL
02/24/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245137003

BASIS: As Received

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7227

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	200	ug/L	U	68	200	200	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	01/29/10 22:06	100129-8	944080
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	01/30/10 13:55	100130-9	944080
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	01/29/10 22:06	100129-8	944080
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-47-3	Chromium	1.2	ug/L	J	1	5	5	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	01/29/10 16:03	012910-1	944077
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	01/29/10 16:03	012910-1	944077
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	01/29/10 22:06	100129-8	944080
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	01/29/10 16:03	012910-1	944077
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BAJ	01/30/10 13:55	100130-9	944080
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	02/02/10 10:18	020210W1-13	945393
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-09-7	Potassium	204	ug/L		50	150	150	1	P	HSC	01/29/10 16:03	012910-1	944077
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-23-5	Sodium	300	ug/L	U	100	300	300	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	PRB	02/06/10 02:00	100205-2	944080
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	BAJ	01/29/10 14:00	100129-3	944080
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	01/29/10 16:03	012910-1	944077

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944077	944076	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
944080	944079	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
945393	945391	SW846 7470A Prep	20	mL	20	mL	02/01/10	TXB3

KAL
02/24/10

DATA VALIDATION COVER SHEET

5120-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1303 VALIDATION DATE: 02/25/10 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): total cyanide only | | | |

Section II. Completeness Check

- | YES | NO | N/A | (CHECK ONE) | YES | NO | N/A | (CHECK ONE) |
|-------------------------------------|--------------------------|-------------------------------------|-----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. CHAIN-OF-CUSTODY FORM(S) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. RAW/BSS DATA |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. CASE NARRATIVE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7. QUALITY CONTROL FORMS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. SAMPLE RESULT FORMS | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input 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):


None

Reviewed by: Mary Donovan


Level: I

Date: 02/25/10


VALIDATOR'S SIGNATURE: Kevin A. Lambert DATE: 02/25/10

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

GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7194
Sample ID: 245136001
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 20.7%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	84.0	309	ug/kg	1	AXC2	01/27/10	1331	944392	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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02/25/10

Certificate of Analysis

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7186
Sample ID: 245136002
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 18.6%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	74.6	274	ug/kg	1	AXC2	01/27/10	1338	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7191
Sample ID: 245136003
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 14.6%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	78.0	287	ug/kg	1	AXC2	01/27/10	1341	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7195
Sample ID: 245136004
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 10.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>										
Cyanide, Total	U	ND	67.5	248	ug/kg	1	AXC2 01/27/10	1342	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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02/25/10

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7196
Sample ID: 245136005
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 23.7%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Flow Injection Analysis										
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>										
Cyanide, Total	J	132	89.1	328	ug/kg	1	AXC2 01/27/10	1343	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7197
Sample ID: 245136006
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 14.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	72.3	266	ug/kg	1	AXC2	01/27/10	1344	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7193
Sample ID: 245136007
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 19%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	76.3	281	ug/kg	1	AXC2	01/27/10	1349	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Certificate of Analysis

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7189
Sample ID: 245136008
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 9.23%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	74.9	275	ug/kg	1	AXC2	01/27/10	1350	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7187
Sample ID: 245136009
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 9.34%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	73.5	270	ug/kg	1	AXC2	01/27/10	1350	944392	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Certificate of Analysis

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7188
Sample ID: 245136010
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 12.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	130	74.7	274	ug/kg	1	AXC2	01/27/10	1351	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7190
Sample ID: 245136011
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 28.3%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	233	81.8	301	ug/kg	1	AXC2	01/27/10	1352	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7192
Sample ID: 245136012
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 34.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	104	381	ug/kg	1	AXC2	01/27/10	1353	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

KAL
02/25/10

GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7219
Sample ID: 245136013
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 23.2%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	86.8	319	ug/kg	1	AXC2	01/27/10	1354	944392	1
----------------	---	----	------	-----	-------	---	------	----------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

KAL
02/25/10

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: February 8, 2010

Client SDG: 10-1303-1

Client Sample ID: RE15-10-7224
Sample ID: 245137002
Matrix: W
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW9012A Cyanide, Total "As Received"											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	01/26/10	1035	944394	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1441	944393

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: February 8, 2010

Client SDG: 10-1303-1

Client Sample ID: RE15-10-7227
Sample ID: 245137003
Matrix: W
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW9012A Cyanide, Total "As Received"											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	01/26/10	1036	944394	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1441	944393

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

KAL
02/25/10

GEL LABORATORIES LLC

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

Certificate of Analysis

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

Report Date: February 8, 2010

Client SDG: 10-1303-1

Client Sample ID: RE15-10-7228
Sample ID: 245137001
Matrix: W
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
SW9012A Cyanide, Total "As Received"											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	01/26/10	1032	944394	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1441	944393

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Sunday, January 17, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1303C

LOS ALAMOS

REQUEST NUMBER: 10-1303

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/17/2010

General Engineering Laboratories, Inc.,
Charleston, SC

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

245136%, 245137%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7194	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7186	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7191	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7195	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7196	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7197	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7193	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7189	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7187	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7188	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7190	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7192	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7219	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7228	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-7228	1	POLY	SW-846:6850	Ice	W
RE15-10-7228	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-7224	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-7224	1	POLY	SW-846:6850	Ice	W
RE15-10-7224	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-7227	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-7227	1	POLY	SW-846:6850	Ice	W
RE15-10-7227	1	POLY	TCN	Sodium Hydroxide	W

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

1/17/10

3:00

Printed Name

Signature

Greg Tyler

[Signature]

1-20-10

0845

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Sunday, January 17, 2010

**LOS ALAMOS
NATIONAL LABORATORY**

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

Page 1 of 3

REQUEST NUMBER: 10-1303

These Samples are on:

LANL Request Number: 10-1303

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated.

SHIP DATE: 1/18/2010


TURNAROUND/REPORT DUE: 2/17/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ERM SMO CONTACT:

Signature: 

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846-6020	1	RE15-10-7185	R	1/13/2010	
		1	RE15-10-7187	R	1/13/2010	
		1	RE15-10-7188	R	1/13/2010	
		1	RE15-10-7189	R	1/13/2010	
		1	RE15-10-7190	R	1/13/2010	
		1	RE15-10-7191	R	1/13/2010	
		1	RE15-10-7192	R	1/13/2010	
		1	RE15-10-7193	R	1/13/2010	
		1	RE15-10-7194	R	1/13/2010	

Sunday, January 17, 2010

REQUEST NUMBER: 10-1303

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846.8020	1	RE15-10-7195	R	1/13/2010	
		1	RE15-10-7196	R	1/13/2010	
		1	RE15-10-7197	R	1/13/2010	
		1	RE15-10-7219	R	1/13/2010	
		1	RE15-10-7224	W	1/13/2010	
		1	RE15-10-7227	W	1/13/2010	
		1	RE15-10-7228	W	1/13/2010	
	SW-846.8850	1	RE15-10-7186	R	1/13/2010	
		1	RE15-10-7187	R	1/13/2010	
		1	RE15-10-7188	R	1/13/2010	
		1	RE15-10-7189	R	1/13/2010	
		1	RE15-10-7190	R	1/13/2010	
		1	RE15-10-7191	R	1/13/2010	
		1	RE15-10-7192	R	1/13/2010	
		1	RE15-10-7193	R	1/13/2010	
		1	RE15-10-7194	R	1/13/2010	
		1	RE15-10-7195	R	1/13/2010	
		1	RE15-10-7196	R	1/13/2010	
		1	RE15-10-7197	R	1/13/2010	
		1	RE15-10-7219	R	1/13/2010	
		1	RE15-10-7224	W	1/13/2010	
		1	RE15-10-7227	W	1/13/2010	
		1	RE15-10-7228	W	1/13/2010	
	SW-846.7470A	1	RE15-10-7224	W	1/13/2010	
		1	RE15-10-7227	W	1/13/2010	
		1	RE15-10-7228	W	1/13/2010	
	SW-846.7471A	1	RE15-10-7186	R	1/13/2010	
		1	RE15-10-7187	R	1/13/2010	

Sunday, January 17, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-848-7471A	1	RE15-10-7188	R	1/13/2010	
		1	RE15-10-7189	R	1/13/2010	
		1	RE15-10-7190	R	1/13/2010	
		1	RE15-10-7191	R	1/13/2010	
		1	RE15-10-7192	R	1/13/2010	
		1	RE15-10-7193	R	1/13/2010	
		1	RE15-10-7194	R	1/13/2010	
		1	RE15-10-7195	R	1/13/2010	
		1	RE15-10-7196	R	1/13/2010	
		1	RE15-10-7197	R	1/13/2010	
		1	RE15-10-7219	R	1/13/2010	
	SW-848-9012A	1	RE15-10-7186	R	1/13/2010	
		1	RE15-10-7187	R	1/13/2010	
		1	RE15-10-7188	R	1/13/2010	
		1	RE15-10-7189	R	1/13/2010	
		1	RE15-10-7190	R	1/13/2010	
		1	RE15-10-7191	R	1/13/2010	
		1	RE15-10-7192	R	1/13/2010	
		1	RE15-10-7193	R	1/13/2010	
		1	RE15-10-7194	R	1/13/2010	
		1	RE15-10-7195	R	1/13/2010	
		1	RE15-10-7196	R	1/13/2010	
		1	RE15-10-7197	R	1/13/2010	
		1	RE15-10-7219	R	1/13/2010	
		1	RE15-10-7224	W	1/13/2010	
		1	RE15-10-7227	W	1/13/2010	
		1	RE15-10-7228	W	1/13/2010	

Final Page of REQUEST NUMBER 10-1303



January 22, 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 Orders: 245136 245137
SDG: 10-1303

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on January 20, 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: 10-1303
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 245136 and 245137
SDG: 10-1303

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Cyanide, Total	1203

Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 245136 and 245137
SDG # : 10-1303**

January 22, 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 January 20, 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>
245136001	RE15-10-7194
245136002	RE15-10-7186
245136003	RE15-10-7191
245136004	RE15-10-7195
245136005	RE15-10-7196
245136006	RE15-10-7197
245136007	RE15-10-7193
245136008	RE15-10-7189
245136009	RE15-10-7187
245136010	RE15-10-7188
245136011	RE15-10-7190
245136012	RE15-10-7192
245136013	RE15-10-7219
245137001	RE15-10-7228
245137002	RE15-10-7224
245137003	RE15-10-7227

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.

A handwritten signature in black ink, appearing to read "for Valerie Davis".

Valerie Davis

Project Manager

List of current GEL Certifications as of 22 January 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

Sunday, January 17, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1303C

LOS ALAMOS

REQUEST NUMBER: 10-1303

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 2/17/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

2451367, 2451377

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7194	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7186	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7191	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7195	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7196	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7197	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7193	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7189	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7187	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7188	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7190	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7192	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7219	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7228	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-7228	1	POLY	SW-846:6850	Ice	W
RE15-10-7228	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-7224	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-7224	1	POLY	SW-846:6850	Ice	W
RE15-10-7224	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-7227	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-7227	1	POLY	SW-846:6850	Ice	W
RE15-10-7227	1	POLY	TCN	Sodium Hydroxide	W

Relinquished By:


Date

Time

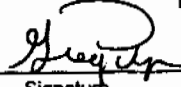
Received By:

Date

Time


 Printed Name Signature

1/17/10 3:00

Greg Tyler  1-20-10 0845
 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

Sunday, January 17, 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: 1/18/2010

TURNAROUND/REPORT DUE: 2/17/2010

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: 10-1303
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

REQUEST NUMBER: 10-1303

Page 1 of 3

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE15-10-7186	R	1/13/2010	
		1	RE15-10-7187	R	1/13/2010	
		1	RE15-10-7188	R	1/13/2010	
		1	RE15-10-7189	R	1/13/2010	
		1	RE15-10-7190	R	1/13/2010	
		1	RE15-10-7191	R	1/13/2010	
		1	RE15-10-7192	R	1/13/2010	
		1	RE15-10-7193	R	1/13/2010	
		1	RE15-10-7194	R	1/13/2010	

Sunday, January 17, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE15-10-7195	R	1/13/2010	
		1	RE15-10-7196	R	1/13/2010	
		1	RE15-10-7197	R	1/13/2010	
		1	RE15-10-7219	R	1/13/2010	
		1	RE15-10-7224	W	1/13/2010	
		1	RE15-10-7227	W	1/13/2010	
		1	RE15-10-7228	W	1/13/2010	
	SW-846:6850	1	RE15-10-7186	R	1/13/2010	
		1	RE15-10-7187	R	1/13/2010	
		1	RE15-10-7188	R	1/13/2010	
		1	RE15-10-7189	R	1/13/2010	
		1	RE15-10-7190	R	1/13/2010	
		1	RE15-10-7191	R	1/13/2010	
		1	RE15-10-7192	R	1/13/2010	
		1	RE15-10-7193	R	1/13/2010	
		1	RE15-10-7194	R	1/13/2010	
		1	RE15-10-7195	R	1/13/2010	
		1	RE15-10-7196	R	1/13/2010	
		1	RE15-10-7197	R	1/13/2010	
		1	RE15-10-7219	R	1/13/2010	
		1	RE15-10-7224	W	1/13/2010	
		1	RE15-10-7227	W	1/13/2010	
		1	RE15-10-7228	W	1/13/2010	
	SW-846:7470A	1	RE15-10-7224	W	1/13/2010	
		1	RE15-10-7227	W	1/13/2010	
		1	RE15-10-7228	W	1/13/2010	
	SW-846:7471A	1	RE15-10-7186	R	1/13/2010	
		1	RE15-10-7187	R	1/13/2010	

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		1	RE15-10-7191	R	1/13/2010	
		1	RE15-10-7192	R	1/13/2010	
		1	RE15-10-7193	R	1/13/2010	
		1	RE15-10-7194	R	1/13/2010	
		1	RE15-10-7195	R	1/13/2010	
		1	RE15-10-7196	R	1/13/2010	
		1	RE15-10-7197	R	1/13/2010	
		1	RE15-10-7219	R	1/13/2010	
	SW-846:9012A	1	RE15-10-7186	R	1/13/2010	
		1	RE15-10-7187	R	1/13/2010	
		1	RE15-10-7188	R	1/13/2010	
		1	RE15-10-7189	R	1/13/2010	
		1	RE15-10-7190	R	1/13/2010	
		1	RE15-10-7191	R	1/13/2010	
		1	RE15-10-7192	R	1/13/2010	
		1	RE15-10-7193	R	1/13/2010	
		1	RE15-10-7194	R	1/13/2010	
		1	RE15-10-7195	R	1/13/2010	
		1	RE15-10-7196	R	1/13/2010	
		1	RE15-10-7197	R	1/13/2010	
		1	RE15-10-7219	R	1/13/2010	
		1	RE15-10-7224	W	1/13/2010	
		1	RE15-10-7227	W	1/13/2010	
		1	RE15-10-7228	W	1/13/2010	



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCOC/Work Order: 10-1303		
Received By: Greg Tyler			Date Received: 1/20/10		
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*: 80cpm		
Classified Radioactive II by RSO?		X			
COC/Samples marked containing PCBs?		X			
Shipped as a DOT Hazardous?		X	Hazard Class Shipped: UN#:		
Samples identified as Foreign Soil?		X			

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2 Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other 2-5 12-15, 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. Sample ID's affected:
11 Number of containers received match number indicated on COC?	X			
12 COC form is properly signed in relinquished/received sections?	X			

Comments:

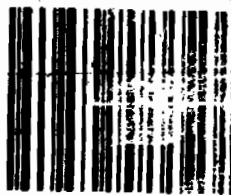
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7209 7849 5644 2C 7209 7849 5714 4C 7209 7849 5699 13C
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7209 7849 5840 2C 7209 7849 5861 4C 7209 7849 5703 15C
7209 7849 5688 3C 7209 7849 5883 4C 7209 7849 5633 17C
7209 7849 5850 3C 7209 7849 5747 5C
7209 7849 5655 4C 7209 7849 6055 5C
7209 7849 5666 4C 7209 7849 5677 12C

PM (or PMA) review: Initials

Date

1/21/10



SHIP DATE: 19JAN10
ACTGNT: 62.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

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29407 SC 29407

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PRIORITY OVERNIGHT
TUE - 19 JAN A1

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WED - 20 JAN A1
PRIORITY OVERNIGHT

29407
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CHS

3 of 3
SH 7209 7849 5644
Nstr# 7209 7849 5622 0201

XX CHSA



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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
ACTGNT: 62.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-9171
REF: 68010AMR2A0515BYDO

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WED - 20 JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

2 of 2
PSN 7209 7849 5736
str# 7209 7849 5725 0201

XX CHSA

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
ACTGNT: 61.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-9171
REF: 68010AMR2A0515BYDO

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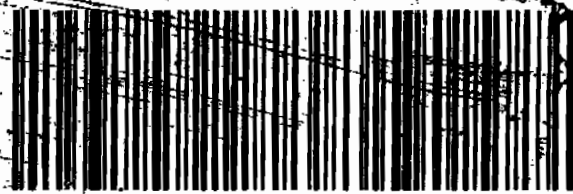


WED - 20 JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

1 of 2
TRK# 7209 7849 5725
Nstr# 7209 7849 5725

XX CHSA



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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
ACTGNT: 63.0 LB MAN
CAD: 0014176/CAFE2449

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VALERIE DAVIS
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PRIORITY OVERNIGHT

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2 of 2
NPS# 7209 7849 5840
str# 7209 7849 5839 0201

XX CHSA

LOS ALAMOS NATL LAB
T800 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19 JAN 80
ACTWGT: 53.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
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2 of 2
MPS# 0263 7209 7849 5688
Matr# 7209 7849 5677 0201

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PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
T800 BLDG 1237 DPU 03

SHIP DATE: 19 JAN 80
ACTWGT: 53.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMR3A05529E00

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1 of 2
TRKH 0201 7209 7849 5655
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WED - 20 JAN A1
PRIORITY OVERNIGHT

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XX CHSA

ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
T800 BLDG 1237 DPU 03

SHIP DATE: 19 JAN 80
ACTWGT: 53.0 LB MAN
CAD: 0014176/CAFE2449

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UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010AMR3A05529E00

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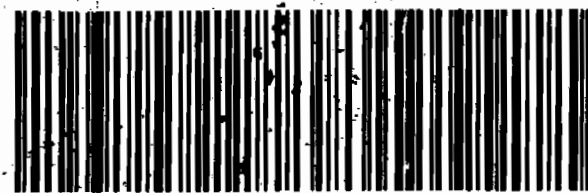


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PRIORITY OVERNIGHT

29407
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CHS

XX CHSA



ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
T800 BLDG 1237 DPU 03

SHIP DATE: 19 JAN 80
ACTWGT: 53.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

LOS ALAMOS, NM 87545
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
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2 of 2
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WED - 20 JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
ACTMGT: 54.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
ACTMGT: 51.0 LB MAN
CAD: 0014176/CAFE2449

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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(843) 556-8171
REF: 68010AMR2A05158YDO

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Matrx 7209 7849 5899 0201

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PRIORITY OVERNIGHT

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Part # 150149-434 NRIT V3 04-01

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GENERAL ENGINEERING LAB
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REF: 68010AMR3A05529E00

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WED - 20JAN A1
PRIORITY OVERNIGHT

XX CHSA

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Part # 150149-434 NRIT V3 04-01

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
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2040 SAVAGE RD

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
ACTMGT: 51.0 LB MAN
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TRKH 0201 7209 7849 5861

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PRIORITY OVERNIGHT

XX CHSA

29407
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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
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CAD: 0014176/CAFE2449

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2040 SAVAGE RD

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TRKH 7209 7849 5883
0201

WED - 20JAN A1
PRIORITY OVERNIGHT

29407
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XX CHSA



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

LOS ALAMOS, NM 87545
UNITED STATES US

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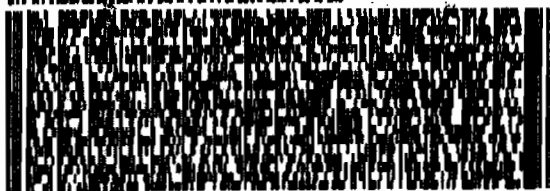
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TRKH 7209 7849 6055
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PRIORITY OVERNIGHT

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SHIP DATE: 19JAN10
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TRKH 7209 7849 5747
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WED - 20JAN A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

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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: 19JAN10
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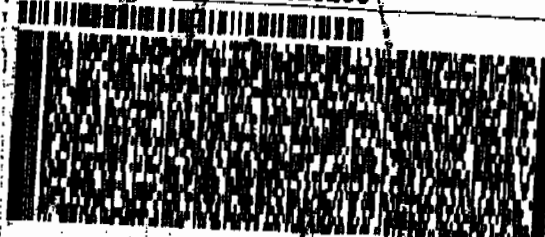
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2040 SAVAGE RD

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(843) 556-8171
REF: 68010AMR3A05529E00

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TRKH 7209 7849 5677
0201

1 of 2
NN MASTER NN

WED - 20JAN A1
PRIORITY OVERNIGHT

29407

XX CHSA

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

SHIP DATE: 19JAN10
ACTWGT: 41.0 LB MAN
CAD: 0014176/CAFE2449

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

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

SHIP DATE: 19JAN10
ACTWGT: 40.0 LB MAN
CAD: 0014176/CAFE2449

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 68010AMR2A0515BYDO

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 68010AMR3A05529E00



1 of 3
TRKH 7209 7849 5699
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NM MASTER NM

WED - 20JAN A1
PRIORITY OVERNIGHT

XX CHSA

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SC-US
CHS



2 of 3
TRKH 7209 7849 5817
0201
Master 7209 7849 5806 0201

WED - 20JAN A1
PRIORITY OVERNIGHT

XX CHSA

29407
SC-US
CHS



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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
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CAD: 0014176/CAFE2449

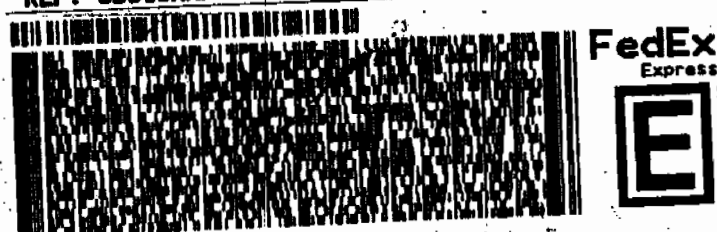
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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 68010AMR3A0352VA00



TRKH 7209 7849 5872
0201

WED - 20JAN A1
PRIORITY OVERNIGHT

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SC-US
CHS

ALAMOS, NM 87545
UNITED STATES US

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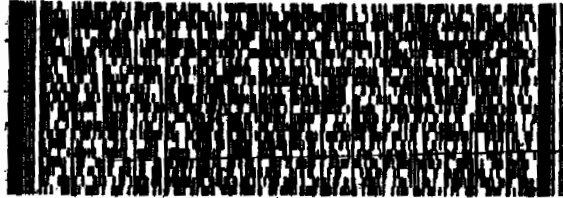
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ALERTIE DAVIS
GENERAL ENGINEERING LAB
040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010AMR2A0515BYD0



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MPS# 7209 7849 5703
0263

Matr# 7209 7849 5699 0201

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PRIORITY OVERNIGHT

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Part # 158148-101

ORIGIN ID: SAFA (505) 85-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
T800 BLDG 1237 DPU 601
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 19JAN10
ACTWGT: 67.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

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GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171

REF: 6B010A 05529E00



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2 of 3

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0263

MPS# 7209 7849 5633
0263

Matr# 7209 7849 5622 1020

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PRIORITY OVERNIGHT

XX CHSA

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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 10-1303**

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: 945198

Prep Batch Number: 945197

Sample Analysis

Sample ID	Client ID
245136001	RE15-10-7194
245136002	RE15-10-7186
245136003	RE15-10-7191
245136004	RE15-10-7195
245136005	RE15-10-7196
245136006	RE15-10-7197
245136007	RE15-10-7193
245136008	RE15-10-7189
245136009	RE15-10-7187
245136010	RE15-10-7188
245136011	RE15-10-7190
245136012	RE15-10-7192
245136013	RE15-10-7219
1202024343	Interference Check Sample (ICS)

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1202024339	Method Blank (MB)
1202024340	Laboratory Control Sample (LCS)
1202024341	245136001(RE15-10-7194) Matrix Spike (MS)
1202024342	245136001(RE15-10-7194) Matrix Spike Duplicate (MSD)

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

Preparation/Analytical Method Verification

SOP Reference

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

Calibration Information

Initial Calibration

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

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 245136001 (RE15-10-7194) was chosen for matrix spike and matrix spike duplicate analysis.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

10-1303-PERLCMS

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Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Retention Time Standard Area Acceptance

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

Retention Time

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

Technical Information**Holding Time Specifications**

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

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

Miscellaneous Information**Data Exception (DER) Documentation**

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

Manual Integrations

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

Method Comments

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

Additional Comments

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

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

Perchlorate Isotope Ratio

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

System Configuration

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

Chromatographic Columns

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

Dionex: IonPac AG-16 2 x 50 mm.

Certification Statement

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

Review Validation:

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

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

Reviewer: Herbert M. Mues Date: 02/03/10

SAMPLE DATA SUMMARY

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7194

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136001

Date Filtered: 27-JAN-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	0.630	ug/kg	U	1	28-JAN-10 17:08	per0128023a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:08	per0128023a
14797-73-0	Perchlorate-101	.63	2.52	0.630	ug/kg	U	1	28-JAN-10 17:08	per0128023a
	Perchlorate-O(18)			6.45	ug/kg		1	28-JAN-10 17:08	per0128023a

[^] 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

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

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 945197
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7186
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303
 GEL Sample ID: 245136002
 Date Filtered: 27-JAN-10
 Injection Volume (uL): 20
 %Solids: 81

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.614	2.46	0.614	ug/kg	U	1	28-JAN-10 17:33	per0128026a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:33	per0128026a
14797-73-0	Perchlorate-101	.614	2.46	0.614	ug/kg	U	1	28-JAN-10 17:33	per0128026a
	Perchlorate-O(18)			5.98	ug/kg		1	28-JAN-10 17:33	per0128026a

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

*Concentration =

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

Perchlorate Analysis Data Sheet

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

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 945197
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-7191
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303
 GEL Sample ID: 245136003
 Date Filtered: 27-JAN-10
 Injection Volume (uL): 20
 Sample Volume/Weight: 2.00 g
 %Solids: 85

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.585	2.34	0.585	ug/kg	U	1	28-JAN-10 17:41	per0128027a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:41	per0128027a
14797-73-0	Perchlorate-101	.585	2.34	0.585	ug/kg	U	1	28-JAN-10 17:41	per0128027a
	Perchlorate-O(18)			6.54	ug/kg		1	28-JAN-10 17:41	per0128027a

[^] 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: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7195

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136004

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 90

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.556	2.22	0.556	ug/kg	U	1	28-JAN-10 17:49	per0128028a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:49	per0128028a
14797-73-0	Perchlorate-101	.556	2.22	0.556	ug/kg	U	1	28-JAN-10 17:49	per0128028a
	Perchlorate-O(18)			6.38	ug/kg		1	28-JAN-10 17:49	per0128028a

[^] 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: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7196

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136005

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 76

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.655	2.62	0.655	ug/kg	U	1	28-JAN-10 17:57	per0128029a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:57	per0128029a
14797-73-0	Perchlorate-101	.655	2.62	0.655	ug/kg	U	1	28-JAN-10 17:57	per0128029a
	Perchlorate-O(18)			6.55	ug/kg		1	28-JAN-10 17:57	per0128029a

^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 %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: 245197
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-7197
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303
 GEL Sample ID: 245136006
 Date Filtered: 27-JAN-10
 Injection Volume (uL): 20
 %Solids: 86

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	.584	2.34	0.584	ug/kg	U	1	28-JAN-10 18:05	per0128030a
	Perchlorate Isotope Ratio						1	28-JAN-10 18:05	per0128030a
14797-73-0	Perchlorate-101	.584	2.34	0.584	ug/kg	U	1	28-JAN-10 18:05	per0128030a
	Perchlorate-O(18)			6.08	ug/kg		1	28-JAN-10 18:05	per0128030a

[^] 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

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Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 945197
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7193
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303
 GEL Sample ID: 245136007
 Date Filtered: 27-JAN-10
 Injection Volume (uL): 20
 %Solids: 81

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.617	2.47	0.617	ug/kg	U	1	28-JAN-10 18:13	per0128031a
	Perchlorate Isotope Ratio						1	28-JAN-10 18:13	per0128031a
14797-73-0	Perchlorate-101	.617	2.47	0.617	ug/kg	U	1	28-JAN-10 18:13	per0128031a
	Perchlorate-O(18)			6.67	ug/kg		1	28-JAN-10 18:13	per0128031a

[^] 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: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7189

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136008

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 90.8

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.551	2.2	0.646	ug/kg	J	1	28-JAN-10 18:21	per0128032a
	Perchlorate Isotope Ratio			3.01			1	28-JAN-10 18:21	per0128032a
14797-73-0	Perchlorate-101	.551	2.2	0.626	ug/kg	J	1	28-JAN-10 18:21	per0128032a
	Perchlorate-O(18)			5.93	ug/kg		1	28-JAN-10 18:21	per0128032a

[^] 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: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7187

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136009

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 90.7

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.552	2.21	0.552	ug/kg	U	1	28-JAN-10 18:53	per0128036a
	Perchlorate Isotope Ratio						1	28-JAN-10 18:53	per0128036a
14797-73-0	Perchlorate-101	.552	2.21	0.552	ug/kg	U	1	28-JAN-10 18:53	per0128036a
	Perchlorate-O(18)			5.57	ug/kg		1	28-JAN-10 18:53	per0128036a

[^] 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: 245197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7188

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136010

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 88

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.571	2.28	0.889	ug/kg	J	1	28-JAN-10 19:01	per0128037a
	Perchlorate Isotope Ratio			2.96			1	28-JAN-10 19:01	per0128037a
14797-73-0	Perchlorate-101	.571	2.28	0.879	ug/kg	J	1	28-JAN-10 19:01	per0128037a
	Perchlorate-O(18)			6.07	ug/kg		1	28-JAN-10 19:01	per0128037a

[^] 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: 245197

Extraction Type: Solid Prep

Client Sample No.

RE15-10-7190

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136011

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 72

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	.698	2.79	0.698	ug/kg	U	1	28-JAN-10 19:09	per0128038a
	Perchlorate Isotope Ratio						1	28-JAN-10 19:09	per0128038a
14797-73-0	Perchlorate-101	.698	2.79	0.698	ug/kg	U	1	28-JAN-10 19:09	per0128038a
	Perchlorate-O(18)			7.33	ug/kg		1	28-JAN-10 19:09	per0128038a

[^] 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: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7192

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136012

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 66

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.762	3.05	0.762	ug/kg	U	1	28-JAN-10 19:17	per0128039a
	Perchlorate Isotope Ratio						1	28-JAN-10 19:17	per0128039a
14797-73-0	Perchlorate-101	.762	3.05	0.762	ug/kg	U	1	28-JAN-10 19:17	per0128039a
	Perchlorate-O(18)			7.90	ug/kg		1	28-JAN-10 19:17	per0128039a

[^] 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: 245197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7219

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136013

Date Filtered: 27-JAN-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	.651	2.6	0.651	ug/kg	U	1	28-JAN-10 19:25	per0128040a
	Perchlorate Isotope Ratio						1	28-JAN-10 19:25	per0128040a
14797-73-0	Perchlorate-101	.651	2.6	0.651	ug/kg	U	1	28-JAN-10 19:25	per0128040a
	Perchlorate-O(18)			6.58	ug/kg		1	28-JAN-10 19:25	per0128040a

[^] 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

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-1303

Extract Batch Code: 945197

Date Filtered: 27-JAN-10

Matrix: SOIL

Sample ID: 1202024340

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	1.99	ug/kg	99.4		70 - 130
Perchlorate Isotope Ratio		3.04				-
Perchlorate-101	2.00	1.91	ug/kg	95.5		70 - 130
Perchlorate-O(18)		5.97	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): 10-1303

Extract Batch Code: 245197

Date Filtered: 27-JAN-10

Matrix: SOIL

Sample ID: 1202024343

Analyte^	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.06	ug/kg	103		70 - 130
Perchlorate Isotope Ratio		2.87				
Perchlorate-101	2.00	2.1	ug/kg	105		70 - 130
Perchlorate-O(18)		4.79	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: Charles W. Wilson

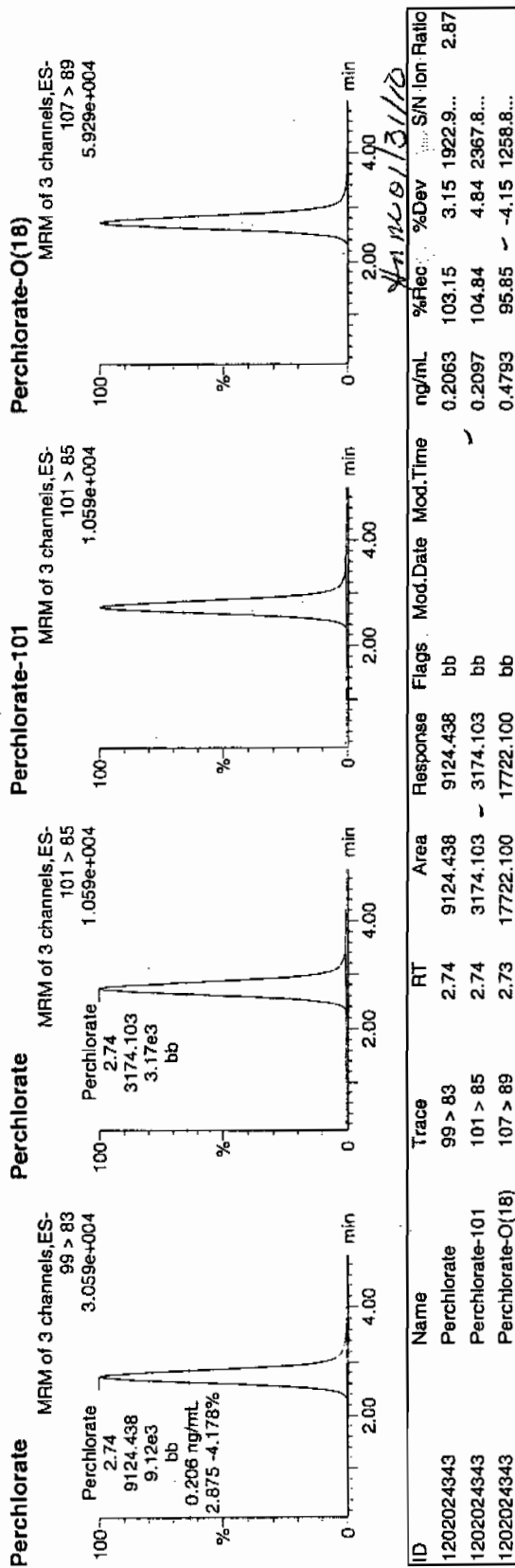
Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128018a
Date: 28-Jan-2010
Time: 16:28:41
ID: 1202024343
Vial: 1:4,C

0.25-10

1202024343 | 50220 | 105 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N Ion Ratio
1202024343	Perchlorate	99 > 83	2.74	9124.438	9124.438	bb			0.2063	103.15	3.15	1922.9...
1202024343	Perchlorate-101	101 > 85	2.74	3174.103	3174.103	bb			0.2097	104.84	4.84	2367.8...
1202024343	Perchlorate-O(18)	107 > 89	2.73	17722.100	17722.100	bb			0.4793	95.85	-4.15	1258.8...

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-1303

Extract Batch Code: 945197

Date Extracted: 27-JAN-10

GEL MS/PS ID: 1202024341

Client ID: RE15-10-7194

GEL MSD/PSD ID: 1202024342

QC Type: MS

Compound [^]	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	2.52	0.208	ug/kg	2.77	102		2.94	108		5.9		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.05			3			0			-
Perchlorate-101	2.52	0.182	ug/kg	2.65	97.9		2.86	106		7.73		30	75 - 125
Perchlorate-O(18)	0	6.45	ug/kg	6.31			6.95			9.56			-

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

Comments:

Form 4

Perchlorate Initial Calibration Blank

GEL Job No.(SDG): 10-1303

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	28-JAN-10	per0128001a	IPB001
Perchlorate-101	0.00	0	NA	28-JAN-10	per0128001a	IPB001
Perchlorate	0.00	0	NA	28-JAN-10	per0128002a	IPB001
Perchlorate-101	0.00	0	NA	28-JAN-10	per0128002a	IPB001

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

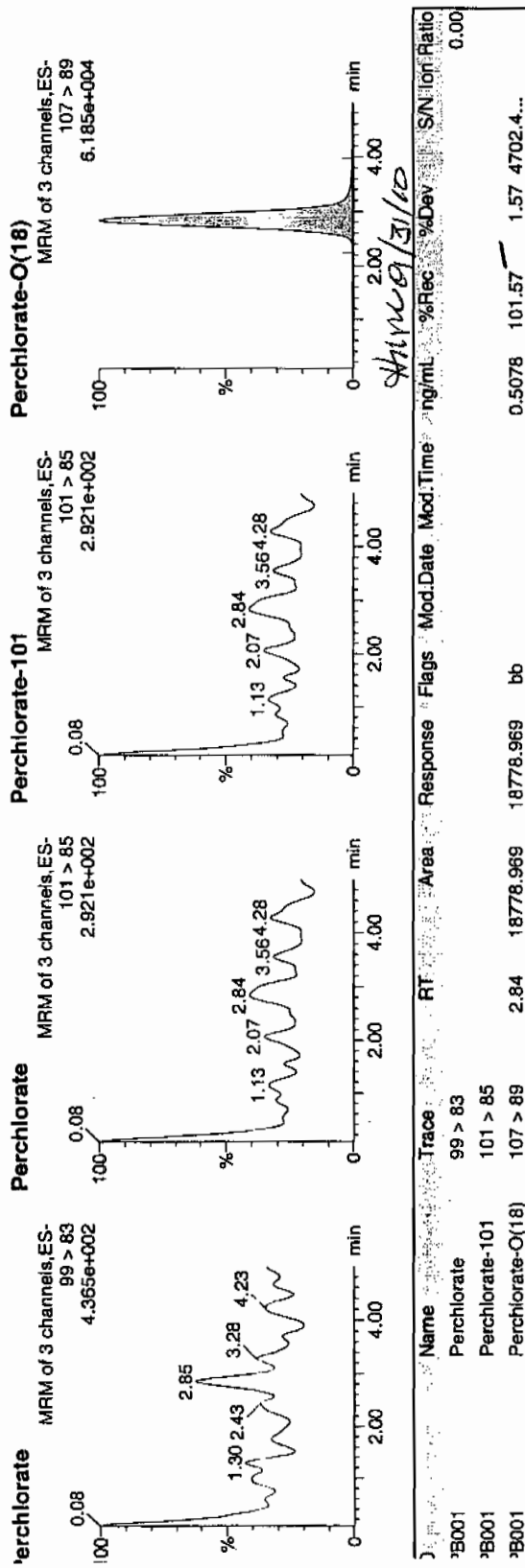
Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per012810a.mdb 29 Jan 2010 09:44:48
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per012810a.cdb 29 Jan 2010 09:45:00

Name: per0128001a
Date: 28-Jan-2010
Time: 14:11:55
D: IPB001
Vial: 1:1,A

01-29-10



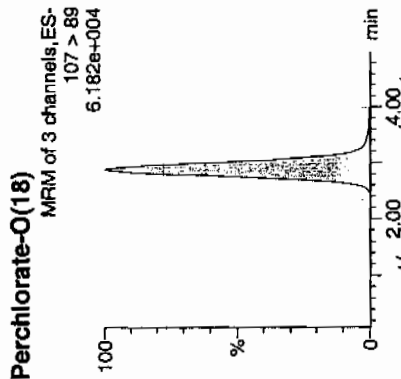
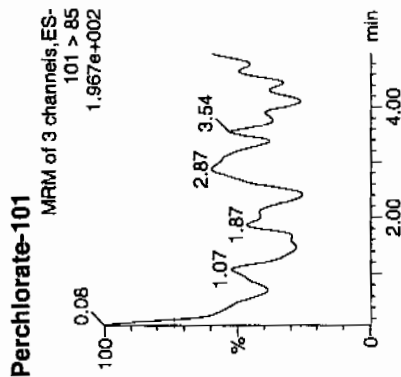
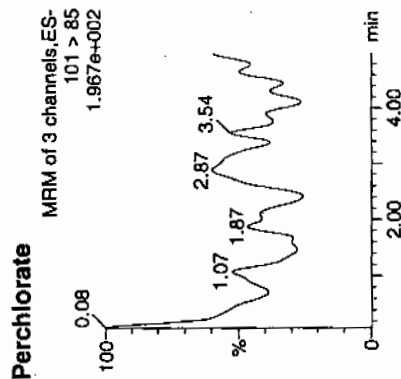
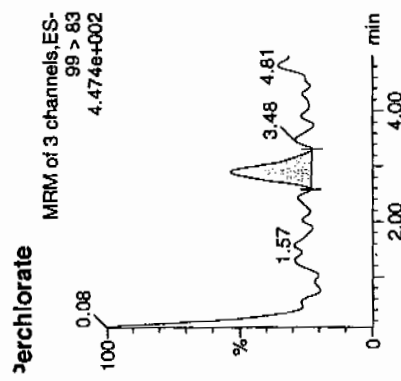
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128002a
Date: 28-Jan-2010
Time: 14:19:57
D: IPB001
Vial: 1:1,A

6.182e+004
0.29-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83	2.90	46.494	46.494	bb			0.0011			12.664	0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	2.87	18873.207	18873.207	bb			0.5104	102.08	2.08	4603.1...	

Perchlorate Continuing Calibration Blank

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1303

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	28-JAN-10	per0128008a	IPB002
Perchlorate-101	0.00	0	NA	28-JAN-10	per0128008a	IPB002
Perchlorate	0.00	0	NA	28-JAN-10	per0128010a	IPB003
Perchlorate-101	0.00	0	NA	28-JAN-10	per0128010a	IPB003
Perchlorate	0.00	0	NA	28-JAN-10	per0128013a	IPB004
Perchlorate-101	0.00	0	NA	28-JAN-10	per0128013a	IPB004
Perchlorate	0.00	0	NA	28-JAN-10	per0128015a	IPB005
Perchlorate-101	0.00	0	NA	28-JAN-10	per0128015a	IPB005
Perchlorate	0.00	0	NA	28-JAN-10	per0128021a	IPB006
Perchlorate-101	0.00	0	NA	28-JAN-10	per0128021a	IPB006
Perchlorate	0.00	0	NA	28-JAN-10	per0128034a	IPB007
Perchlorate-101	0.00	0	NA	28-JAN-10	per0128034a	IPB007
Perchlorate	0.00	0	NA	28-JAN-10	per0128046a	IPB008

Form 4

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-1303

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate-101	0.00	0	NA	28-JAN-10	per0128046a	IPB008

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128008a

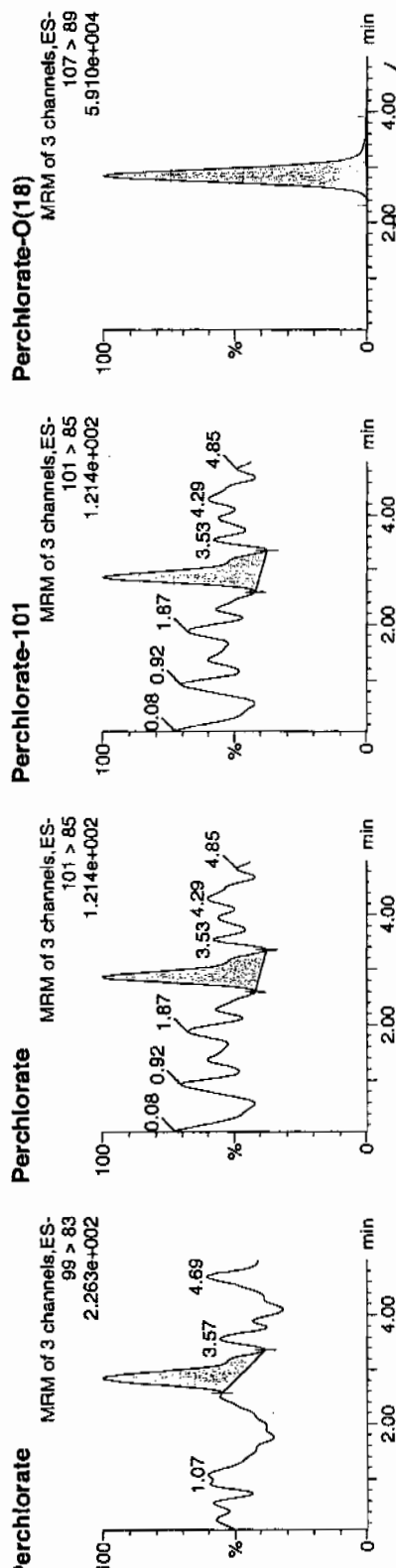
Date: 28-Jan-2010

Time: 15:08:05

D: IPB002

Vial: 1:1,A

01-29-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/ml	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83	2.85	38.288	38.288	bb			0.0009	7.345	1.78		
Perchlorate-101	101 > 85	2.86	21.511	21.511	bb			0.0014	7.163			
Perchlorate-O(18)	107 > 89	2.85	17924.846	17924.846	bb			0.4847	96.95	-3.05	1907.7	

0.0004
0.0002

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

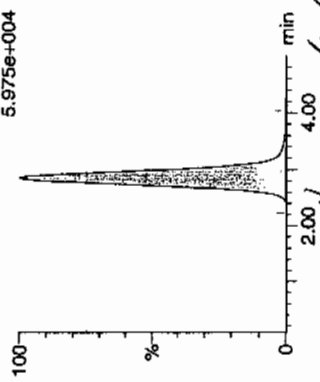
Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

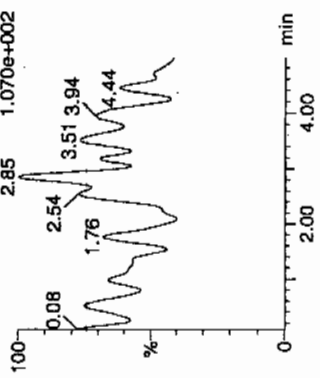
Sample Name: per0128010a
Date: 28-Jan-2010
Time: 15:24:10
Operator: IPB003
Label: 1:1,A

01-29-10

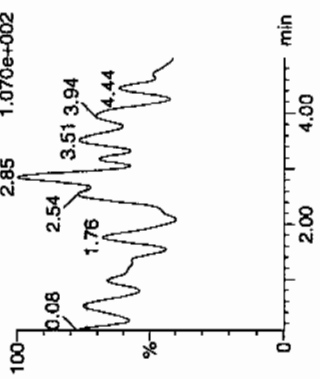
Perchlorate-O(18)
MRM of 3 channels, ES-
107 > 89
5.975e+004



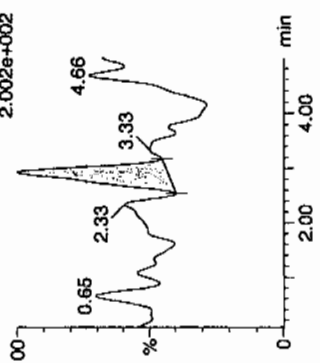
Perchlorate-101
MRM of 3 channels, ES-
101 > 85
1.070e+002



Perchlorate
MRM of 3 channels, ES-
101 > 85
1.070e+002



Perchlorate
MRM of 3 channels, ES-
99 > 83
2.002e+002



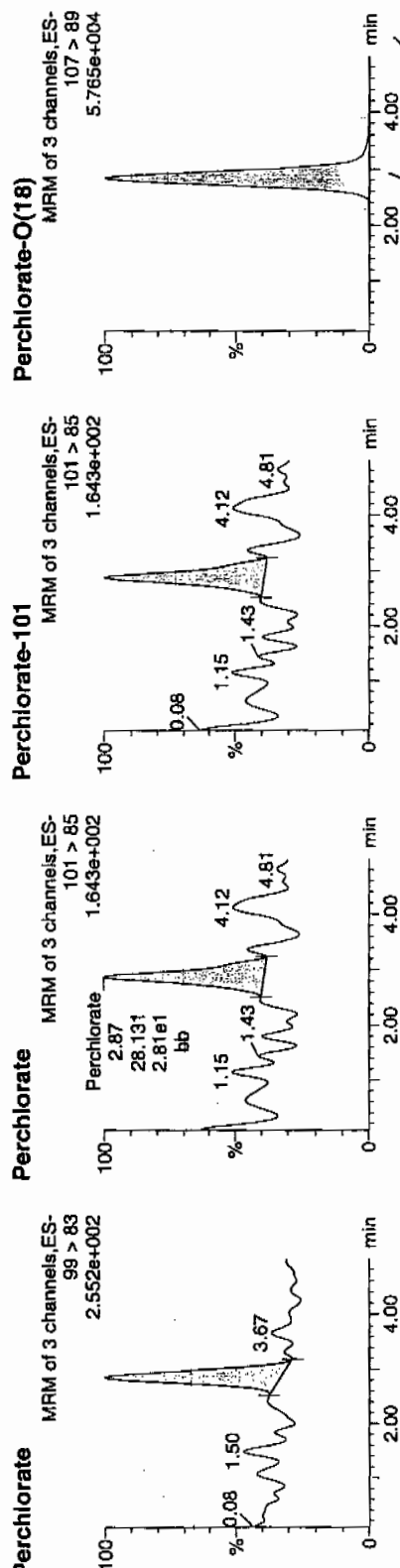
Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec.	%Dev.	S/N	Ion Ratio
Perchlorate	99 > 83	2.92	34.721	34.721	bb			0.0008			11.650	0.00
Perchlorate-101	101 > 85											
Perchlorate-O(18)	107 > 89	2.85	18136.732	18136.732	bb			0.4905	98.09	-1.91	6407.0...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128013a
Date: 28-Jan-2010
Time: 15:48:29
ID: IPB004
Vial: 1:1,A



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ratio
Perchlorate	99 > 83	2.85	46.170	46.170	bb			0.0010			20.391	1.64
Perchlorate-101	101 > 85	2.87	28.131	28.131	bb			0.0019			13.102	
Perchlorate-O(18)	107 > 89	2.84	17535.648	17535.648	bb			0.4742	94.84	-5.16	3422.0...	

0.004
0.004
0.004

Quantify Sample Report MassLynx 4.0 SP4

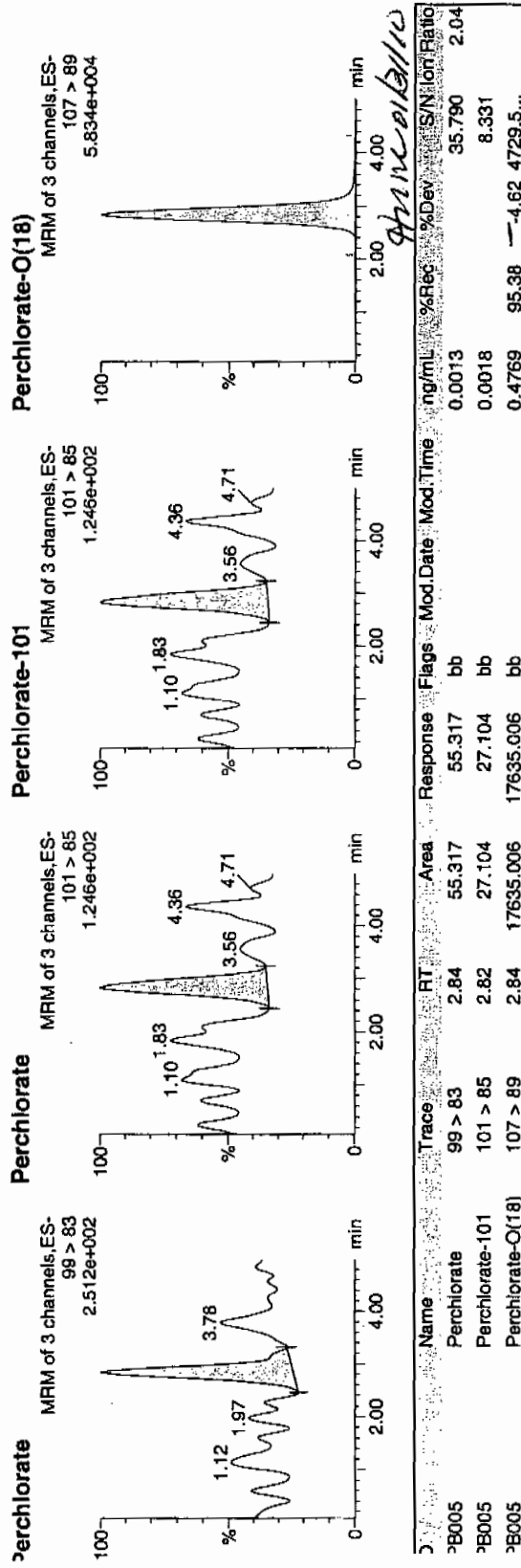
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128015a
Date: 28-Jan-2010
Time: 16:04:33
D: IPB005
Vial: 1:1,A

01-29-10



0.044
10.033

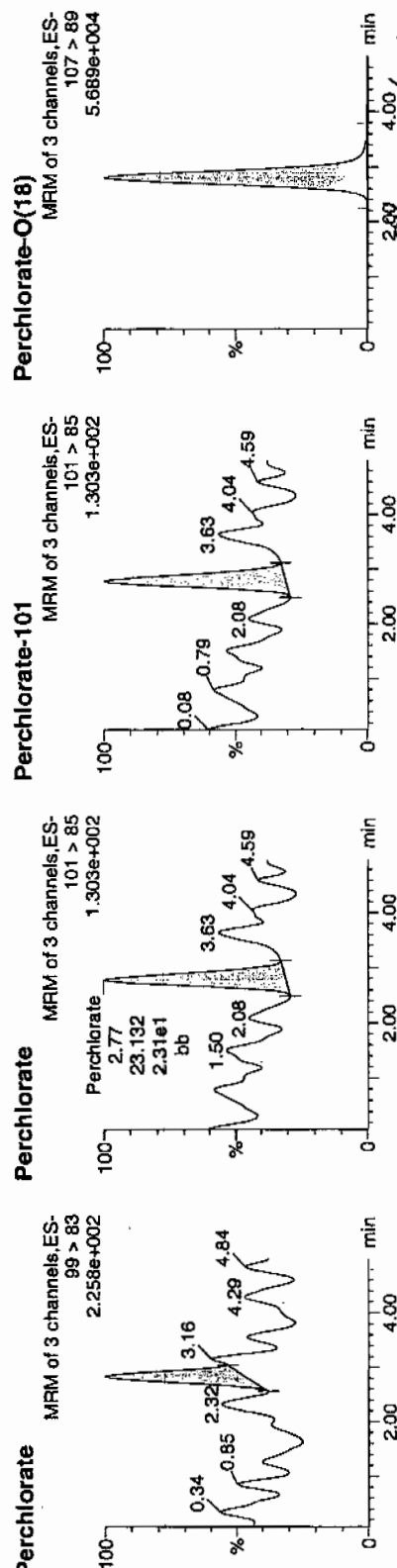
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128021a
Date: 28-Jan-2010
Time: 16:52:49
D: IPB006
Vial: 1:1,A

Q-29-10



D	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
PB006	Perchlorate	99 > 83	2.84	28.536	28.536	bb			0.0006			5.872	1.23
PB006	Perchlorate-101	101 > 85	2.77	23.132	23.132	bb			0.0015			44.870	
PB006	Perchlorate-O(18)	107 > 89	2.80	17016.010	17016.010	bb			0.4602	92.03	-7.97	14444....	

Q-29-10

Quantify Sample Report MassLynx 4.0 SP4

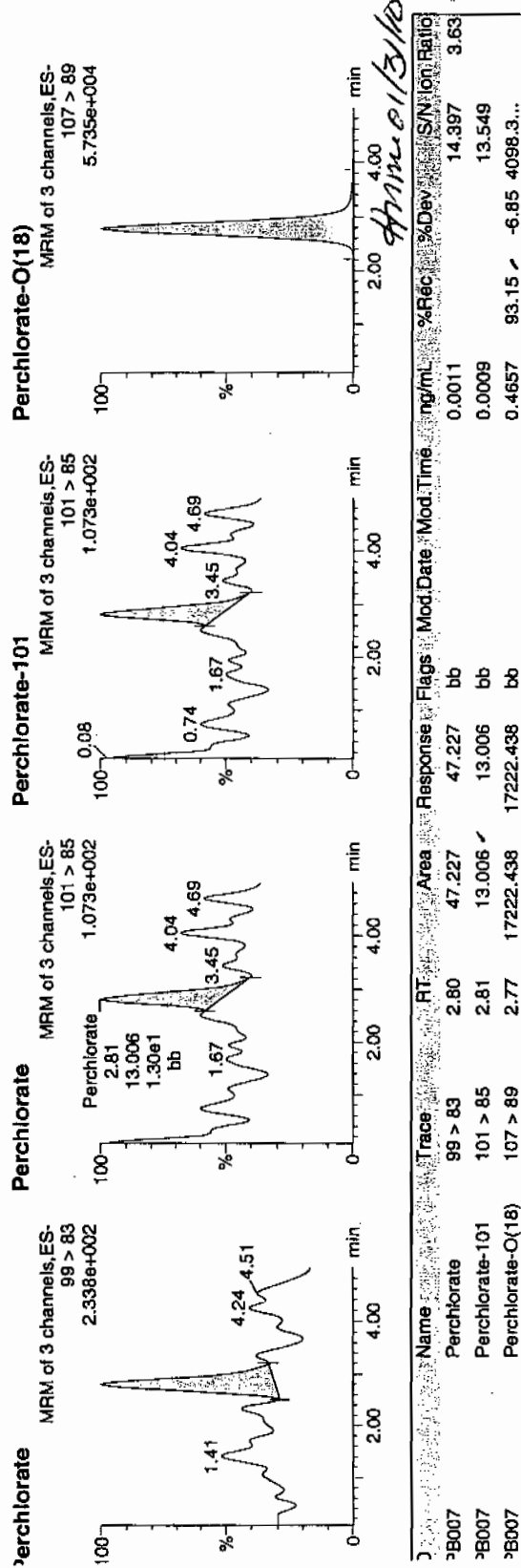
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
 Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128034a
 Date: 28-Jan-2010
 Time: 18:37:26
 D: IPB007
 /lal: 1:1,A

01-29-10



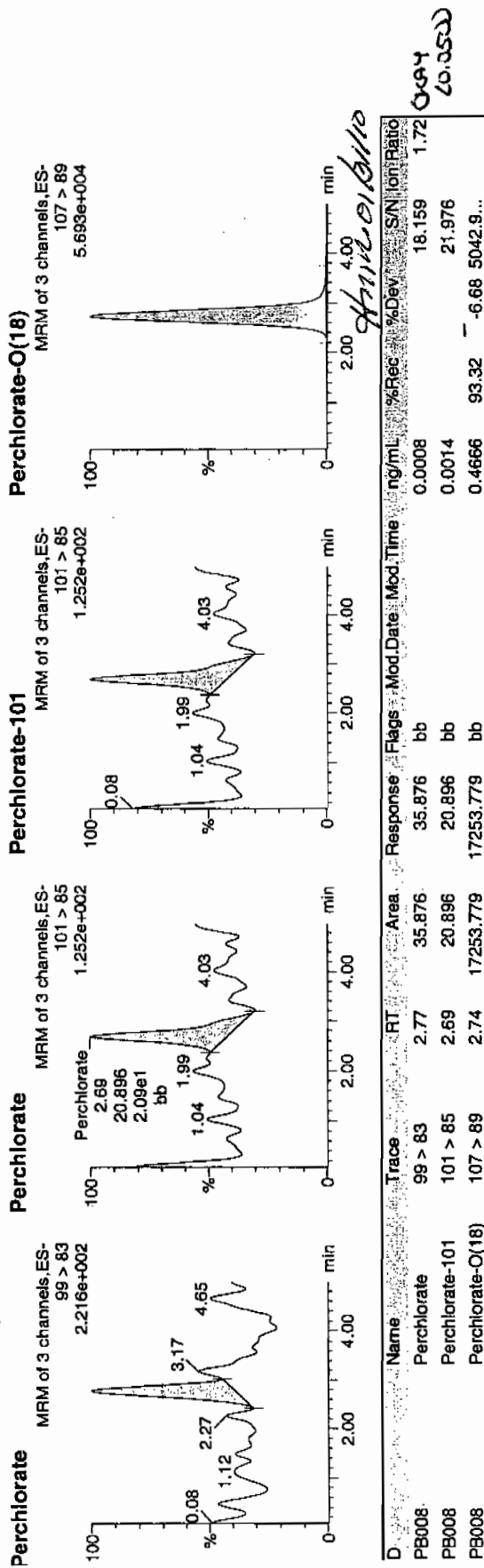
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128046a
Date: 28-Jan-2010
Time: 20:14:00
ID: IPB008
Vial: 1:1,A

01-29-ID



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
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; 3770.3457	100
; 3920.2400	100

QUANTO ULTIMA: nairb_01_08_08.cal

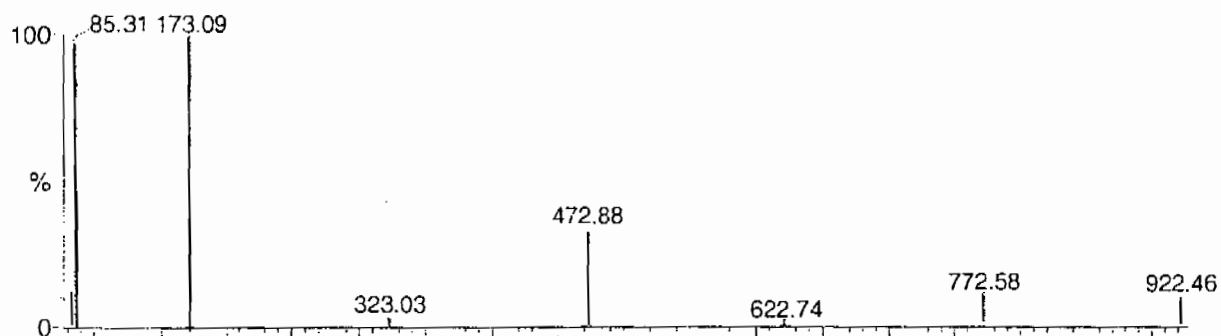
Calibration Report - MS1 Static

Page 1 of 1

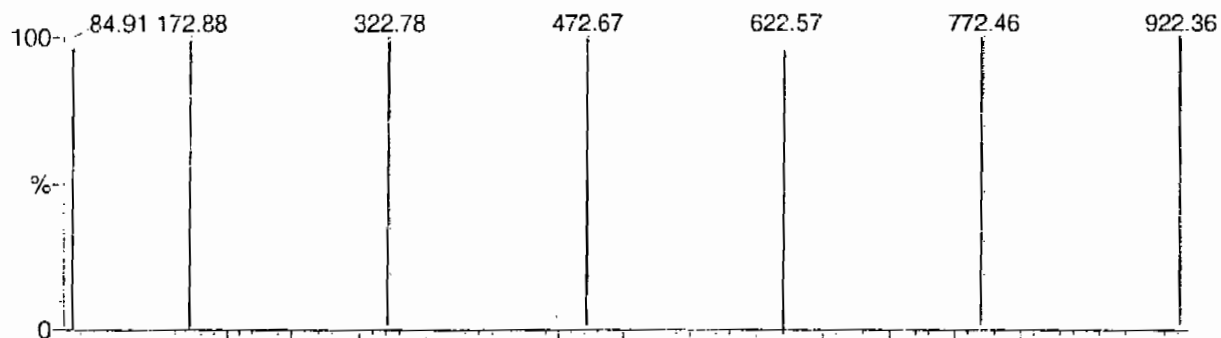
Printed: Tue Jan 08 12:19:12 2008

POINTS HIGHLIGHTED BY CODE: 01-07-03

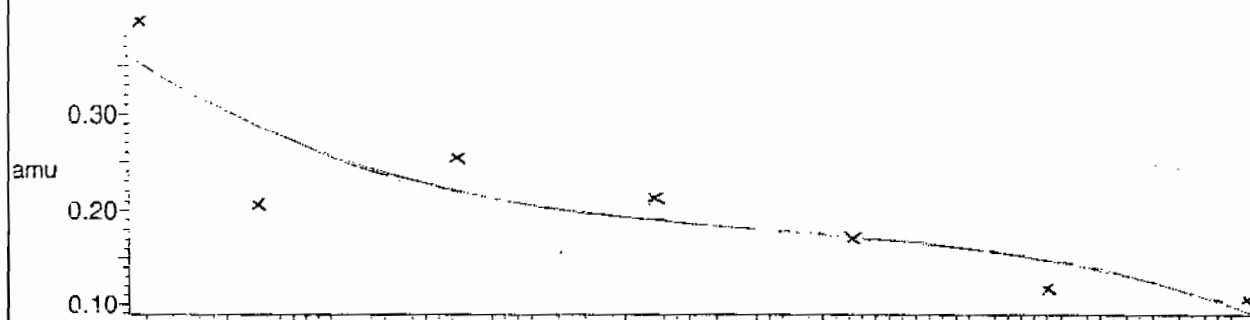
Data file: STATMS1 - Uncalibrated 7 matches of 7 tested references



Reference file: Nairb

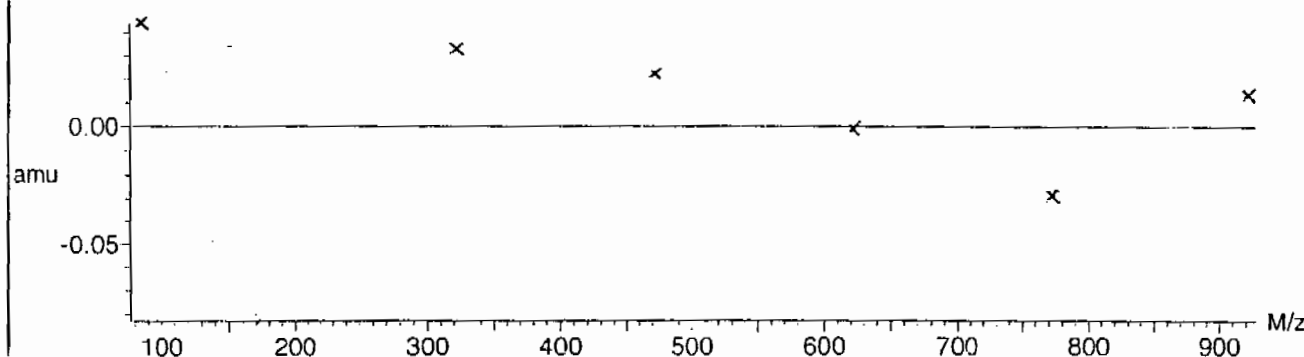


Mass difference (Raw - Ref mass)



Residuals

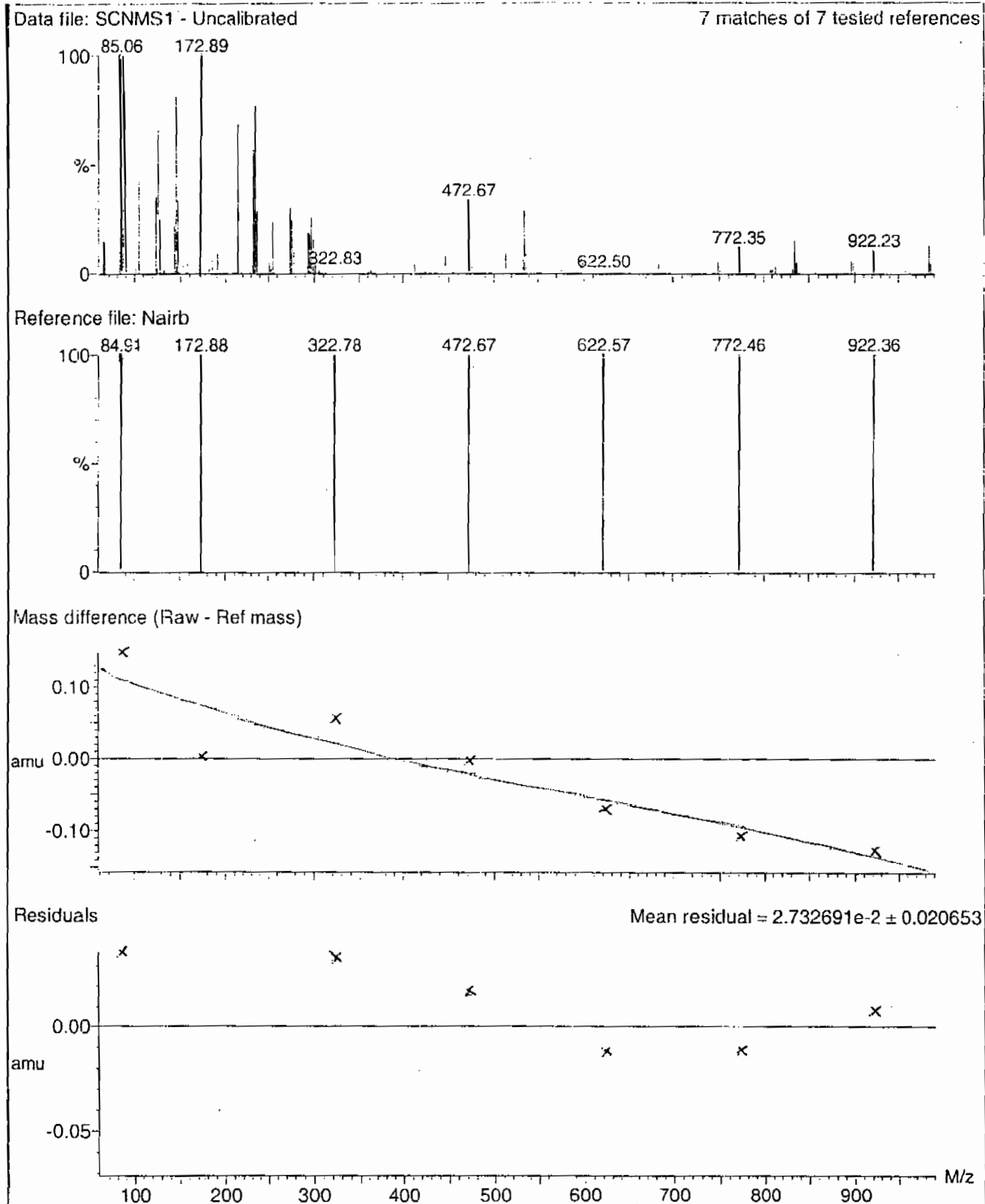
Mean residual = $3.212012 \times 10^{-2} \pm 0.024108$



Calibration Report - MS1 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:20:09 2008



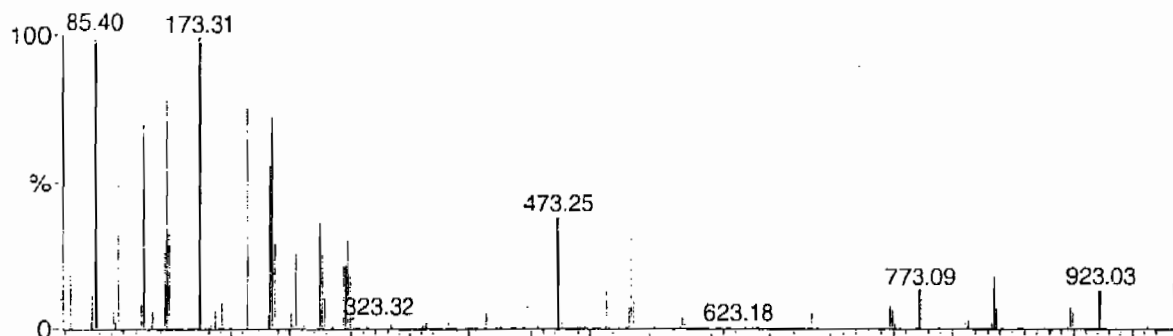
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

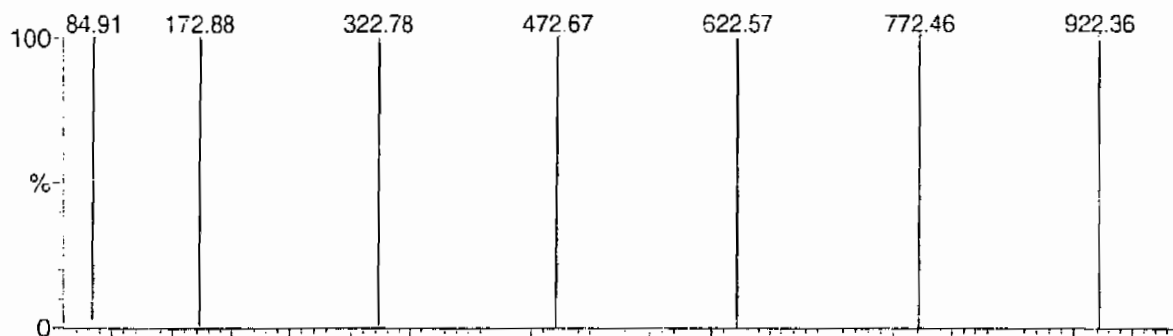
Printed: Tue Jan 08 12:21:04 2008

Data file: FASTMS1 - Uncalibrated

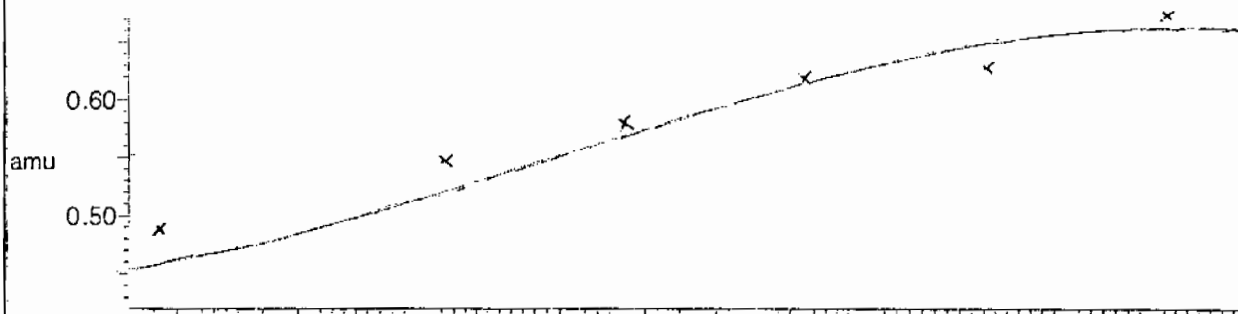
7 matches of 7 tested references



Reference file: Nairb

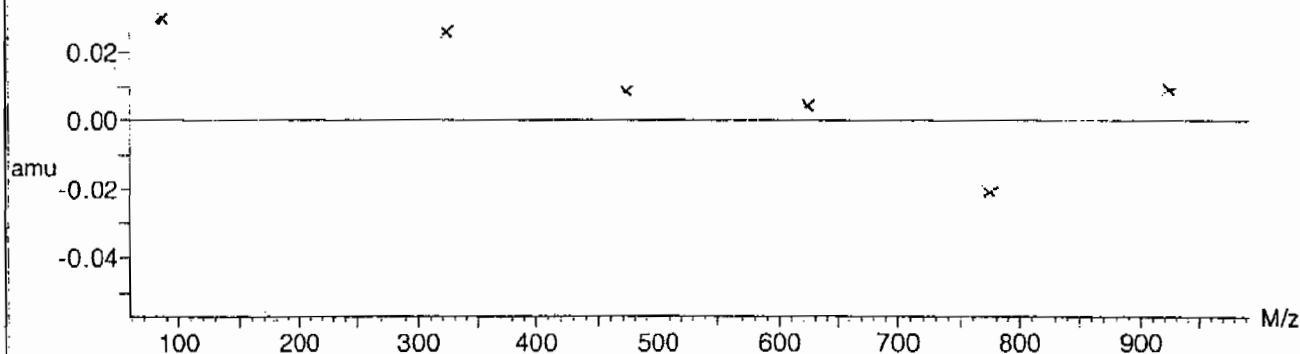


Mass difference (Raw - Ref mass)



Residuals

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



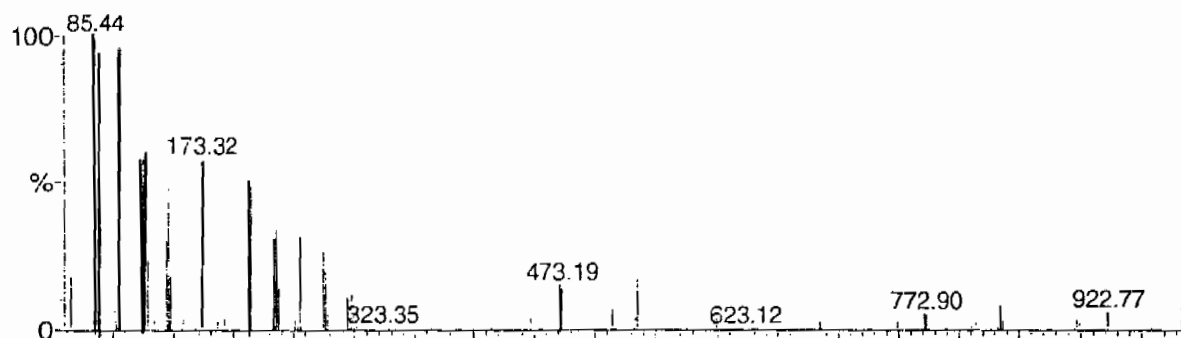
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

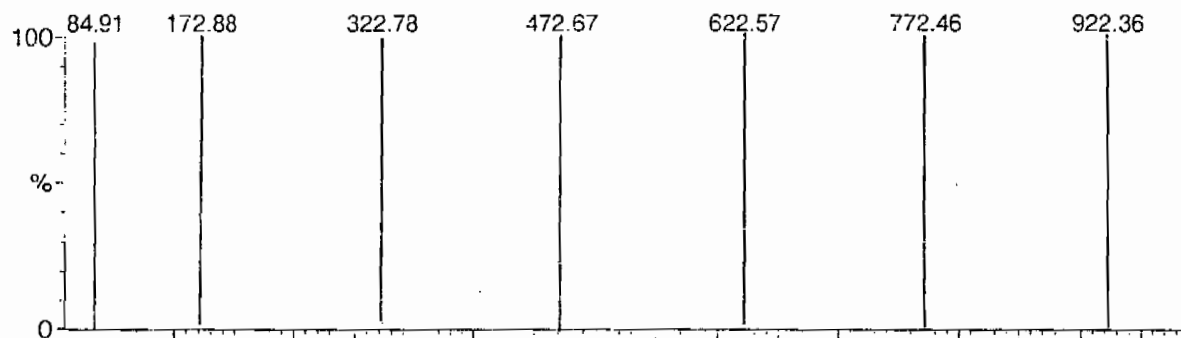
Printed: Tue Jan 08 12:23:51 2008

Data file: FASTMS2 - Uncalibrated

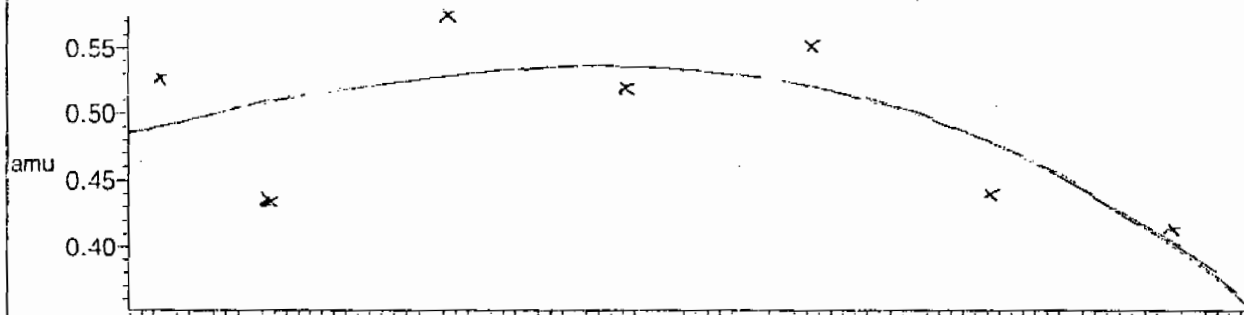
7 matches of 7 tested references



Reference file: Nairb

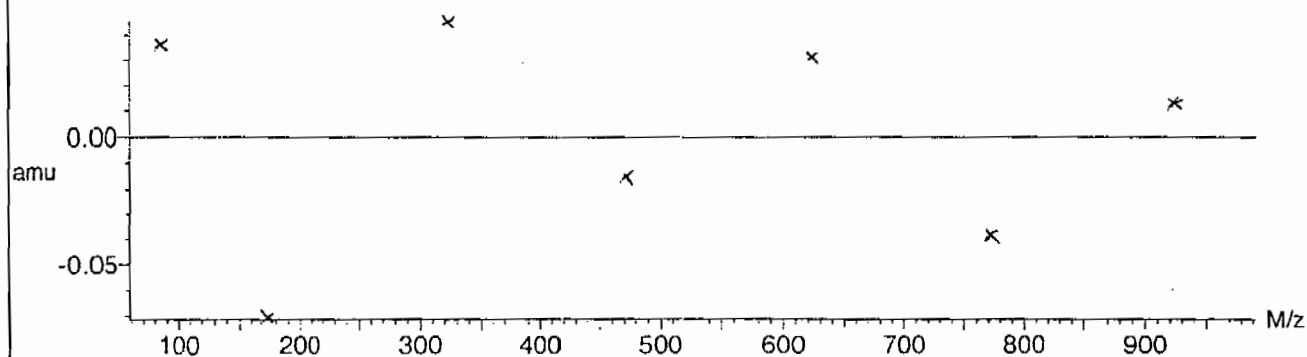


Mass difference (Raw - Ref mass)



Residuals

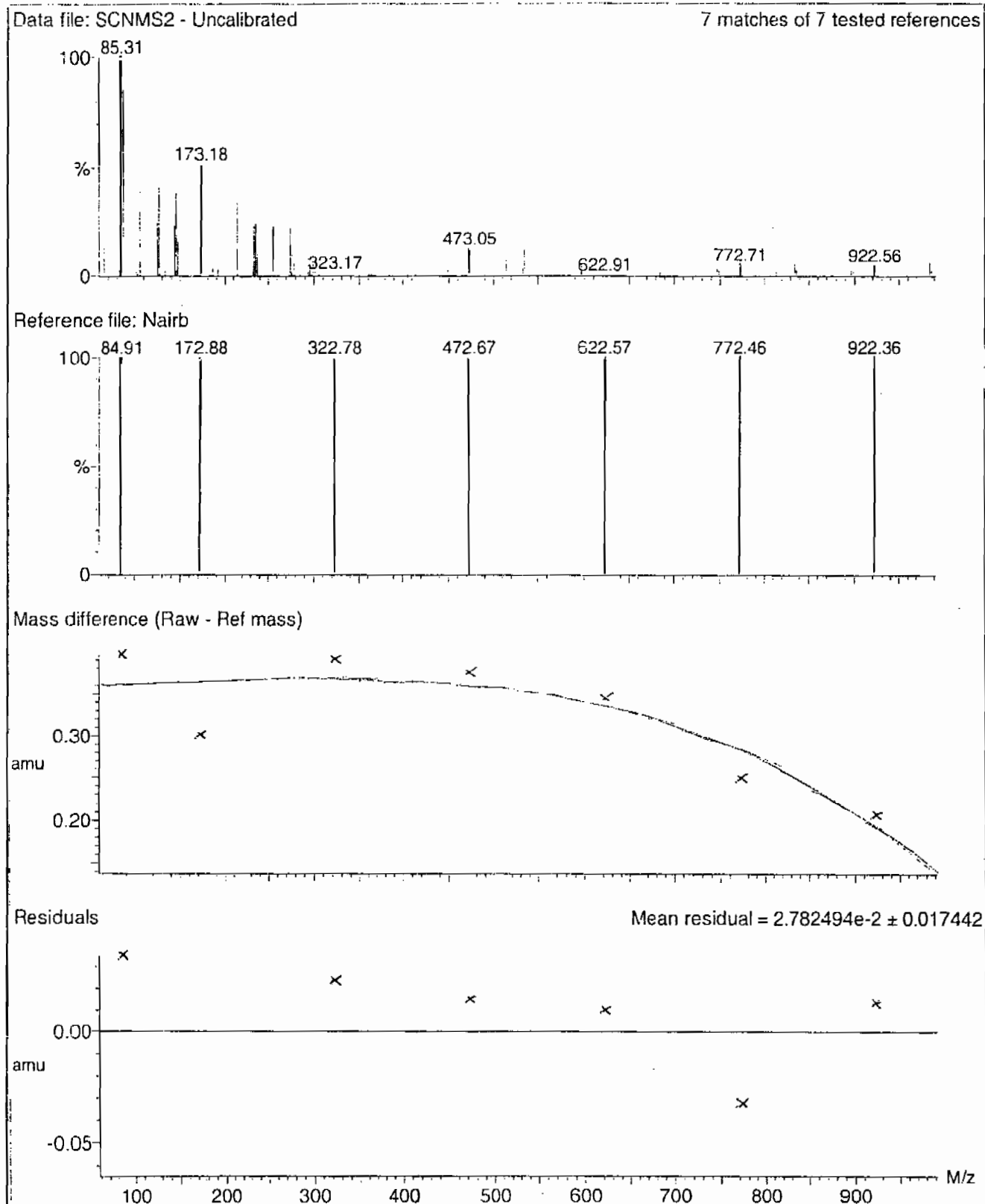
Mean residual = $3.598289 \times 10^{-2} \pm 0.017899$



Calibration Report - MS2 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:22:56 2008



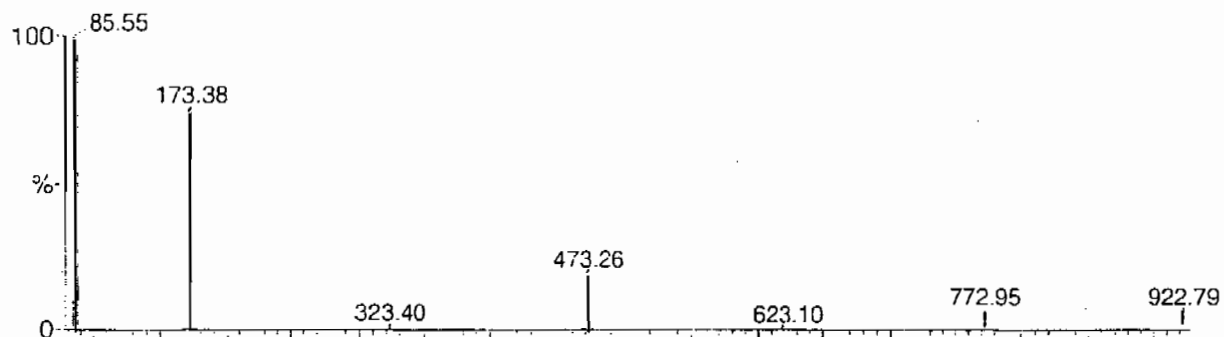
Calibration Report - MS2 Static

Page 1 of 1

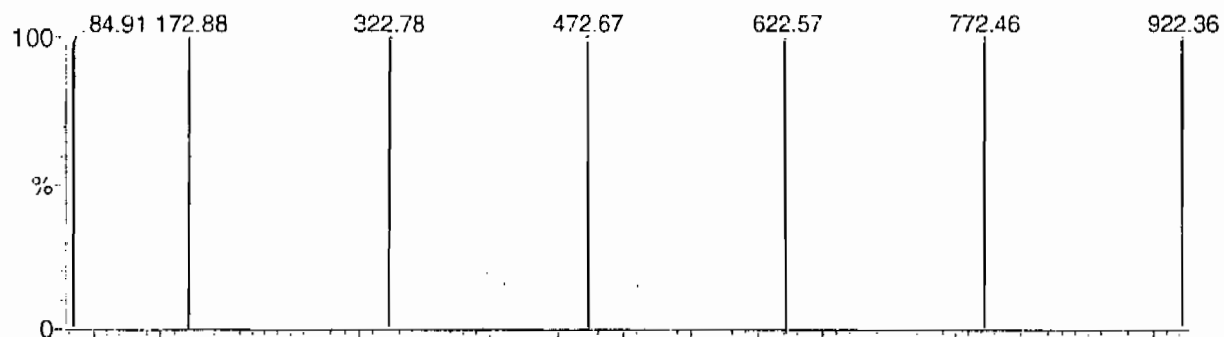
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

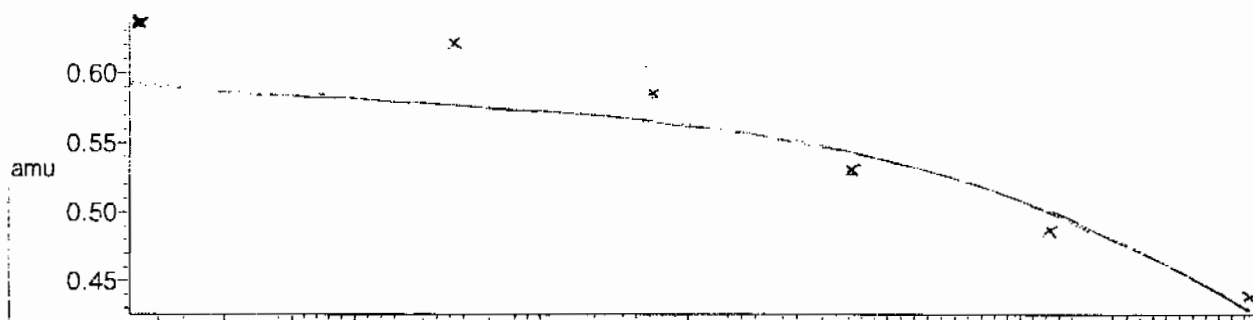
7 matches of 7 tested references



Reference file: Nairb

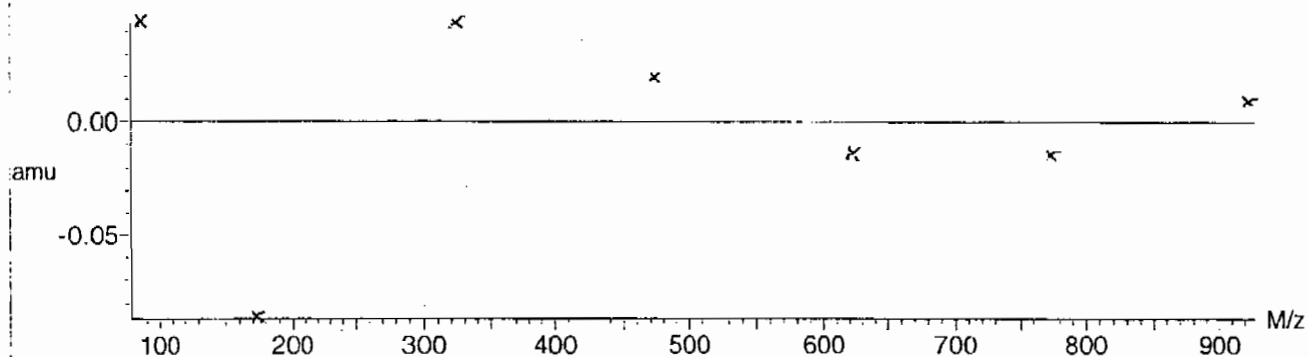


Mass difference (Raw - Ref mass)



Residuals

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



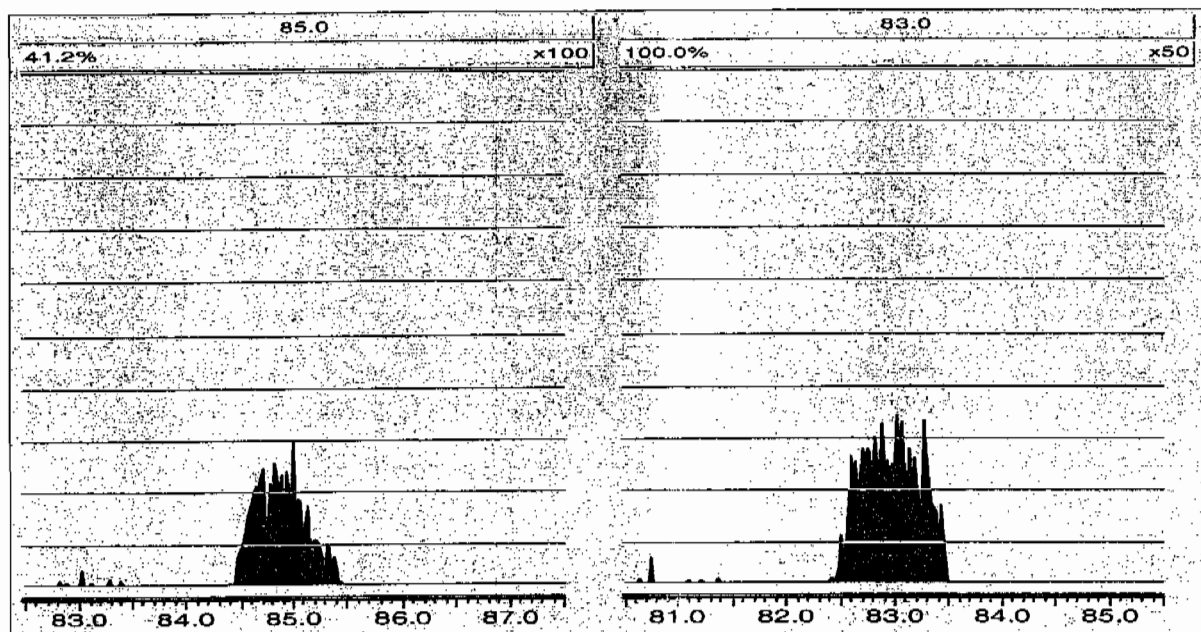
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Thursday, January 28, 2010 14:09:38 Eastern Standard Time



Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1303

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	per0128006a	28-JAN-10	18291.2				
Lower Area Limit			9145.6				
Upper Area Limit			36582.4				
1202024339	per0128016a	28-JAN-10 16:12	17458.2	2.82	2.83692	1.006	
1202024340	per0128017a	28-JAN-10 16:20	22059.8	2.84	2.86177	1.008	
1202024343	per0128018a	28-JAN-10 16:28	17722.1	2.73	2.73747	1.003	
245136001	per0128023a	28-JAN-10 17:08	18921.4	2.81	2.83692	1.01	
1202024341	per0128024a	28-JAN-10 17:16	18518.1	2.8	2.81197	1.004	
1202024342	per0128025a	28-JAN-10 17:24	20377.8	2.8	2.81202	1.004	
245136002	per0128026a	28-JAN-10 17:33	18018.5	2.8	2.81202	1.004	
245136003	per0128027a	28-JAN-10 17:41	20648.1	2.8	2.81198	1.004	

Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories
GEL Job No.(SDG): 10-1303

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	per0128006a	28-JAN-10	18291.2				
Lower Area Limit			9145.6				
Upper Area Limit			36582.4				
245136004	per0128028a	28-JAN-10 17:49	21223.5	2.79	2.79963	1.003	
245136005	per0128029a	28-JAN-10 17:57	18501.7	2.8	2.81198	1.004	
245136006	per0128030a	28-JAN-10 18:05	19226.6	2.8	2.812	1.004	
245136007	per0128031a	28-JAN-10 18:13	19969.7	2.79	2.79963	1.003	
245136008	per0128032a	28-JAN-10 18:21	19905.7	2.77	2.78722	1.006	
245136009	per0128036a	28-JAN-10 18:53	18675.7	2.77	2.79965	1.011	
245136010	per0128037a	28-JAN-10 19:01	19643.6	2.79	2.81203	1.008	
245136011	per0128038a	28-JAN-10 19:09	19434.7	2.77	2.78717	1.006	

Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-1303

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	per0128006a	28-JAN-10	18291.2				
Lower Area Limit			9145.6				
Upper Area Limit			36582.4				
245136012	per0128039a	28-JAN-10 19:17	19161.4	2.76	2.7624	1.001	
245136013	per0128040a	28-JAN-10 19:25	18686.1	2.75	2.7624	1.005	

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: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7194

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136001

Date Filtered: 27-JAN-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	0.630	ug/kg	U	1	28-JAN-10 17:08	per0128023a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:08	per0128023a
14797-73-0	Perchlorate-101	.63	2.52	0.630	ug/kg	U	1	28-JAN-10 17:08	per0128023a
	Perchlorate-O(18)			6.45	ug/kg		1	28-JAN-10 17:08	per0128023a

[^] 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\per012810a.qtd

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128023a

Date: 28-Jan-2010

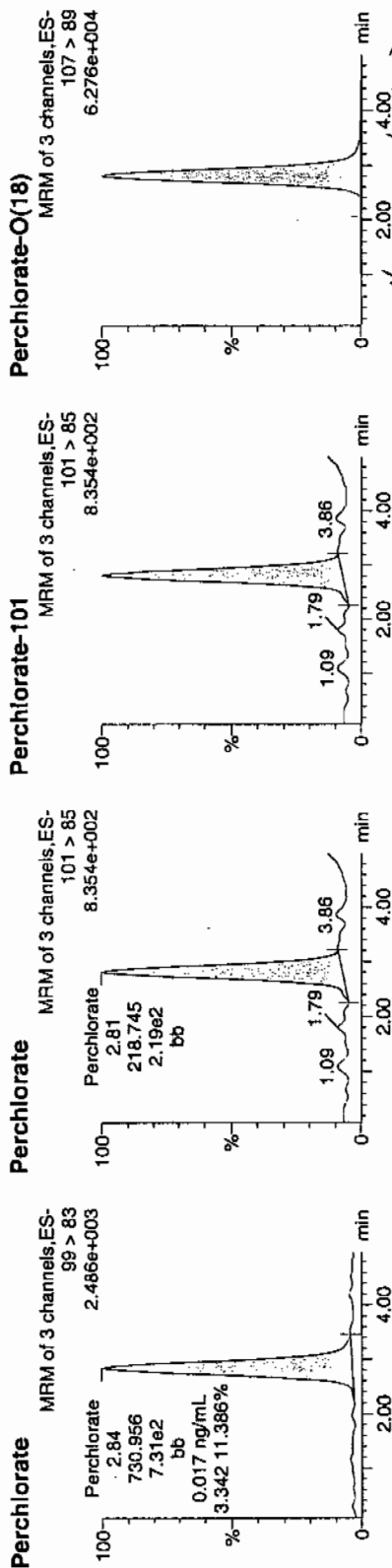
Time: 17:08:55

ID: 245136001

Vial: 1:4.E

01-29-10

1220-1945198 | 5020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245136001	Perchlorate	99 > 83	2.84	730.956	730.956	bb			0.0165			190.137	3.34
245136001	Perchlorate-101	101 > 85	2.81	218.745	218.745	bb			0.0144			199.776	
245136001	Perchlorate-O(18)	107 > 89	2.81	18921.422	18921.422	bb			0.5117	102.34	2.34	9639.8...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 245197
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7186
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303
 GEL Sample ID: 245136002
 Date Filtered: 27-JAN-10
 Injection Volume (uL): 20
 %Solids: 81

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.614	2.46	0.614	ug/kg	U	1	28-JAN-10 17:33	per0128026a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:33	per0128026a
14797-73-0	Perchlorate-101	.614	2.46	0.614	ug/kg	U	1	28-JAN-10 17:33	per0128026a
	Perchlorate-O(18)			5.98	ug/kg		1	28-JAN-10 17:33	per0128026a

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

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

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

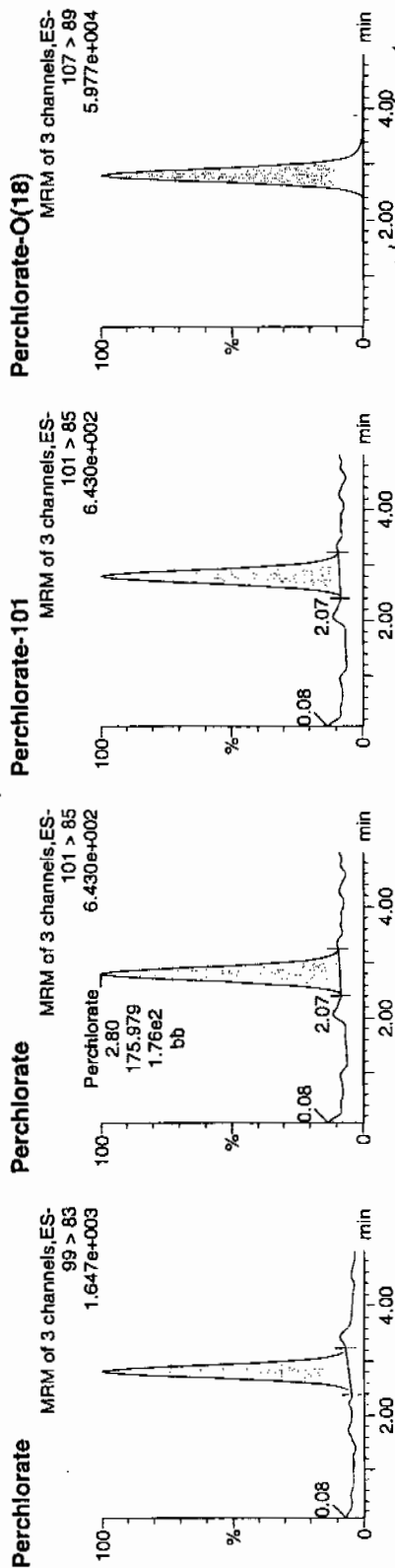
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Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128026a
Date: 28-Jan-2010
Time: 17:33:02
ID: 245136002
Vial: 1:5.B

01-29-10

12221945198 | 5025 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245136002	Perchlorate	99 > 83	2.81	446.317	446.317	bb			0.0101			57.445	2.54
245136002	Perchlorate-101	101 > 85	2.80	175.979	175.979	bb			0.0116			90.184	
245136002	Perchlorate-O(18)	107 > 89	2.80	18018.463	18018.463	bb			0.4873	97.45	-2.55	4893.4...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7191

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136003

Date Filtered: 27-JAN-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	.585	2.34	0.585	ug/kg	U	1	28-JAN-10 17:41	per0128027a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:41	per0128027a
14797-73-0	Perchlorate-101	.585	2.34	0.585	ug/kg	U	1	28-JAN-10 17:41	per0128027a
	Perchlorate-O(18)			6.54	ug/kg		1	28-JAN-10 17:41	per0128027a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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

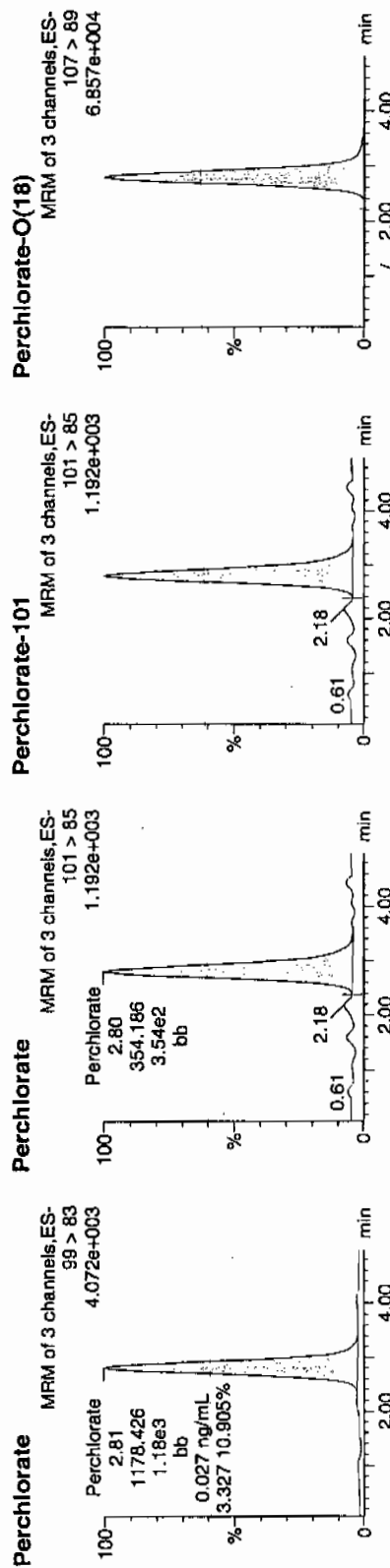
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Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128027a
Date: 28-Jan-2010
Time: 17:41:05
ID: 245136003
Vial: 1:5,C

01-29-10

LANU | 945178 | 3000 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245136003	Perchlorate	99 > 83	2.81	1178.426	1178.426	bb			0.0266			540.395	3.33
245136003	Perchlorate-101	101 > 85	2.80	354.186	354.186	bb			0.0234			113.123	
245136003	Perchlorate-O(18)	107 > 89	2.80	20648.063	20648.063	bb			0.5584	111.68	11.68	9793.3...	

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

Perchlorate Analysis Data Sheet

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

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 245197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7195

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136004

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 90

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.556	2.22	0.556	ug/kg	U	1	28-JAN-10 17:49	per0128028a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:49	per0128028a
14797-73-0	Perchlorate-101	.556	2.22	0.556	ug/kg	U	1	28-JAN-10 17:49	per0128028a
	Perchlorate-O(18)			6.38	ug/kg		1	28-JAN-10 17:49	per0128028a

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

*Concentration =

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

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

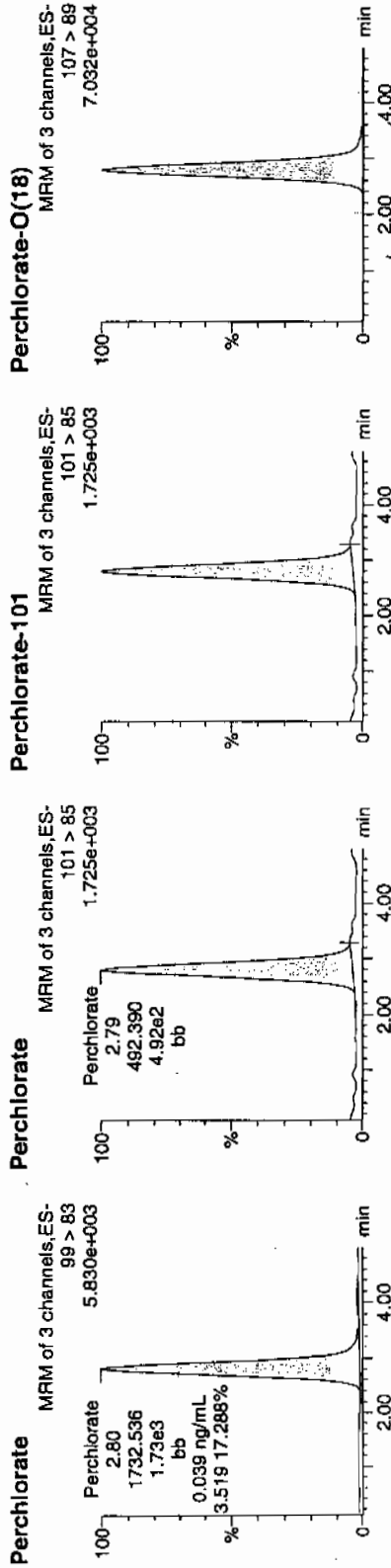
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Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128028a
Date: 28-Jan-2010
Time: 17:49:08
ID: 245136004
Vial: 1:5,D

0000
01-29-10

12001945198 | 5020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245136004	Perchlorate	99 > 83	2.80	1732.536	1732.536	bb			0.0392			587.958	3.52
245136004	Perchlorate-101	101 > 85	2.79	492.390	492.390	bb			0.0325			813.081	
245136004	Perchlorate-O(18)	107 > 89	2.79	21223.523	21223.523	bb			0.5739	114.79	14.79	1177.2...	

Perchlorate Analysis Data Sheet

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

Lab Name: GEL Laboratories LLCLab Code: GELInstrument: LCMSMSMethod: SW846 6850 ModifiedMatrix: SOILExtraction Batch ID: 945197Extraction Type: Solid PrepSample Volume/Weight: 2.00 gConcentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7196Date Received: 20-JAN-10GEL Job No (SDG): 10-1303GEL Sample ID: 245136005Date Filtered: 27-JAN-10Injection Volume (uL): 20%Solids: 76

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.655	2.62	0.655	ug/kg	U	1	28-JAN-10 17:57	per0128029a
	Perchlorate Isotope Ratio						1	28-JAN-10 17:57	per0128029a
14797-73-0	Perchlorate-101	.655	2.62	0.655	ug/kg	U	1	28-JAN-10 17:57	per0128029a
	Perchlorate-O(18)			6.55	ug/kg		1	28-JAN-10 17:57	per0128029a

[^] 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\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128029a

Date: 28-Jan-2010

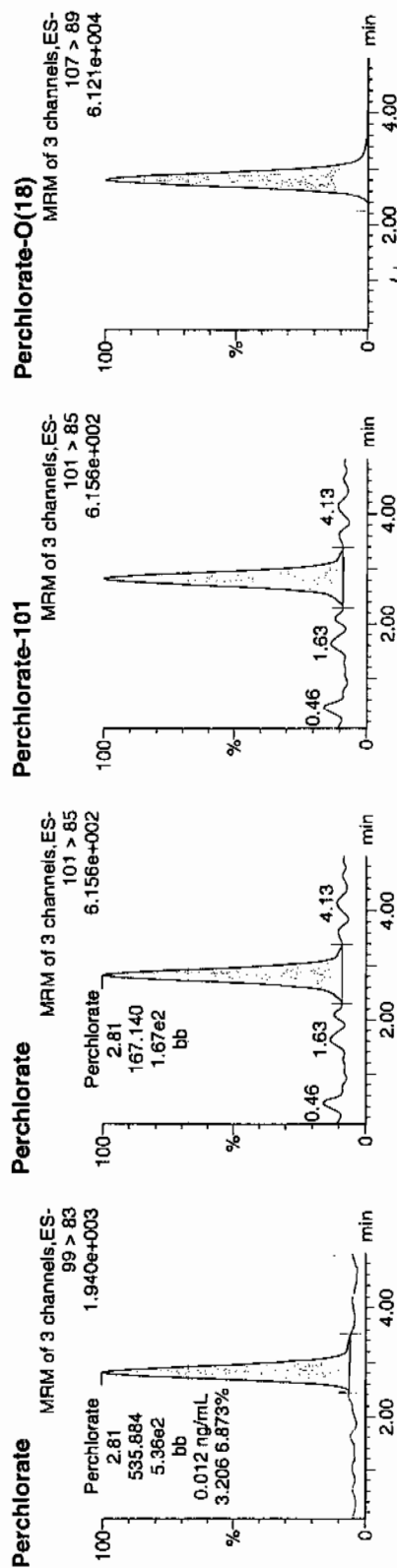
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ID: 245136005

Vial: 1:5,E

01-29-10

1245136005 | 5020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245136005	Perchlorate	99 > 83	2.81	535.884	535.884	bb			0.0121			337.318	3.21
245136005	Perchlorate-101	101 > 85	2.81	167.140	167.140	bb			0.0110			14.928	
245136005	Perchlorate-O(18)	107 > 89	2.80	18501.713	18501.713	bb			0.5003	100.07	✓	0.07	8598.8...

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7197

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136006

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 86

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.584	2.34	0.584	ug/kg	U	1	28-JAN-10 18:05	per0128030a
	Perchlorate Isotope Ratio						1	28-JAN-10 18:05	per0128030a
14797-73-0	Perchlorate-101	.584	2.34	0.584	ug/kg	U	1	28-JAN-10 18:05	per0128030a
	Perchlorate-O(18)			6.08	ug/kg		1	28-JAN-10 18:05	per0128030a

[^] 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\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128030a

Date: 28-Jan-2010

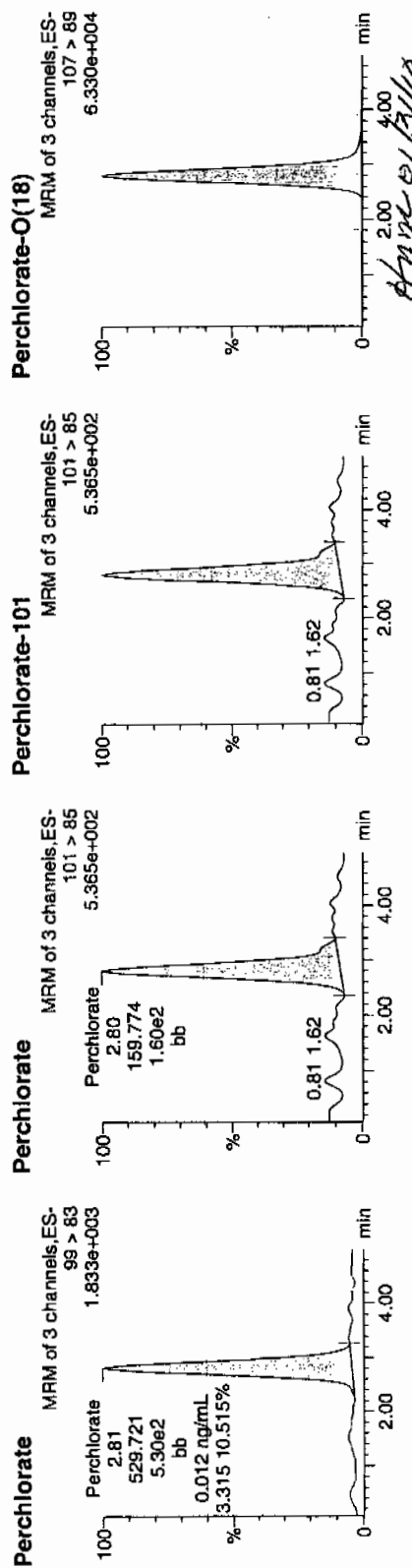
Time: 18:05:13

ID: 245136006

Vial: 1:5,F

666
01-29-10

1500 1945193 | 5000 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
245136006	Perchlorate	99 > 83	2.81	529.721	529.721	bb			0.0120			198.298	3.32
245136006	Perchlorate-101	101 > 85	2.80	159.774	159.774	bb			0.0106			98.959	
245136006	Perchlorate-O(18)	107 > 89	2.80	19226.566	19226.566	bb			0.5199	103.99	3.99	6049.7	

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: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7193

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136007

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 81

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.617	2.47	0.617	ug/kg	U	1	28-JAN-10 18:13	per0128031a
	Perchlorate Isotope Ratio						1	28-JAN-10 18:13	per0128031a
14797-73-0	Perchlorate-101	.617	2.47	0.617	ug/kg	U	1	28-JAN-10 18:13	per0128031a
	Perchlorate-O(18)			6.67	ug/kg		1	28-JAN-10 18:13	per0128031a

[^] 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

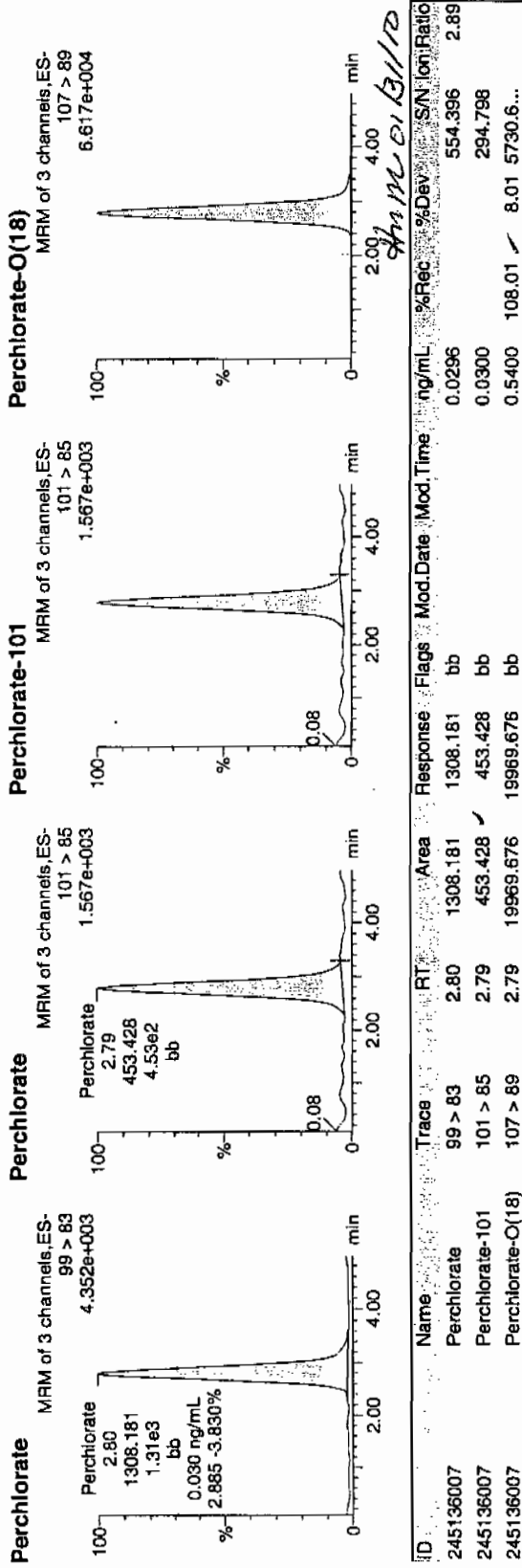
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Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128031a
Date: 28-Jan-2010
Time: 18:13:15
ID: 245136007
Vial: 1:6,A

0.24-10

167441945193 | 50020 | 11



Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7189

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136008

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 90.8

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.551	2.2	0.646	ug/kg	J	1	28-JAN-10 18:21	per0128032a
	Perchlorate Isotope Ratio			3.01			1	28-JAN-10 18:21	per0128032a
14797-73-0	Perchlorate-101	.551	2.2	0.626	ug/kg	J	1	28-JAN-10 18:21	per0128032a
	Perchlorate-O(18)			5.93	ug/kg		1	28-JAN-10 18:21	per0128032a

[^] 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

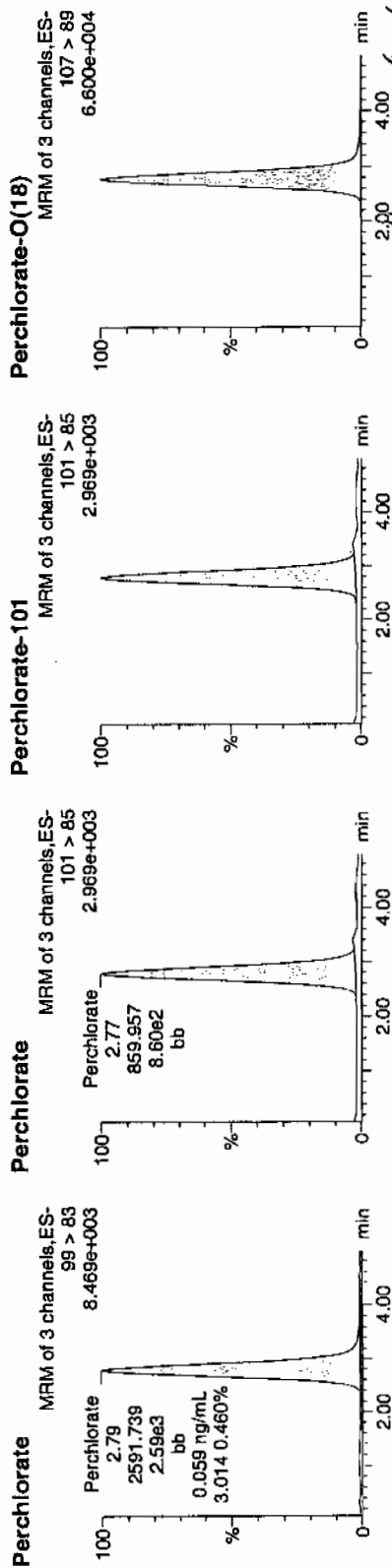
Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128032a
Date: 28-Jan-2010
Time: 18:21:19
ID: 245136008
Vial: 1:6,B

01-29-10

1500 | 945198 | 5000 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
245136008	Perchlorate	99 > 83	2.79	2591.739	2591.739	bb			0.0586			163.936	3.01
245136008	Perchlorate-101	101 > 85	2.77	859.957	859.957	bb			0.0568			351.114	
245136008	Perchlorate-O(18)	107 > 89	2.77	19905.654	19905.654	bb			0.5383	107.66	7.66	4451.6...	

Perchlorate Analysis Data Sheet

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Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7187

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136009

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 20.7

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.552	2.21	0.552	ug/kg	U	1	28-JAN-10 18:53	per0128036a
	Perchlorate Isotope Ratio						1	28-JAN-10 18:53	per0128036a
14797-73-0	Perchlorate-101	.552	2.21	0.552	ug/kg	U	1	28-JAN-10 18:53	per0128036a
	Perchlorate-O(18)			5.57	ug/kg		1	28-JAN-10 18:53	per0128036a

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

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

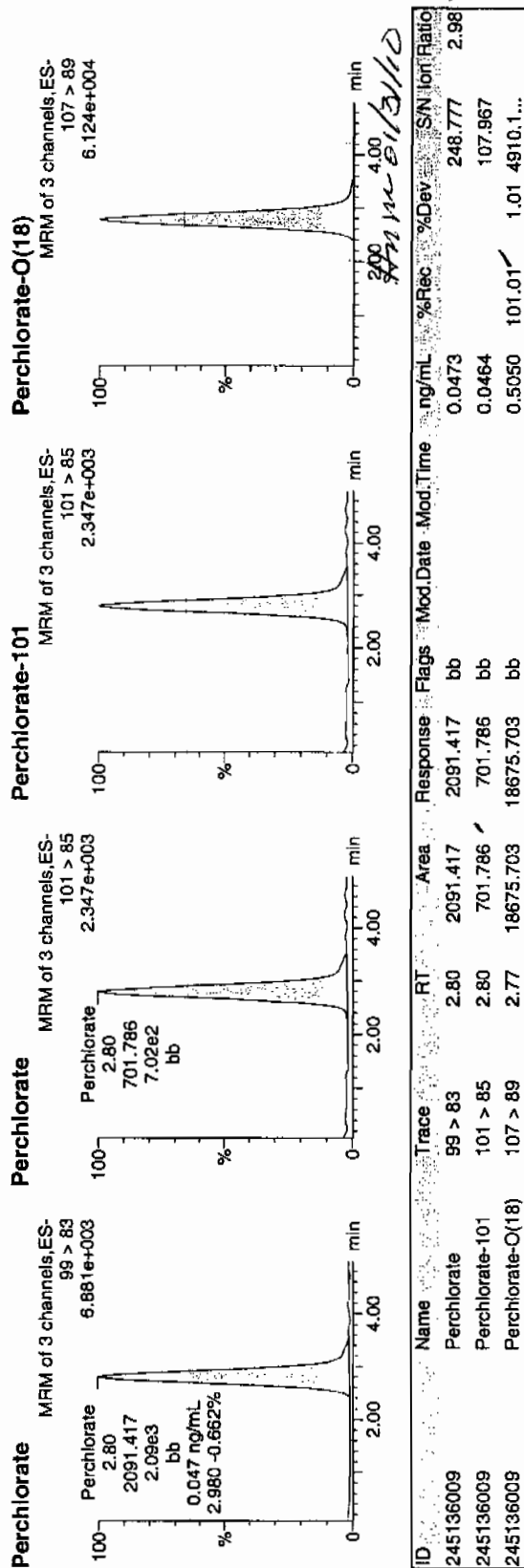
Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qtd

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128036a
Date: 28-Jan-2010
Time: 18:53:30
ID: 245136009
Vial: 1:6,C

01-29-10

1245197 | 5020 | 1 |



Perchlorate Analysis Data Sheet

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

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 245197
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-7188
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303
 GEL Sample ID: 245136010
 Date Filtered: 27-JAN-10
 Injection Volume (uL): 20
 %Solids: 88

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	.571	2.28	0.889	ug/kg	J	1	28-JAN-10 19:01	per0128037a
	Perchlorate Isotope Ratio			2.96			1	28-JAN-10 19:01	per0128037a
14797-73-0	Perchlorate-101	.571	2.28	0.879	ug/kg	J	1	28-JAN-10 19:01	per0128037a
	Perchlorate-O(18)			6.07	ug/kg		1	28-JAN-10 19:01	per0128037a

[^] 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\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128037a

Date: 28-Jan-2010

Time: 19:01:33

ID: 245136010

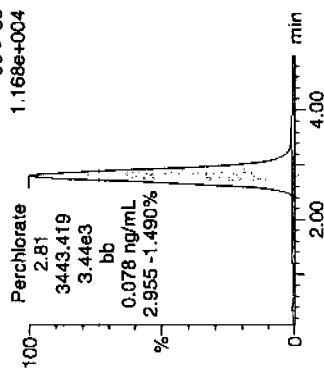
Vial: 1:6,D

01-29-10

1222 1945198 5020 11

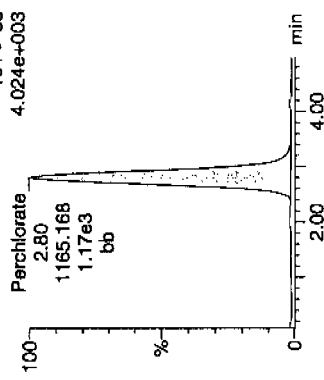
Perchlorate

MRM of 3 channels, ES-
99 > 83
1.168e+004



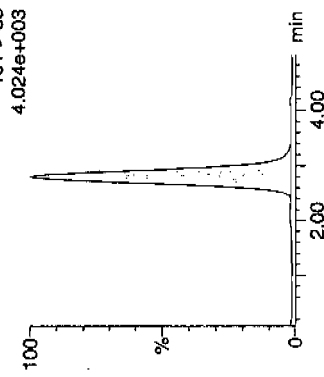
Perchlorate

MRM of 3 channels, ES-
101 > 85
4.024e+003



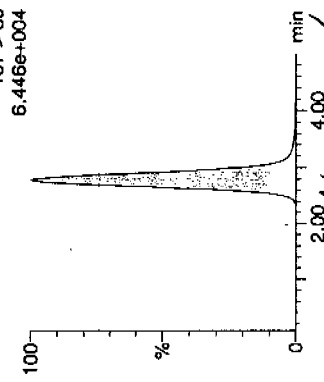
Perchlorate-101

MRM of 3 channels, ES-
101 > 85
4.024e+003



Perchlorate-O(18)

MRM of 3 channels, ES-
107 > 89
6.446e+004



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245136010	Perchlorate	99 > 83	2.81	3443.419	3443.419	bb			0.0779			990.144	2.96
245136010	Perchlorate-101	101 > 85	2.80	1165.168	1165.168	bb			0.0770			948.074	
245136010	Perchlorate-O(18)	107 > 89	2.79	19643.566	19643.566	bb			0.5312	106.24	6.24	1860.3...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 245197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7190

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136011

Date Filtered: 27-JAN-10

Injection Volume (nL): 20

%Solids: 72

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.698	2.79	0.698	ug/kg	U	1	28-JAN-10 19:09	per0128038a
	Perchlorate Isotope Ratio						1	28-JAN-10 19:09	per0128038a
14797-73-0	Perchlorate-101	.698	2.79	0.698	ug/kg	U	1	28-JAN-10 19:09	per0128038a
	Perchlorate-O(18)			7.33	ug/kg		1	28-JAN-10 19:09	per0128038a

[^] 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

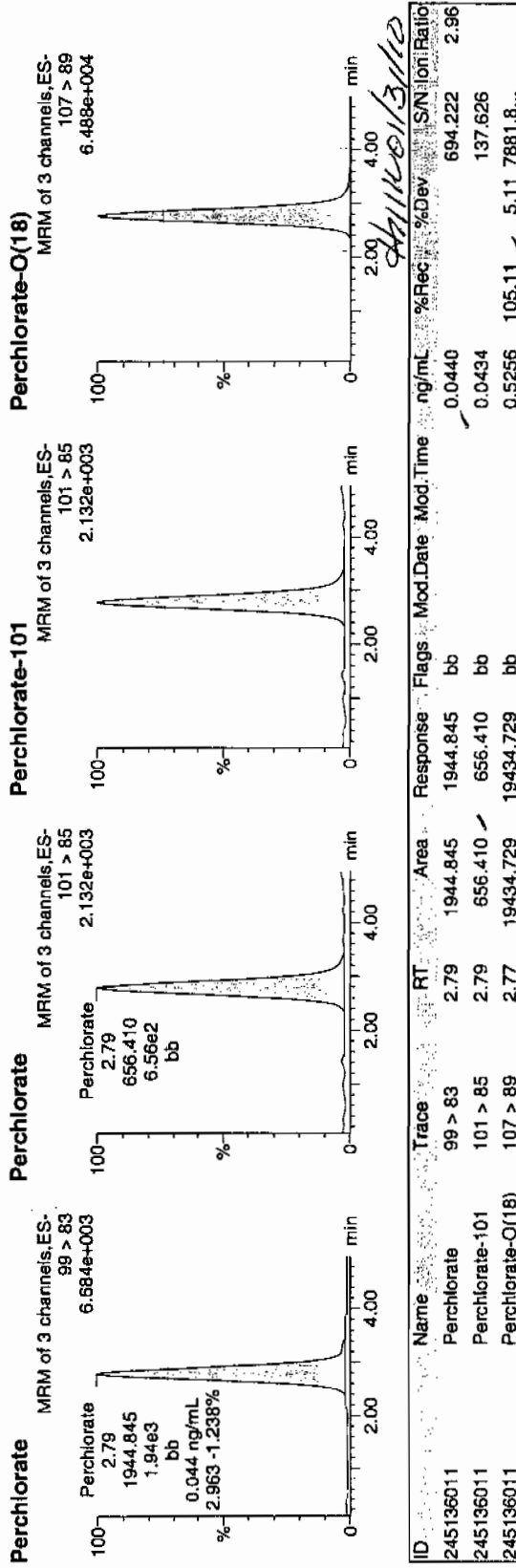
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128038a
Date: 28-Jan-2010
Time: 19:09:36
ID: 245136011
Vial: 1:6,E

11920 1945 192 | 5020 | 1 |
01-29-10



Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7192

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136012

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids: 66

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.762	3.05	0.762	ug/kg	U	1	28-JAN-10 19:17	per0128039a
	Perchlorate Isotope Ratio						1	28-JAN-10 19:17	per0128039a
14797-73-0	Perchlorate-101	.762	3.05	0.762	ug/kg	U	1	28-JAN-10 19:17	per0128039a
	Perchlorate-O(18)			7.90	ug/kg		1	28-JAN-10 19:17	per0128039a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128039a

Date: 28-Jan-2010

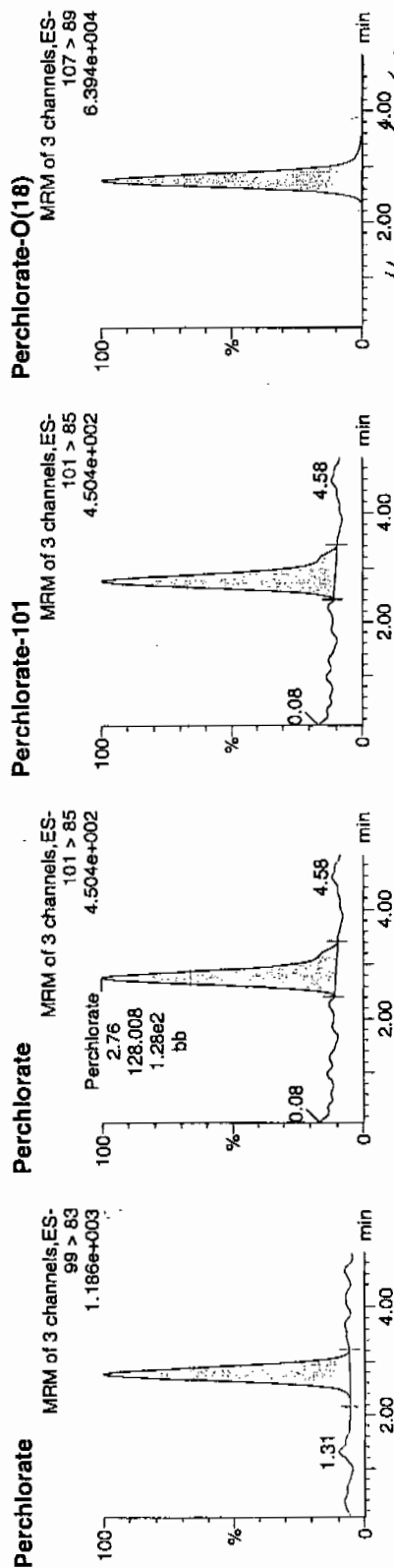
Time: 19:17:38

ID: 245136012

Vial: 1:6,F

01-29-10

1222-145143 / 5020 / 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
245136012	Perchlorate	99 > 83	2.76	345.028	345.028	bb			0.0078			74.084	2.70
245136012	Perchlorate-101	101 > 85	2.76	128.008	128.008	bb			0.0085			18.606	
245136012	Perchlorate-O(18)	107 > 89	2.76	19161.426	19161.426	bb			0.5182	103.63	3.63	378.929	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 945197

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7219

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303

GEL Sample ID: 245136013

Date Filtered: 27-JAN-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	.651	2.6	0.651	ug/kg	U	1	28-JAN-10 19:25	per0128040a
	Perchlorate Isotope Ratio						1	28-JAN-10 19:25	per0128040a
14797-73-0	Perchlorate-101	.651	2.6	0.651	ug/kg	U	1	28-JAN-10 19:25	per0128040a
	Perchlorate-O(18)			6.58	ug/kg		1	28-JAN-10 19:25	per0128040a

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

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128040a

Date: 28-Jan-2010

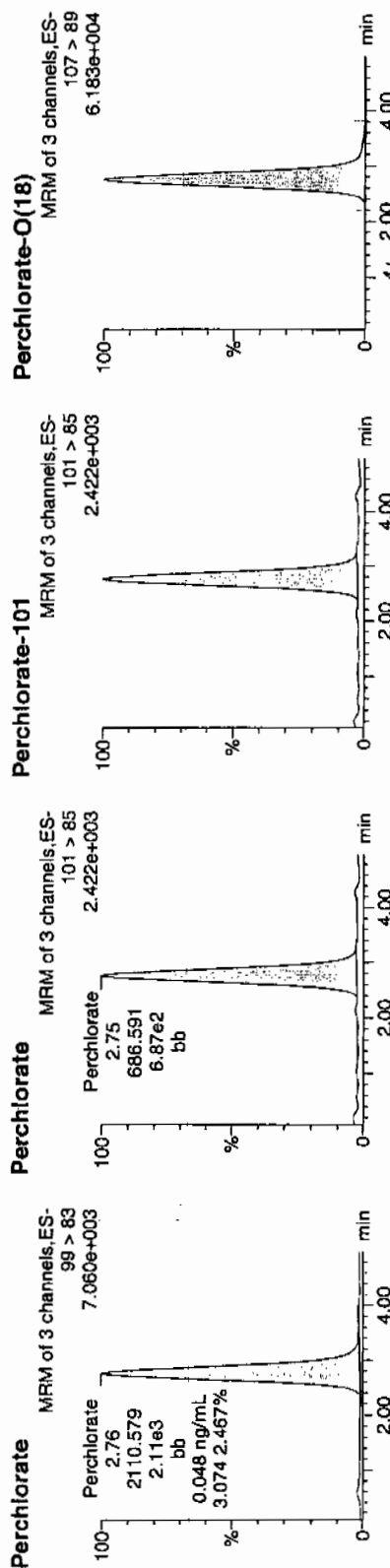
Time: 19:25:40

ID: 245136013

Vial: 1:7,A

01-29-10

167NUL945198 | 3020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245136013	Perchlorate	99 > 83	2.76	2110.579	2110.579	bb			0.0477			286.128	3.07
245136013	Perchlorate-101	101 > 85	2.75	686.591	686.591	bb			0.0454			476.866	
245136013	Perchlorate-O(18)	107 > 89	2.75	18686.066	18686.066	bb			0.5053	101.06	1.06	2805.4...	

Handwritten signature/initials

STANDARDS DATA

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1303

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 28-JAN-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

Coefficient of Determination:

Calibration Curve: 44230.14

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1303

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 28-JAN-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: 15138.32

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\per012810a.qtd

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time

Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per012810a.mdb 29 Jan 2010 09:44:48

Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per012810a.cdb 29 Jan 2010 09:45:00

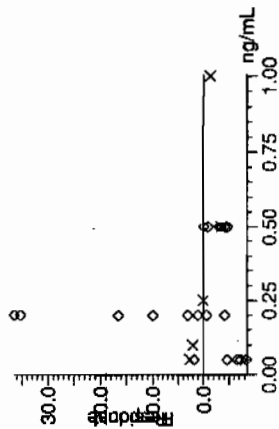
Compound name: Perchlorate

Response Factor: 44230.1

RRF SD: 1109.38, % Relative SD: 2.5082

Response type: External Std, Area

Curve type: RF



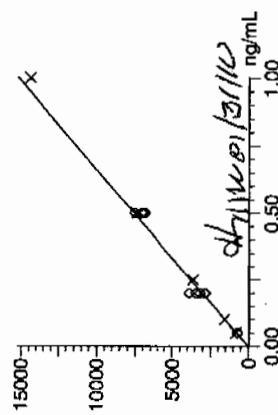
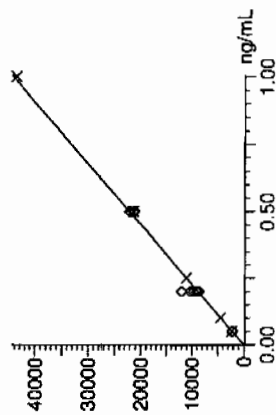
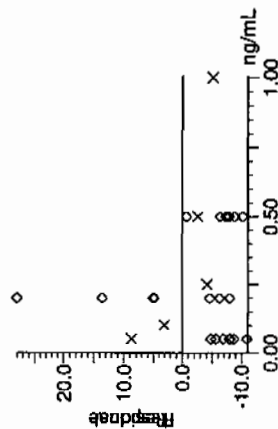
Compound name: Perchlorate-101

Response Factor: 15138.3

RRF SD: 879.277, % Relative SD: 5.80829

Response type: External Std, Area

Curve type: RF



09-29-10

Quantify Calibration Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Page 2 of 2

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time

Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

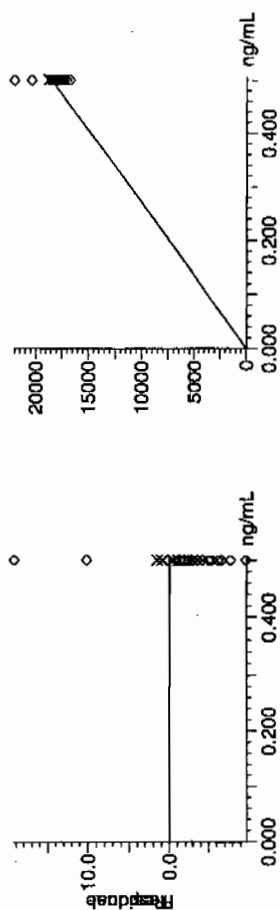
Compound name: Perchlorate-O(18)

Response Factor: 36978.7

RRF SD: 452.594, % Relative SD: 1.22393 ✓

Response type: External Std, Area

Curve type: RF



Perchlorate Initial Calibration Verification

GEL Job No.(SDG): 10-1303

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.5	99.87	28-JAN-10 15:16	per0128009a
Perchlorate Isotope Ratio		2.94		28-JAN-10 15:16	per0128009a
Perchlorate-101	.5	.5	99.36	28-JAN-10 15:16	per0128009a

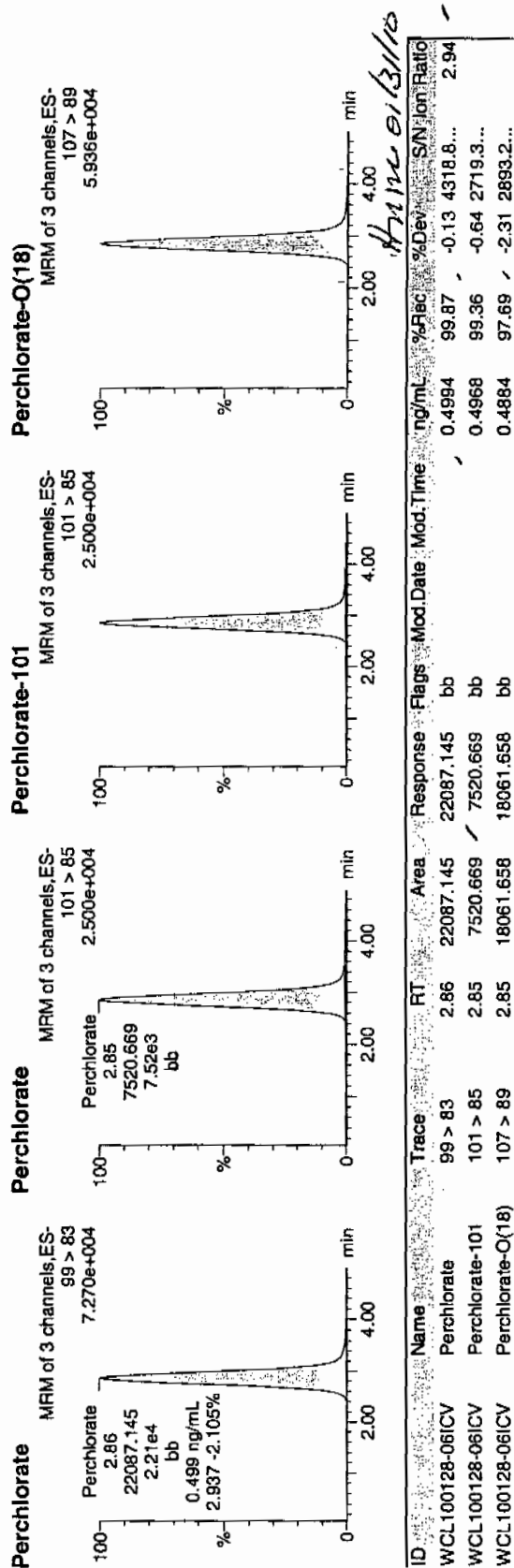
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\P perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128009a
Date: 28-Jan-2010
Time: 15:16:07
ID: WCL100128-06ICV
Vial: 1:2,A

Pure
CWS
01-29-10



Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1303

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.48	96.37	28-JAN-10 16:44	per0128020a
Perchlorate Isotope Ratio		3.13		28-JAN-10 16:44	per0128020a
Perchlorate-101	.5	.45	89.86	28-JAN-10 16:44	per0128020a
Perchlorate	.5	.5	99.06	28-JAN-10 18:29	per0128033a
Perchlorate Isotope Ratio		3.09		28-JAN-10 18:29	per0128033a
Perchlorate-101	.5	.47	93.7	28-JAN-10 18:29	per0128033a
Perchlorate	.5	.48	95.24	28-JAN-10 20:05	per0128045a
Perchlorate Isotope Ratio		3.05		28-JAN-10 20:05	per0128045a
Perchlorate-101	.5	.46	91.17	28-JAN-10 20:05	per0128045a

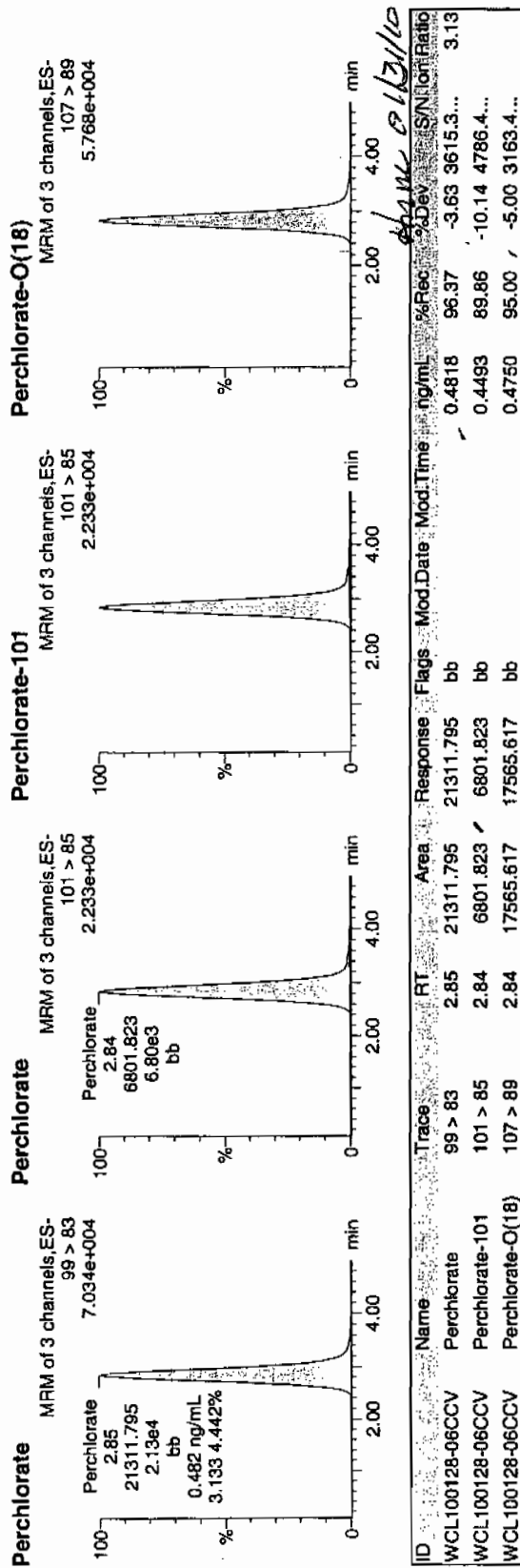
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128020a
Date: 28-Jan-2010
Time: 16:44:46
ID: WCL100128-06CCV
Vial: 1:2,A

Pass
WCL
01-29-10



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

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128033a

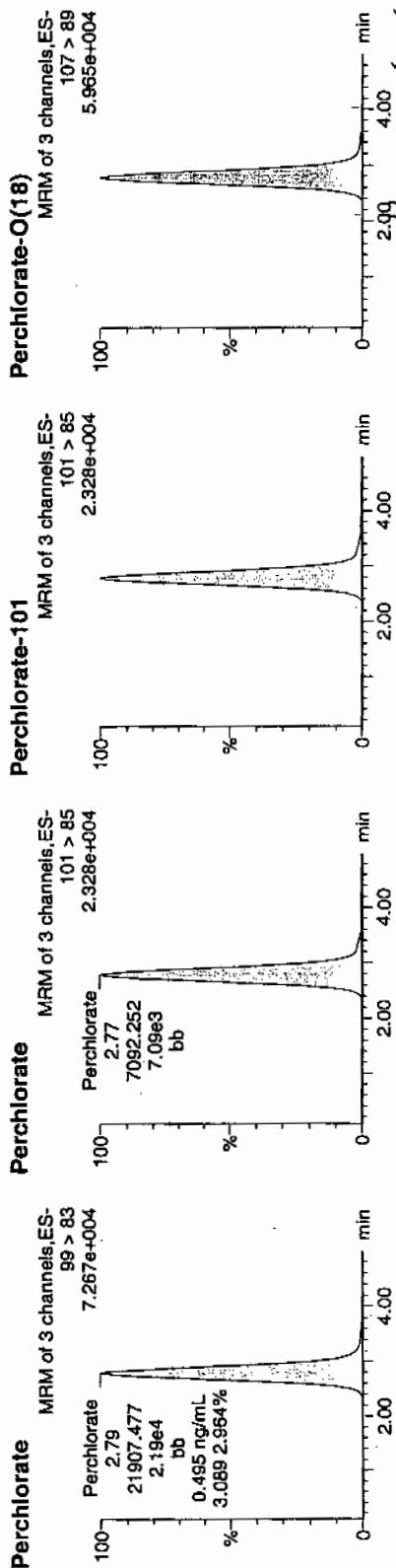
Date: 28-Jan-2010

Time: 18:29:23

ID: WCL100128-06CCV

Vial: 1:2,A

Pass
WCL
01-29-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100128-06CCV	Perchlorate	99 > 83	2.79	21907.477	21907.477	bb			0.4953	99.06	-0.94	11522...	3.09
WCL100128-06CCV	Perchlorate-101	101 > 85	2.77	7092.252	7092.252	bb			0.4685	93.70	-6.30	3251.4...	
WCL100128-06CCV	Perchlorate-O(18)	107 > 89	2.77	17985.309	17985.309	bb			0.4684	97.27	-2.73	997.699	

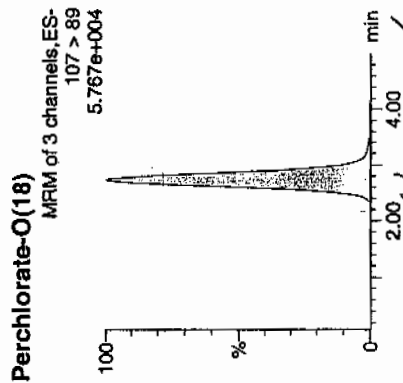
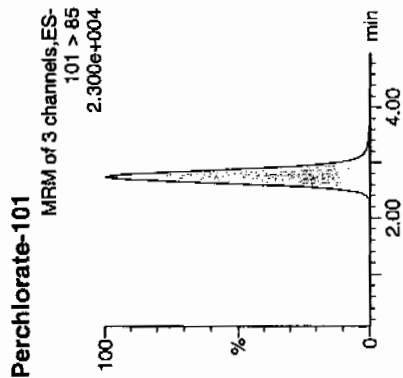
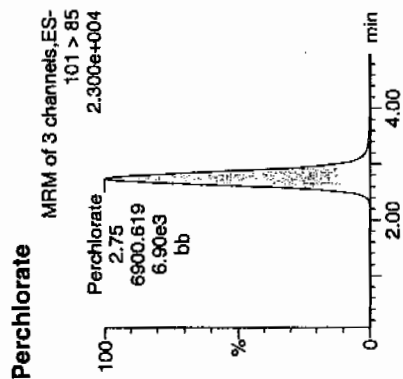
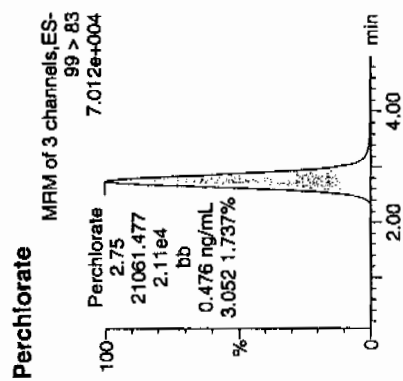
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128045a
Date: 28-Jan-2010
Time: 20:05:58
ID: WCL100128-06CCV
Vial: 1:2,A

Pass
over
01-29-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-06CCV	Perchlorate	99 > 83	2.75	21061.477	21061.477	bb			0.4762	95.24	-4.76	7155.9...	3.05
WCL100128-06CCV	Perchlorate-101	101 > 85	2.75	6900.619	6900.619	bb			0.4558	91.17	-8.83	1311.7...	
WCL100128-06CCV	Perchlorate-O(18)	107 > 89	2.74	17361.066	17361.066	bb			0.4695	93.90	-6.10	4696.9...	

amine oil/bld

Perchlorate MDL Verification

GEL Job No.(SDG): 10-1303

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	101.86	28-JAN-10 15:32	per0128011a
Perchlorate Isotope Ratio		3.12		28-JAN-10 15:32	per0128011a
Perchlorate-101	.05	.05	95.27	28-JAN-10 15:32	per0128011a
Perchlorate	.05	.05	95.45	28-JAN-10 17:00	per0128022a
Perchlorate Isotope Ratio		2.95		28-JAN-10 17:00	per0128022a
Perchlorate-101	.05	.05	94.42	28-JAN-10 17:00	per0128022a
Perchlorate	.05	.05	92.79	28-JAN-10 18:45	per0128035a
Perchlorate Isotope Ratio		2.95		28-JAN-10 18:45	per0128035a
Perchlorate-101	.05	.05	92.04	28-JAN-10 18:45	per0128035a
Perchlorate	.05	.05	91.77	28-JAN-10 20:22	per0128047a
Perchlorate Isotope Ratio		2.88		28-JAN-10 20:22	per0128047a

Form 3

Perchlorate MDL Verification

GEL Job No.(SDG): 10-1303

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate-101	.05	.05	93.11	28-JAN-10 20:22	per0128047a
-----------------	-----	-----	-------	-----------------	-------------

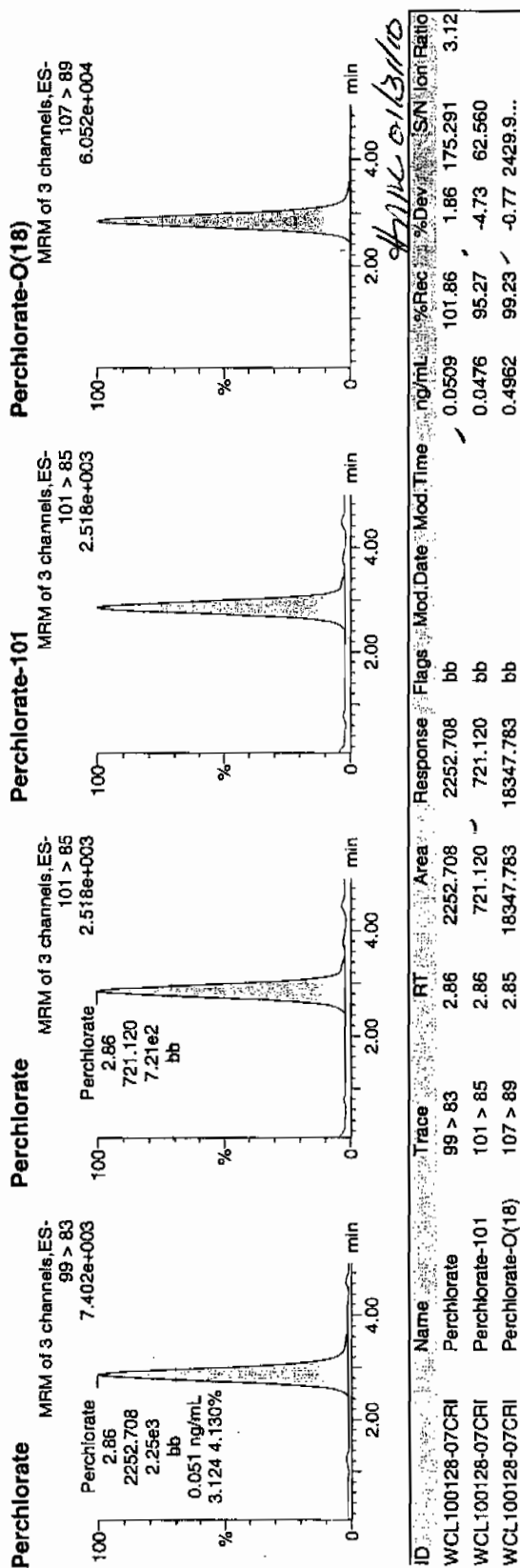
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128011a
Date: 28-Jan-2010
Time: 15:32:12
ID: WCL100128-07CRI
Vial: 1:2,B

Pass and 01-29-10



Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
 Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128022a

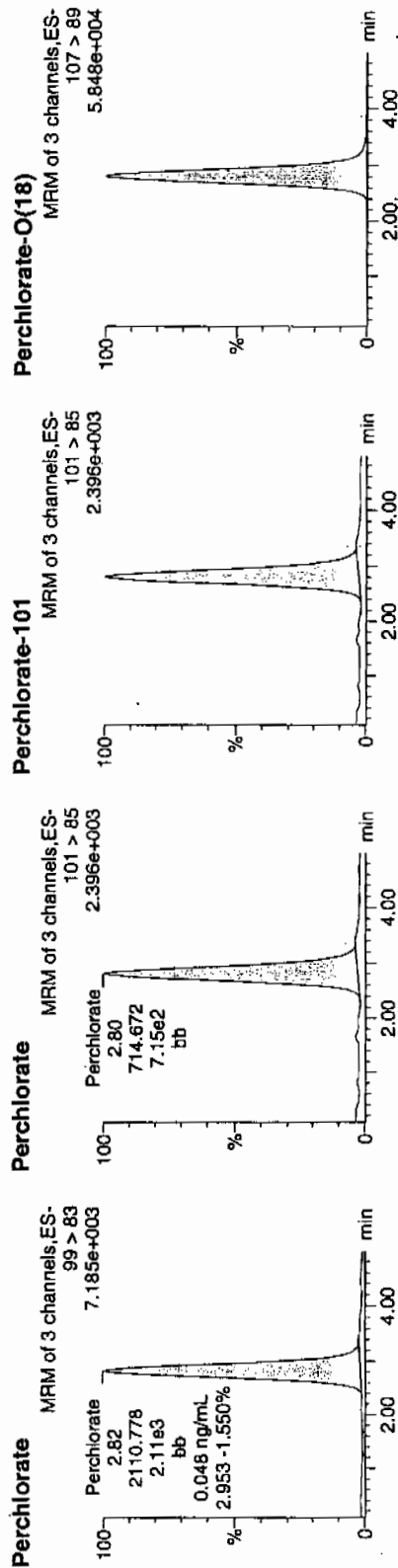
Date: 28-Jan-2010

Time: 17:00:51

ID: WCL100128-07CRI

Vial: 1:2,B

Pass
WCL
01-29-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.82	2110.778	2110.778	bb			0.0477	95.45	-4.55	524.859	2.95
WCL100128-07CRI	Perchlorate-101	101 > 85	2.80	714.672	714.672	bb			0.0472	94.42	-5.58	231.142	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.80	17545.588	17545.588	bb			0.4745	94.90	-5.10	4057.5...	

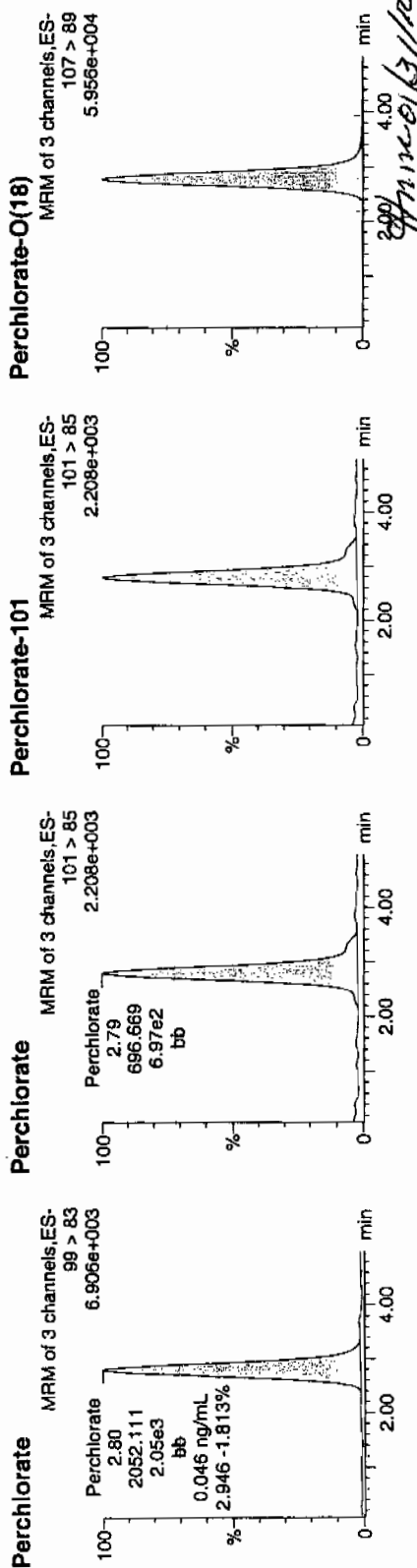
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

*Puss
and
01-29-10*

Name: per0128035a
Date: 28-Jan-2010
Time: 18:45:28
ID: WCL100128-07CRI
Vial: 1:2,B



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.80	2052.111	2052.111	bb			0.0464	92.79	-7.21	505.572	2.95
WCL100128-07CRI	Perchlorate-101	101 > 85	2.79	696.669 ✓	696.669	bb			0.0460	92.04	-7.96	580.824	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.77	18068.287	18068.287	bb			0.4886	97.72	-2.28	11932....	

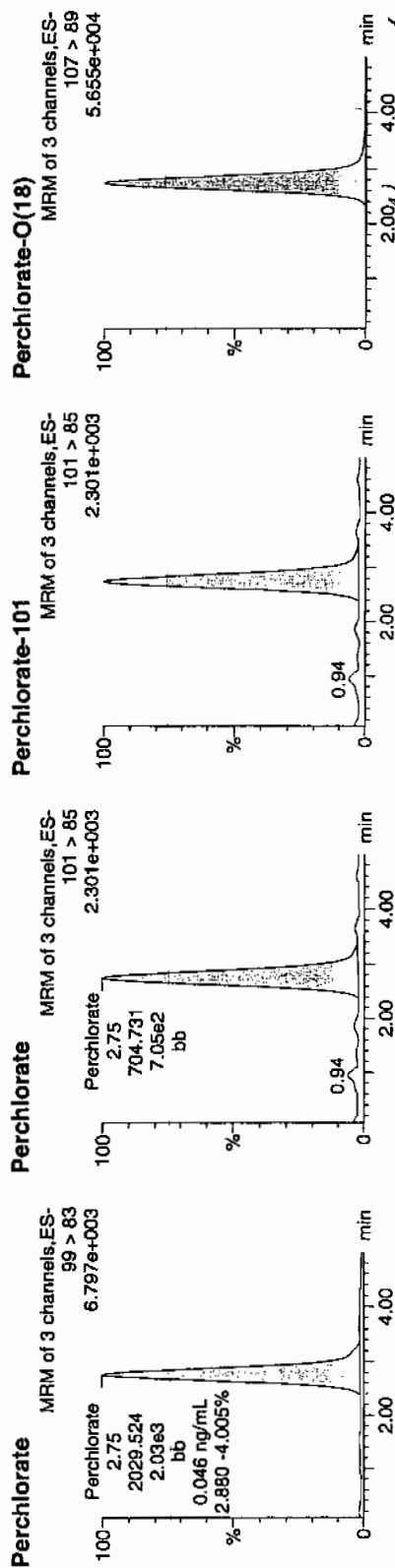
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128047a
Date: 28-Jan-2010
Time: 20:22:02
ID: WCL100128-07CRI
Vial: 1:2,B

Handwritten:
Puro
CWO
01-29-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100128-07CRI	Perchlorate	99 > 83	2.75	2029.524	2029.524	bb			0.0459	91.77	-8.23	81.623	2.88
WCL100128-07CRI	Perchlorate-101	101 > 85	2.75	704.731	704.731	bb			0.0466	93.11	-6.89	53.265	
WCL100128-07CRI	Perchlorate-O(18)	107 > 89	2.74	17275.438	17275.438	bb			0.4672	93.43	-6.57	1213.9...	

Handwritten:
Anne 01/29/10

QUALITY CONTROL

Perchlorate Analysis Data Sheet

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

Client Sample No.

MBLab Name: GEL Laboratories LLCLab Code: GELInstrument: LCMSMSDate Received: 27-JAN-10Method: EPA 6850 ModifiedGEL Job No (SDG): 10-1303Matrix: SOILGEL Sample ID: 1202024339Extraction Batch ID: 945197Date Filtered: 27-JAN-10Extraction Type: Solid PrepInjection Volume (uL): 20Sample Volume/Weight: 2.00 g%Solids: 100Concentrated Extract Volume: 20.0

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	28-JAN-10 16:12	per0128016a
	Perchlorate Isotope Ratio						1	28-JAN-10 16:12	per0128016a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	28-JAN-10 16:12	per0128016a
	Perchlorate-O(18)			4.72	ug/kg		1	28-JAN-10 16:12	per0128016a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

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

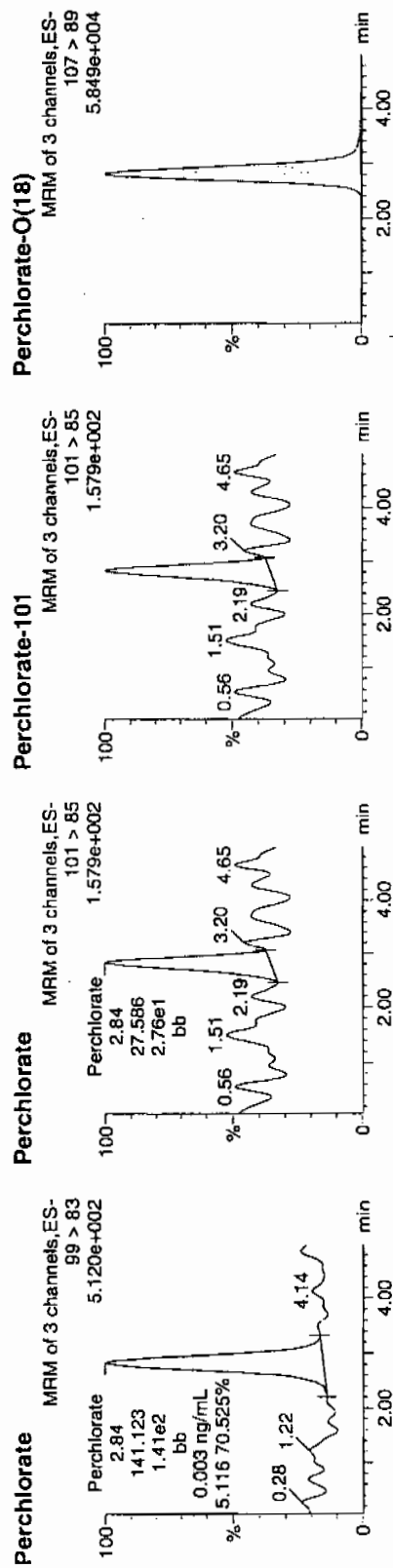
Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128016a
Date: 28-Jan-2010
Time: 16:12:35
ID: 1202024339 ✓
Vial: 1:4,A

01-24-10

1A-1945K3 | 5020 | M3 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202024339	Perchlorate	99 > 83	2.84	141.123	141.123	bb			0.0032			26.555	5.12
1202024339	Perchlorate-101	101 > 85	2.84	27.586	27.586	bb			0.0018			10.786	
1202024339	Perchlorate-O(18)	107 > 89	2.82	17458.219	17458.219	bb			0.4721	94.42	-5.58	4417.4...	

62.24
20.6300

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: EPA 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 945197
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. LCS
 Date Received: 27-JAN-10
 GEL Job No (SDG): 10-1303
 GEL Sample ID: 1202024340
 Date Filtered: 27-JAN-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	1.99	ug/kg	J	1	28-JAN-10 16:20	per0128017a
	Perchlorate Isotope Ratio			3.04			1	28-JAN-10 16:20	per0128017a
14797-73-0	Perchlorate-101	.5	2	1.91	ug/kg	J	1	28-JAN-10 16:20	per0128017a
	Perchlorate-O(18)			5.97	ug/kg		1	28-JAN-10 16:20	per0128017a

[^] 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 %Solid:

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

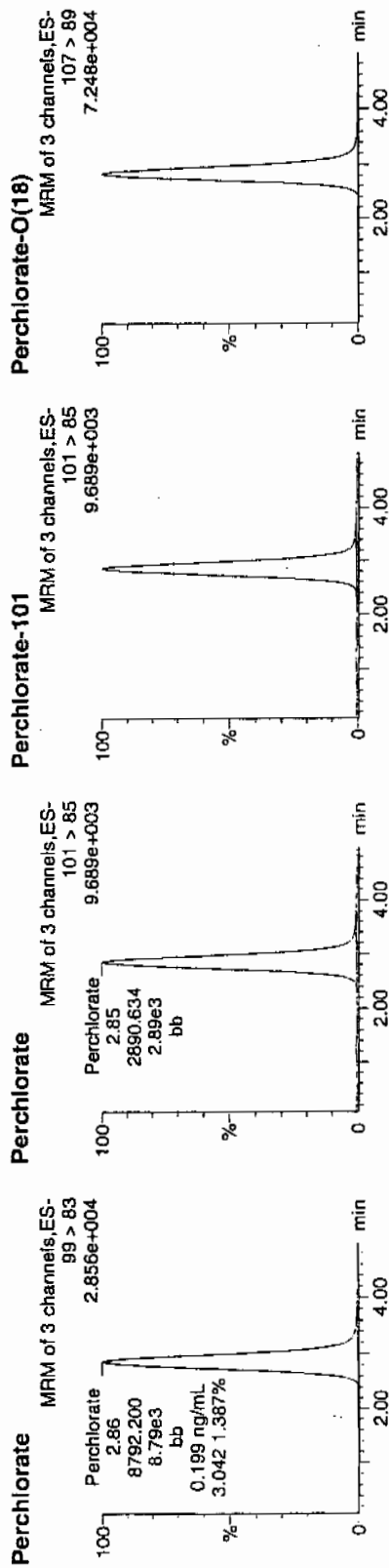
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Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128017a
Date: 28-Jan-2010
Time: 16:20:38
ID: 1202024340
Vial: 1:4,B

0.24-10

1202024340 | 0.24-10 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202024340	Perchlorate	99 > 83	2.86	8792.200	8792.200	bb			0.1988	99.39	-0.61	3359.7...	3.04
1202024340	Perchlorate-101	101 > 85	2.85	2890.634	2890.634	bb			0.1909	95.47	-4.53	1361.7...	
1202024340	Perchlorate-O(18)	107 > 89	2.84	22059.801	22059.801	bb			0.5966	119.31	-19.31	2084.5...	

8792.200
44230.1 = 0.1988
Same/bb/bb

Perchlorate Analysis Data Sheet

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

Lab Name: GEL Laboratories LLCLab Code: GELInstrument: LCMSMSMethod: SW846 6850 ModifiedMatrix: SOILExtraction Batch ID: 945197Extraction Type: Solid PrepSample Volume/Weight: 2.00 gConcentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7194MSDate Received: 20-JAN-10GEL Job No (SDG): 10-1303GEL Sample ID: 1202024341Date Filtered: 27-JAN-10Injection 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	2.77	ug/kg		1	28-JAN-10 17:16	per0128024a
	Perchlorate Isotope Ratio			3.05			1	28-JAN-10 17:16	per0128024a
14797-73-0	Perchlorate-101	.63	2.52	2.65	ug/kg		1	28-JAN-10 17:16	per0128024a
	Perchlorate-O(18)			6.31	ug/kg		1	28-JAN-10 17:16	per0128024a

[^] 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

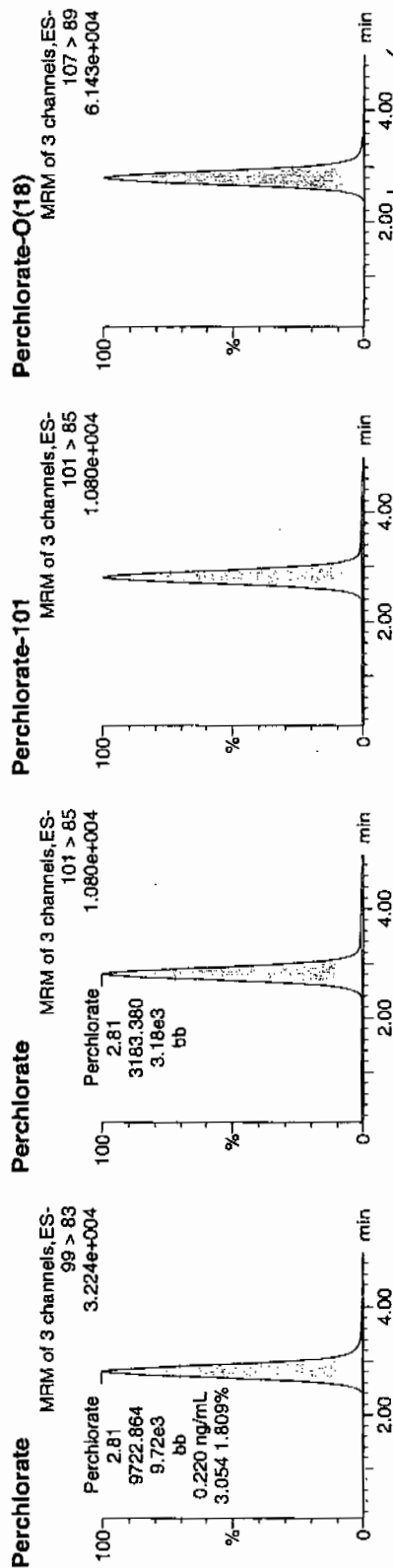
Dataset: C:\MassLynx\Perchlorate.PRO\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128024a
Date: 28-Jan-2010
Time: 17:16:56
ID: 1202024341
Vial: 1;4,F

6633
01-29-10

1202024341 | 50020 | MS | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202024341	Perchlorate	99 > 83	2.81	9722.864	9722.864	bb			0.2198	109.91	9.91	2413.1...	3.05
1202024341	Perchlorate-101	101 > 85	2.81	3183.380	3183.380	bb			0.2103	105.14	5.14	1384.3...	
1202024341	Perchlorate-O(18)	107 > 89	2.80	18518.113	18518.113	bb			0.5008	100.16	0.16	2620.1...	

Perchlorate Analysis Data Sheet

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

Client Sample No.
RE15-10-7194MSD

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Date Received: 20-JAN-10

Instrument: LCMSMS

GEL Job No (SDG): 10-1303

Method: SW846 6850 Modified

GEL Sample ID: 1202024342

Matrix: SOIL

Date Filtered: 27-JAN-10

Extraction Batch ID: 945197

Injection Volume (uL): 20

Extraction Type: Solid Prep

%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	.63	2.52	2.94	ug/kg		1	28-JAN-10 17:24	per0128025a
	Perchlorate Isotope Ratio			3			1	28-JAN-10 17:24	per0128025a
14797-73-0	Perchlorate-101	.63	2.52	2.86	ug/kg		1	28-JAN-10 17:24	per0128025a
	Perchlorate-O(18)			6.95	ug/kg		1	28-JAN-10 17:24	per0128025a

[^] 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\per012810a.qld

Last Altered: Friday, January 29, 2010 9:45:01 AM Eastern Standard Time
Printed: Friday, January 29, 2010 9:54:33 AM Eastern Standard Time

Name: per0128025a

Date: 28-Jan-2010

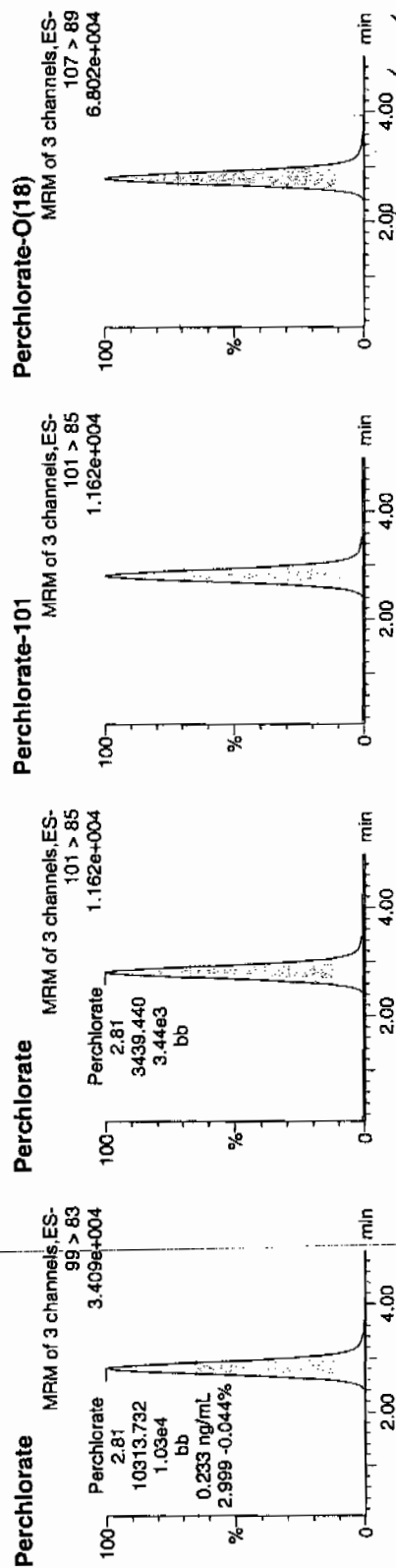
Time: 17:24:58

ID: 1202024342

Vial: 1:5,A

01-29-10

1202024342 | 945198 | 5020 | MSO | 1 | 1



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
1202024342	Perchlorate	99 > 83	2.81	10313.732	10313.732	bb			0.2332	116.59	16.59	2961.3...	3.00
1202024342	Perchlorate-101	101 > 85	2.81	3439.440	3439.440	bb			0.2272	113.60	13.60	2811.1...	
1202024342	Perchlorate-O(18)	107 > 89	2.80	20377.816	20377.816	bb			0.5511	110.21	10.21	6115.7...	

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: 945197 Verified by: Lab SOP: GL-OA-E-067 REV# 6
 Analyst: Jareth Shirley Instrument: MicroMass Quatro Ultima
 Method: SW846 6850 Modified

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202024339 MB	27-JAN-2010 16:47:32	2	20	10
1202024340 LCS	27-JAN-2010 16:47:32	2	20	10
245098001	27-JAN-2010 16:47:32	2	20	10
245136001	27-JAN-2010 16:47:32	2	20	10
1202024341 MS (245136001)	27-JAN-2010 16:47:32	2	20	10
1202024342 MSD (245136001)	27-JAN-2010 16:47:32	2	20	10
245136002	27-JAN-2010 16:47:32	2	20	10
245136003	27-JAN-2010 16:47:32	2	20	10
245136004	27-JAN-2010 16:47:32	2	20	10
245136005	27-JAN-2010 16:47:32	2	20	10
245136006	27-JAN-2010 16:47:32	2	20	10
245136007	27-JAN-2010 16:47:32	2	20	10
245136008	27-JAN-2010 16:47:32	2	20	10
245136009	27-JAN-2010 16:47:32	2	20	10
245136010	27-JAN-2010 16:47:32	2	20	10
245136011	27-JAN-2010 16:47:32	2	20	10
245136012	27-JAN-2010 16:47:32	2	20	10
245136013	27-JAN-2010 16:47:32	2	20	10
245141001	27-JAN-2010 16:47:32	2	20	10
245141002	27-JAN-2010 16:47:32	2	20	10
245141003	27-JAN-2010 16:47:32	2	20	10
245141004	27-JAN-2010 16:47:32	2	20	10
1202024343 ICS	27-JAN-2010 16:47:32	2	20	10

Comments:

Type	Sample Id	Description	Serial Number	Spike Amt	Units
ICS	1202024343	10 ug/L ICS/CCV Second Source	UCL091230-01.2	.4	mL
LCS	1202024340	10 ug/L LCS/CCV Second Source	UCL091230-01.2	.4	mL
MS	1202024341	10 ug/L MS/CCV Second Source	UCL091230-01.2	.4	mL
MSD	1202024342	10 ug/L MSD/CCV Second Source	UCL091230-01.2	.4	mL

Desalting cartridges used: 090414-1-Ba & 091130-1-H

GEL ORGANIC RUN LOG

INSTRUMENT ID: LOMSMS#2

Date: 01/28/10

Extr. Injection Volume: 20uL

Sequence Number: per012810a

Initial Calibration Date: 01/28/10

Method: EPA 6850-Modified

Int. Std.: UCL100122-01

Mobile Phase Lot#: 1254342, 1246195

Standard-Samp Reagent Lot#: 1233976

Reviewed BY: *AW*

Date: *2/3/10*

SOP: GL-OA-E-067 Rev.6

Alt Check Std. ID: WCL100128-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0128001a	IPB001	CWW	1/28/2010 14:11			1		USE	B
per0128002a	IPB001	CWW	1/28/2010 14:19			1		USE	B
per0128003a	WCLICAL-01	CWW	1/28/2010 14:27			1		USE	I
per0128004a	WCLICAL-02	CWW	1/28/2010 14:36			1		USE	I
per0128005a	WCLICAL-03	CWW	1/28/2010 14:44			1		USE	I
per0128006a	WCLICAL-04	CWW	1/28/2010 14:52			1		USE	I
per0128007a	WCLICAL-05	CWW	1/28/2010 15:00			1		USE	I
per0128008a	IPB002	CWW	1/28/2010 15:08			1		USE	B
per0128009a	WCLICV	CWW	1/28/2010 15:16			1		USE	C
per0128010a	IPB003	CWW	1/28/2010 15:24			1		USE	B
per0128011a	WCLCRI	CWW	1/28/2010 15:32			1		USE	C
per0128012a	245237001	CWW	1/28/2010 15:40	945223	10-1346	2	LANL	USE	S
per0128013a	IPB004	CWW	1/28/2010 15:48			1		USE	B
per0128014a	245237002	CWW	1/28/2010 15:56	945223	10-1346	2	LANL	USE	S
per0128015a	IPB005	CWW	1/28/2010 16:04			1		USE	B
per0128016a	1202024339	CWW	1/28/2010 16:12	945198	VARIOUS	1	LANL	USE	S
per0128017a	1202024340	CWW	1/28/2010 16:20	945198	VARIOUS	1	LANL	USE	S
per0128018a	1202024343	CWW	1/28/2010 16:28	945198	VARIOUS	1	LANL	USE	S
per0128019a	245098001	CWW	1/28/2010 16:36	945198	10-1336	1	LANL	USE	S
per0128020a	WCLCCV	CWW	1/28/2010 16:44			1		USE	C
per0128021a	IPB006	CWW	1/28/2010 16:52			1		USE	B
per0128022a	WCLCRI	CWW	1/28/2010 17:00			1		USE	C
per0128023a	245136001	CWW	1/28/2010 17:08	945198	10-1303	1	LANL	USE	S
per0128024a	1202024341	CWW	1/28/2010 17:16	945198	10-1303	1	LANL	USE	S
per0128025a	1202024342	CWW	1/28/2010 17:24	945198	10-1303	1	LANL	USE	S
per0128026a	245136002	CWW	1/28/2010 17:33	945198	10-1303	1	LANL	USE	S
per0128027a	245136003	CWW	1/28/2010 17:41	945198	10-1303	1	LANL	USE	S
per0128028a	245136004	CWW	1/28/2010 17:49	945198	10-1303	1	LANL	USE	S
per0128029a	245136005	CWW	1/28/2010 17:57	945198	10-1303	1	LANL	USE	S

per0128030a	245136006	CWW	1/28/2010 18:05	945198	10-1303	1	LANL	USE	S
per0128031a	245136007	CWW	1/28/2010 18:13	945198	10-1303	1	LANL	USE	S
per0128032a	245136008	CWW	1/28/2010 18:21	945198	10-1303	1	LANL	USE	S
per0128033a	WCLCCV	CWW	1/28/2010 18:29			1		USE	C
per0128034a	IPB007	CWW	1/28/2010 18:37			1		USE	B
per0128035a	WCLCRI	CWW	1/28/2010 18:45			1		USE	C
per0128036a	245136009	CWW	1/28/2010 18:53	945198	10-1303	1	LANL	USE	S
per0128037a	245136010	CWW	1/28/2010 19:01	945198	10-1303	1	LANL	USE	S
per0128038a	245136011	CWW	1/28/2010 19:09	945198	10-1303	1	LANL	USE	S
per0128039a	245136012	CWW	1/28/2010 19:17	945198	10-1303	1	LANL	USE	S
per0128040a	245136013	CWW	1/28/2010 19:25	945198	10-1303	1	LANL	USE	S
per0128041a	245141001	CWW	1/28/2010 19:33	945198	10-1335-1	1	LANL	USE	S
per0128042a	245141002	CWW	1/28/2010 19:41	945198	10-1335-1	1	LANL	USE	S
per0128043a	245141003	CWW	1/28/2010 19:49	945198	10-1335-1	1	LANL	USE	S
per0128044a	245141004	CWW	1/28/2010 19:57	945198	10-1335-1	1	LANL	USE	S
per0128045a	WCLCCV	CWW	1/28/2010 20:05			1		USE	C
per0128046a	IPB008	CWW	1/28/2010 20:14			1		USE	B
per0128047a	WCLCRI	CWW	1/28/2010 20:22			1		USE	C
per0128048a	1202024334	CWW	1/28/2010 20:30	945194	VARIOUS	1	LANL	USE	S
per0128049a	1202024335	CWW	1/28/2010 20:38	945194	VARIOUS	1	LANL	USE	S
per0128050a	1202024338	CWW	1/28/2010 20:46	945194	VARIOUS	1	LANL	USE	S
per0128051a	245100001	CWW	1/28/2010 20:54	945194	10-1331	1	LANL	USE	S
per0128052a	1202024336	CWW	1/28/2010 21:02	945194	10-1331	1	LANL	USE	S
per0128053a	1202024337	CWW	1/28/2010 21:10	945194	10-1331	1	LANL	USE	S
per0128054a	245100002	CWW	1/28/2010 21:18	945194	10-1331	1	LANL	USE	S
per0128055a	245100003	CWW	1/28/2010 21:26	945194	10-1331	1	LANL	USE	S
per0128056a	WCLCCV	CWW	1/28/2010 21:34			1		USE	C
per0128057a	IPB009	CWW	1/28/2010 21:42			1		USE	B
per0128058a	WCLCRI	CWW	1/28/2010 21:50			1		USE	C
per0128059a	245100004	CWW	1/28/2010 21:58	945194	10-1331	1	LANL	USE	S
per0128060a	245100005	CWW	1/28/2010 22:07	945194	10-1331	1	LANL	USE	S
per0128061a	245100006	CWW	1/28/2010 22:15	945194	10-1331	1	LANL	USE	S
per0128062a	245100007	CWW	1/28/2010 22:24	945194	10-1331	1	LANL	USE	S
per0128063a	245100008	CWW	1/28/2010 22:32	945194	10-1331	1	LANL	USE	S
per0128064a	245111001	CWW	1/28/2010 22:40	945194	10-1295-1	1	LANL	USE	S
per0128065a	245111002	CWW	1/28/2010 22:48	945194	10-1295-1	1	LANL	USE	S
per0128066a	245111003	CWW	1/28/2010 22:56	945194	10-1295-1	1	LANL	USE	S

per0128067a	WCLCCV	CWW	1/28/2010 23:04	945194	10-1295-1	1	LANL	USE	C
per0128068a	IPB010	CWW	1/28/2010 23:13	945194	10-1295-1	1	LANL	USE	B
per0128069a	WCLCRI	CWW	1/28/2010 23:21	945194	10-1295-1	1	LANL	USE	C
per0128070a	245111004	CWW	1/28/2010 23:29	945194	10-1295-1	1	LANL	USE	S
per0128071a	245111005	CWW	1/28/2010 23:37	945194	10-1295-1	1	LANL	USE	S
per0128072a	245111006	CWW	1/28/2010 23:45	945194	10-1295-1	1	LANL	USE	S
per0128073a	245111007	CWW	1/28/2010 23:53	945194	10-1295-1	1	LANL	USE	S
per0128074a	245111008	CWW	1/29/2010 0:01	945194	10-1295-1	1	LANL	USE	S
per0128075a	245111009	CWW	1/29/2010 0:09	945194	10-1295-1	1	LANL	USE	S
per0128076a	245111010	CWW	1/29/2010 0:17	945194	10-1295-1	1	LANL	USE	S
per0128077a	245111011	CWW	1/29/2010 0:25	945194	10-1295-1	1	LANL	USE	S
per0128078a	WCLCCV	CWW	1/29/2010 0:33			1		USE	C
per0128079a	IPB011	CWW	1/29/2010 0:41			1		USE	B
per0128080a	WCLCRI	CWW	1/29/2010 0:49			1		USE	C

Isotope Ratio Criteria

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

2.31-3.85

Tune Criteria

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

LC/MS/MS PERCHLORATE ANALYSIS

**Perchlorate by LC/MSMS
Los Alamos National Laboratory (LANL)
SDG 10-1303-1**

Method/Analysis Information

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

Analytical Method: SW846 6850 Modified

Prep Method: SW846 6850 Modified

Analytical Batch Number: 945223

Prep Batch Number: 945221

Sample Analysis

Sample ID	Client ID
245137001	RE15-10-7228
245137002	RE15-10-7224
245137003	RE15-10-7227
1202024389	Interference Check Sample (ICS)
1202024385	Method Blank (MB)
1202024386	Laboratory Control Sample (LCS)
1202024387	245089002(RE46-10-11310) Matrix Spike (MS)
1202024388	245089002(RE46-10-11310) Matrix Spike Duplicate (MSD)

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

Preparation/Analytical Method Verification

SOP Reference

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

10-1303-1-PERLCMS

Page 1 of 4

Calibration Information

Initial Calibration

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

CCV Requirements

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

CCB Requirements

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

CCV Requirements

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

Low Level Standard (CRI) Requirements

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

Quality Control (QC) Information

Method Blank (MB) Statement

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

Interference Check Sample (ICS)

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

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Client sample 245089002 (RE46-10-11310) from SDG 10-1293 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Retention Time Standard Area Acceptance

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

Retention Time

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

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

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

Miscellaneous Information

Data Exception (DER) Documentation

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

Manual Integrations

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

Method Comments

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

Additional Comments

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

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

Perchlorate Isotope Ratio

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

System Configuration

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

Chromatographic Columns

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

Dionex: IonPac AG-16 2 x 50 mm.

Certification Statement

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

Review Validation:

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

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

Reviewer: Herbert M. Moore Date: 02/05/10

SAMPLE DATA SUMMARY

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: WATER

Extraction Batch ID: 945221

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

RE15-10-7228

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303-1

GEL Sample ID: 245137001

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:29	per0127056a
	Perchlorate Isotope Ratio						1	28-JAN-10 02:29	per0127056a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:29	per0127056a
	Perchlorate-O(18)			0.487	ug/L		1	28-JAN-10 02:29	per0127056a

[^] 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

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Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 945221
 Extraction Type: Filter/DAI
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0
 Client Sample No. RE15-10-7224
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303-1
 GEL Sample ID: 245137002
 Date Filtered: 27-JAN-10
 Injection Volume (uL): 20
 %Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:37	per0127057a
	Perchlorate Isotope Ratio						1	28-JAN-10 02:37	per0127057a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:37	per0127057a
	Perchlorate-O(18)			0.473	ug/L		1	28-JAN-10 02:37	per0127057a

[^] 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: WATER

Extraction Batch ID: 245221

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

RE15-10-7227

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303-1

GEL Sample ID: 245137003

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:45	per0127058a
	Perchlorate Isotope Ratio						1	28-JAN-10 02:45	per0127058a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:45	per0127058a
	Perchlorate-O(18)			0.485	ug/L		1	28-JAN-10 02:45	per0127058a

[^] 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 LaboratoriesLab Code: GEL GEL Job No. (SDG): 10-1303-1Extract Batch Code: 945221 Date Filtered: 27-JAN-10Matrix: WATER Sample ID: 1202024386

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.195	ug/L	97.6		85 - 115
Perchlorate Isotope Ratio		3.18				-
Perchlorate-101	0.200	.185	ug/L	92.4		85 - 115
Perchlorate-O(18)		.488	ug/L			-

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

Perchlorate Interference Check Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-1303-1

Extract Batch Code: 945221

Date Filtered: 27-JAN-10

Matrix: WATER

Sample ID: 1202024389

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.194	ug/L	97		70 - 130
Perchlorate Isotope Ratio		3.18				
Perchlorate-101	0.200	.183	ug/L	91.6		70 - 130
Perchlorate-O(18)		.481	ug/L			

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

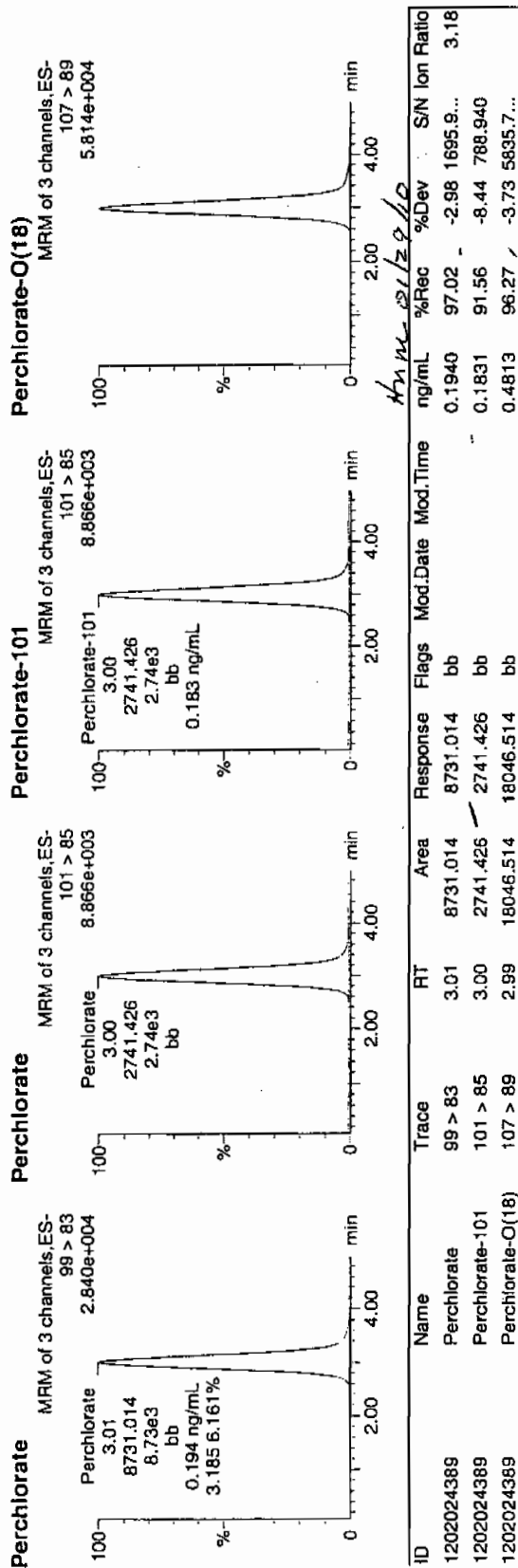
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127040a
Date: 28-Jan-2010
Time: 00:20:44
ID: 1202024389
Vial: 2:1,C

WJ
01-28-10
LAW 1945223 | 220 | 703 | 11



Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-1303-1

Extract Batch Code: 945221

Date Extracted: 27-JAN-10

GEL MS/PS ID: 1202024387

Client ID: RE46-10-11310

GEL MSD/PSD ID: 1202024388

QC Type: MS

Compound [^]	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	0.200	0.00233	ug/L	0.189	93.1		.197	97.1		4.16		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.04			2.96			0			-
Perchlorate-101	0.200	0.00298	ug/L	0.187	91.9		.2	98.3		6.66		30	75 - 125
Perchlorate-O(18)	0	0.480	ug/L	0.475			.481			1.31			-

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

Comments:

Form 4

Perchlorate Initial Calibration Blank

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1303-I

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	27-JAN-10	per0127001a	IPB001
Perchlorate-101	0.00	0	NA	27-JAN-10	per0127001a	IPB001
Perchlorate	0.00	0	NA	27-JAN-10	per0127002a	IPB001
Perchlorate-101	0.00	0	NA	27-JAN-10	per0127002a	IPB001

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Acquired: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time

Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per012710a.mdb 28 Jan 2010 10:22:42

Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per012710a.cdb 28 Jan 2010 12:32:46

Sample Name: per0127001a

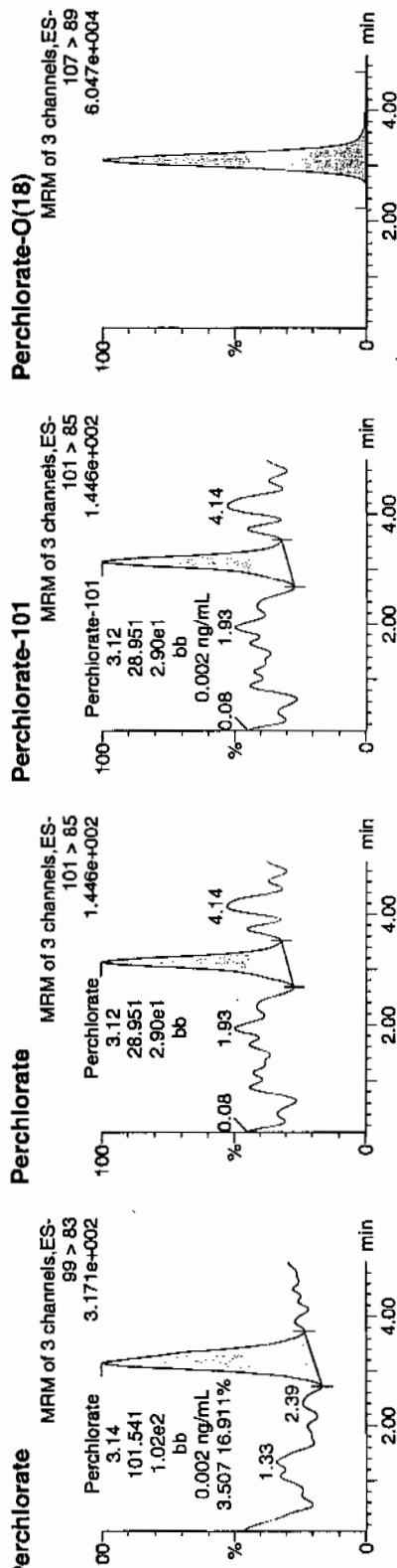
Sample Date: 27-Jan-2010

Sample Time: 19:06:51

Sample ID: IPB001

Sample Label: 1:1,A

01-28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83	3.14	101.541	101.541	bb			0.0023	43.847	3.51		
Perchlorate-101	101 > 85	3.12	28.951	28.951	bb			0.0019	16.582			
Perchlorate-O(18)	107 > 89	3.10	18671.002	18671.002	bb			0.4980	99.60	-0.40	1853.0...	

Quantify Sample Report MassLynx 4.0 SP4

the GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qtd

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Sample Name: per0127002a

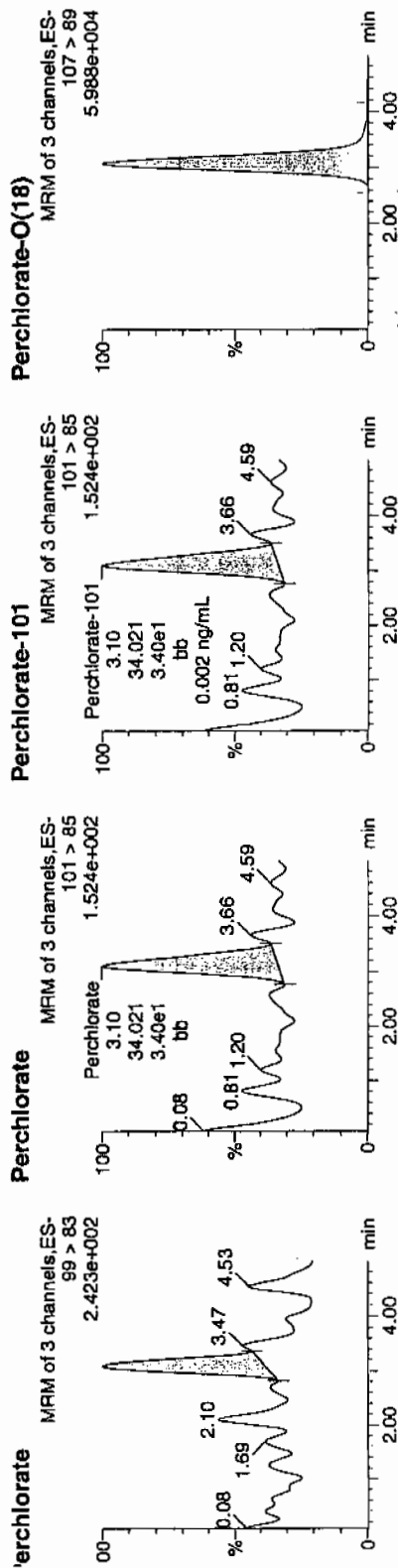
Sample Date: 27-Jan-2010

Sample Time: 19:15:04

Sample ID: IPB001

Sample Label: 1:1,A

0.28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83	3.10	41.383	41.383	bb			0.0009			8.994	1.22
Perchlorate-101	101 > 85	3.10	34.021	34.021	bb			0.0023			16.085	
Perchlorate-O(18)	107 > 89	3.09	18576.500	18576.500	bb			0.4955	99.10	-0.90	3756.9	

4/11/10 21/29/10
0.001
2.3552

Perchlorate Continuing Calibration Blank

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GEL Job No.(SDG): 10-1303-1Lab Name: General Engineering LaboratoriesLab Code: GELReporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	27-JAN-10	per0127008a	IPB002
Perchlorate-101	0.00	0	NA	27-JAN-10	per0127008a	IPB002
Perchlorate	0.00	0	NA	27-JAN-10	per0127010a	IPB003
Perchlorate-101	0.00	0	NA	27-JAN-10	per0127010a	IPB003
Perchlorate	0.00	0	NA	27-JAN-10	per0127023a	IPB004
Perchlorate-101	0.00	0	NA	27-JAN-10	per0127023a	IPB004
Perchlorate	0.00	0	NA	27-JAN-10	per0127036a	IPB005
Perchlorate-101	0.00	0	NA	27-JAN-10	per0127036a	IPB005
Perchlorate	0.00	0	NA	28-JAN-10	per0127049a	IPB006
Perchlorate-101	0.00	0	NA	28-JAN-10	per0127049a	IPB006
Perchlorate	0.00	0	NA	28-JAN-10	per0127062a	IPB007
Perchlorate-101	0.00	0	NA	28-JAN-10	per0127062a	IPB007

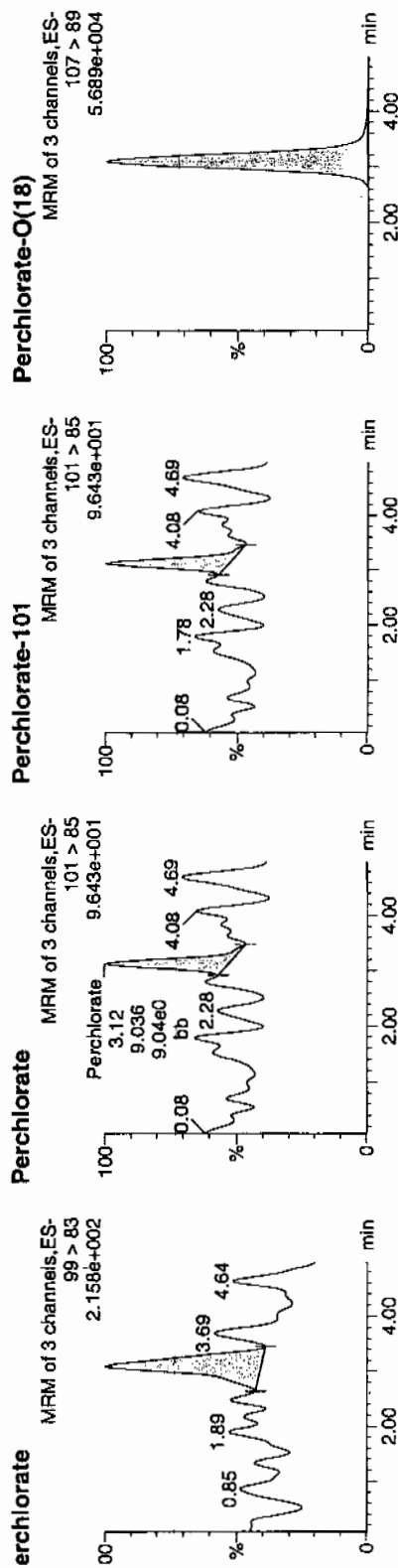
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Sample Name: per0127008a
Date: 27-Jan-2010
Time: 20:03:21
ID: IPB002
Label: 1:1,A

6m
01-28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83	3.09	42.079	42.079	bb			0.0009			12.512	4.66
Perchlorate-101	101 > 85	3.12	9.036	9.036	bb			0.0006			12.364	
Perchlorate-O(18)	107 > 89	3.10	17949.510	17949.510	bb			0.4788	95.75	-4.25	5202.8...	

Handwritten: 4.66, 12.512, 12.364, 5202.8...

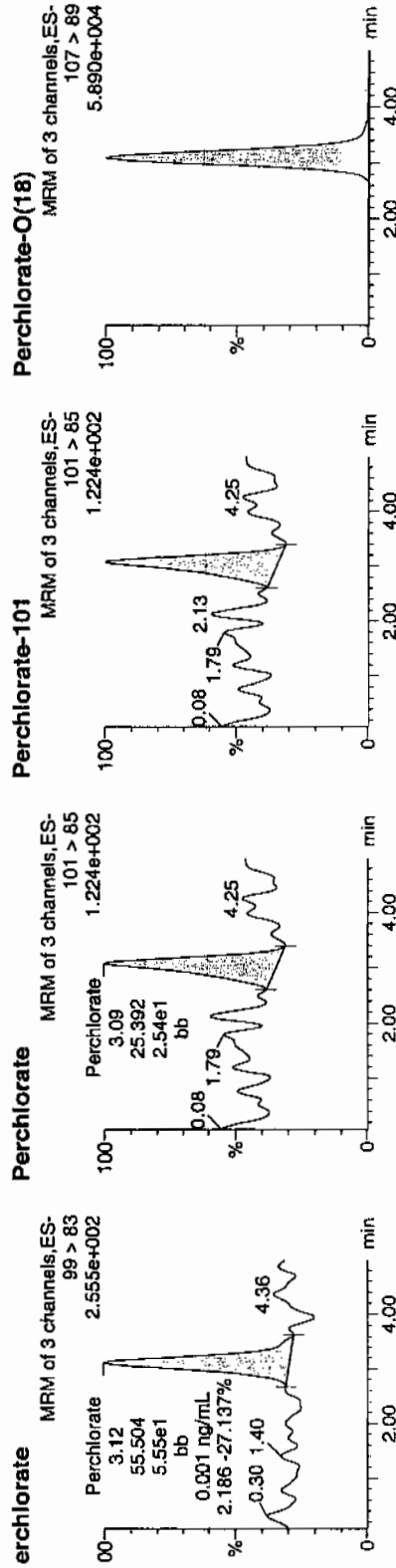
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Sample Name: per0127010a
Date: 27-Jan-2010
Time: 20:19:25
ID: IPB003
Label: 1:1,A

01-28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83	3.12	55.504	55.504	bb			0.0012	10.142	2.19		
Perchlorate-101	101 > 85	3.09	25.392	25.392	bb			0.0017	17.762			
Perchlorate-O(18)	107 > 89	3.10	18617.938	18617.938	bb			0.4966	99.32	-0.68	4293.7	

0.001 ng/mL
2.186-27.137%
0.30 1.40

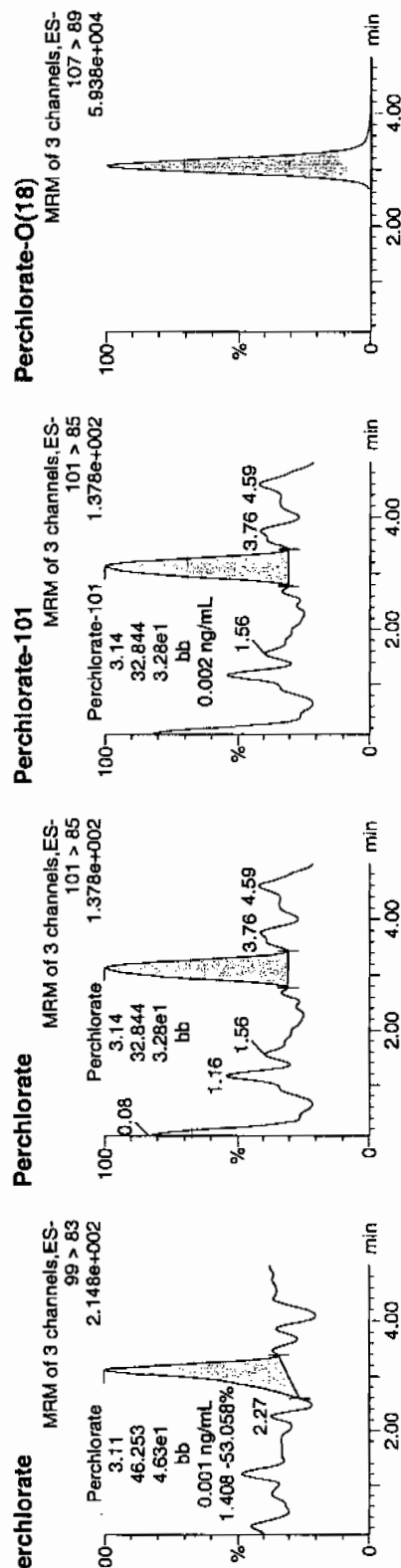
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Sample Name: per0127023a
Date: 27-Jan-2010
Time: 22:03:52
ID: IPB004
Label: 1:1,A

01-23-10



Handwritten: 01/29/10

Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	99 > 83	3.11	46.253	46.253	bb			0.0010			37.540	1.41
Perchlorate-101	101 > 85	3.14	32.844	32.844	bb			0.0022			16.463	
Perchlorate-O(18)	107 > 89	3.06	18551.006	18551.006	bb			0.4948	98.96	-1.04	7426.3...	

Handwritten: 01/29/10

Quantify Sample Report MassLynx 4.0 SP4

he GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

ast Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
rinted: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

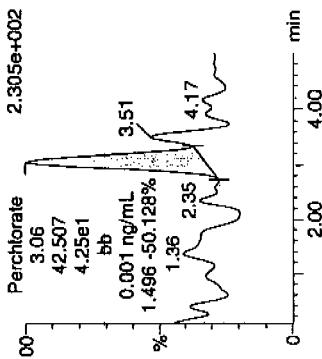
lame: per0127036a
ate: 27-Jan-2010
ime: 23:48:26
: IPB005
ial: 1:1,A

01-28-10

Perchlorate

MRM of 3 channels, ES-

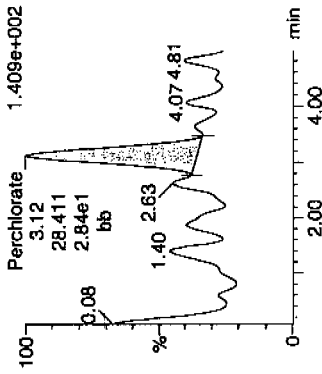
99 > 83



Perchlorate

MRM of 3 channels, ES-

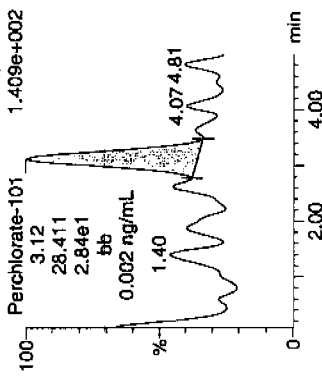
101 > 85



Perchlorate-101

MRM of 3 channels, ES-

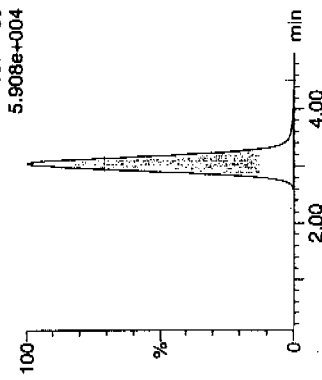
101 > 85



Perchlorate-O(18)

MRM of 3 channels, ES-

107 > 89



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	IonRatio
Perchlorate	99 > 83	3.06	42.507	42.507	bb			0.0009			16.200	1.50
Perchlorate-101	101 > 85	3.12	28.411	28.411	bb			0.0019			23.260	
Perchlorate-O(18)	107 > 89	3.04	18369.904	18369.904	bb			0.4900	97.99	-2.01	3034.0...	

0.004
23.260

Hum-el-10

Quantify Sample Report MassLynx 4.0 SP4

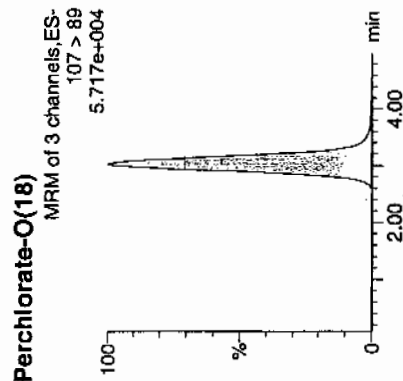
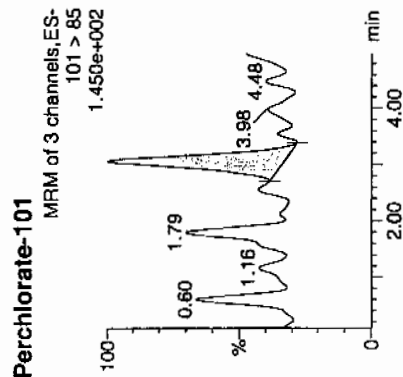
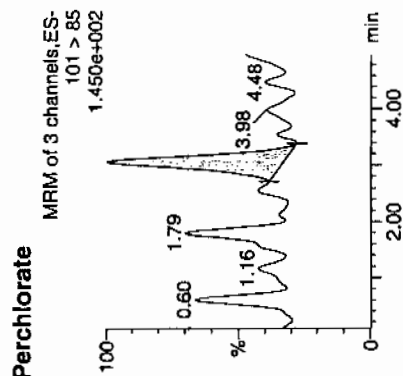
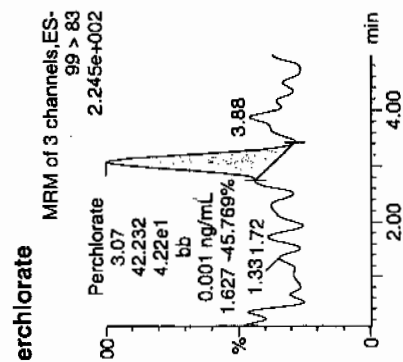
he GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Sample Name: per0127049a
Date: 28-Jan-2010
Time: 01:33:12
ID: IPB006
Label: 1:1,A

CW3
01-28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB006	Perchlorate	3.07	42.232	42.232	bb			0.0009			17.575	1.63
IPB006	Perchlorate-101	3.05	25.958	25.958	bb			0.0017			7.522	
IPB006	Perchlorate-O(18)	3.02	17816.770	17816.770	bb			0.4752	95.04	-4.96	3449.3...	

Time 01/29/10

6694
20.050

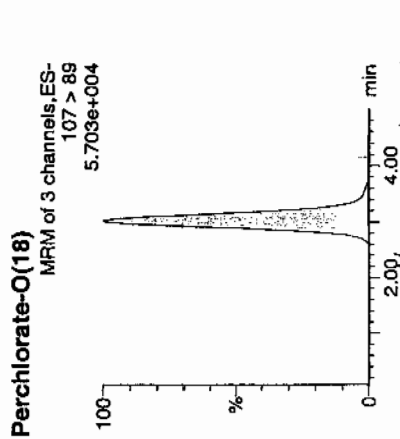
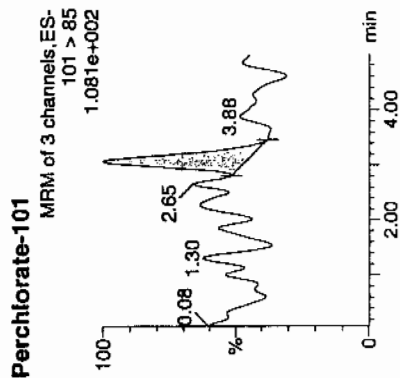
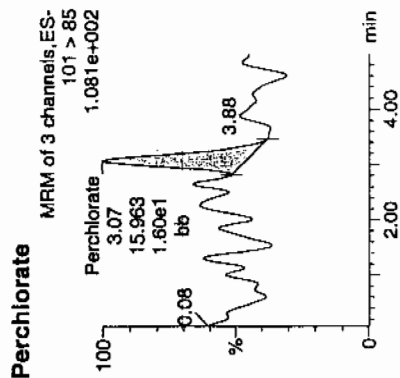
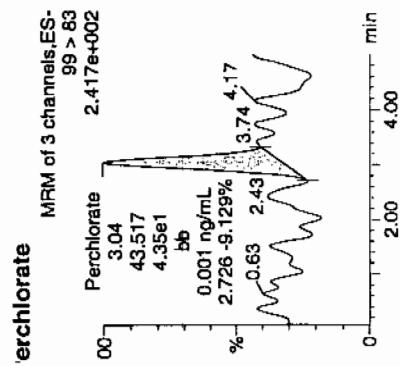
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Sample Name: per0127062a
Date: 28-Jan-2010
Time: 03:18:07
Lab: IPB007
File: 1:1,A

01-28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	IS/N	Ratio
Perchlorate	99 > 83	3.04	43.517	43.517	bb			0.0010	15.178		15.178	2.73
Perchlorate-101	101 > 85	3.07	15.963	15.963	bb			0.0011	12.192		12.192	
Perchlorate-O(18)	107 > 89	3.02	17717.197	17717.197	bb			0.4726	94.51	-5.49	5679.0...	

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

QUARTO ULTIMA: nairb_01_08_08.cal

Calibration Report - MS1 Static

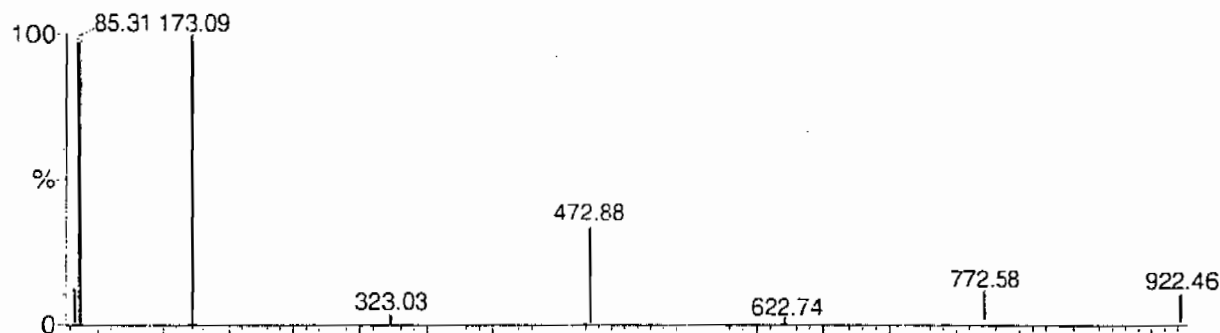
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

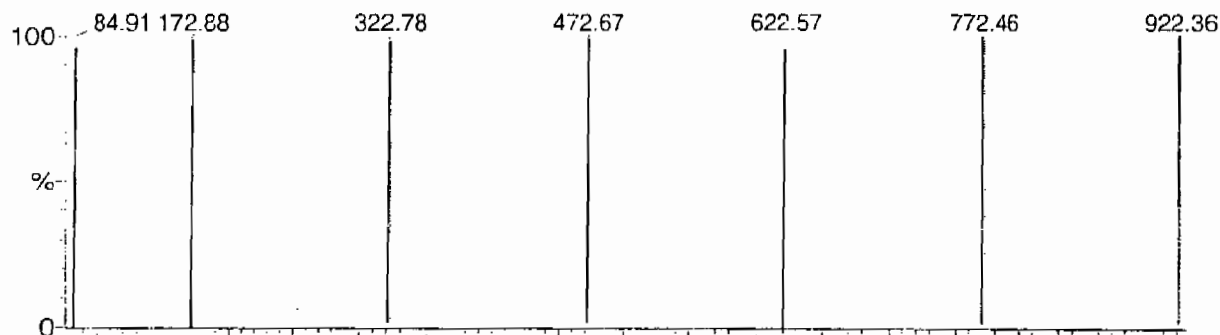
DATA HIGHLIGHTED BY CURV 01-07-03

Data file: STATMS1 - Uncalibrated

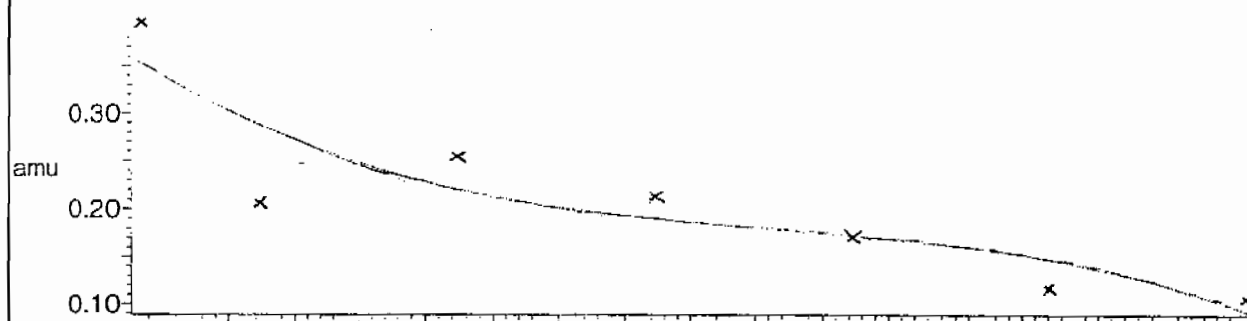
7 matches of 7 tested references



Reference file: Nairb

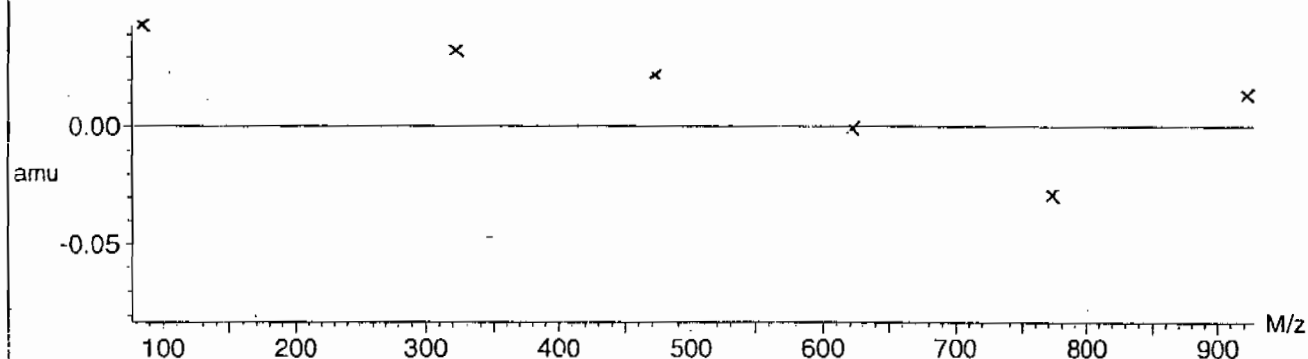


Mass difference (Raw - Ref mass)



Residuals

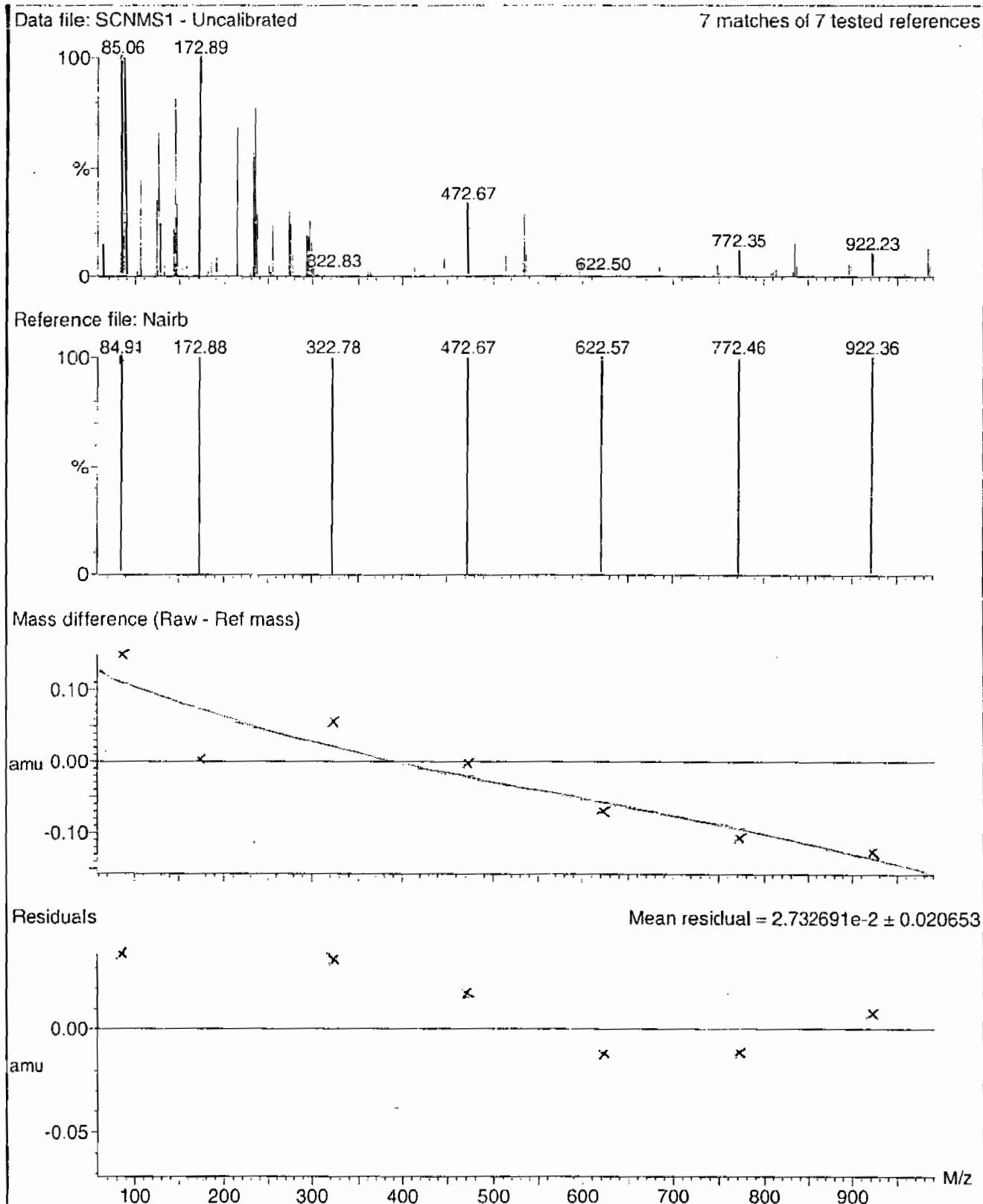
Mean residual = $3.212012 \times 10^{-2} \pm 0.024108$



Calibration Report - MS1 Scanning

Page 1 of 1

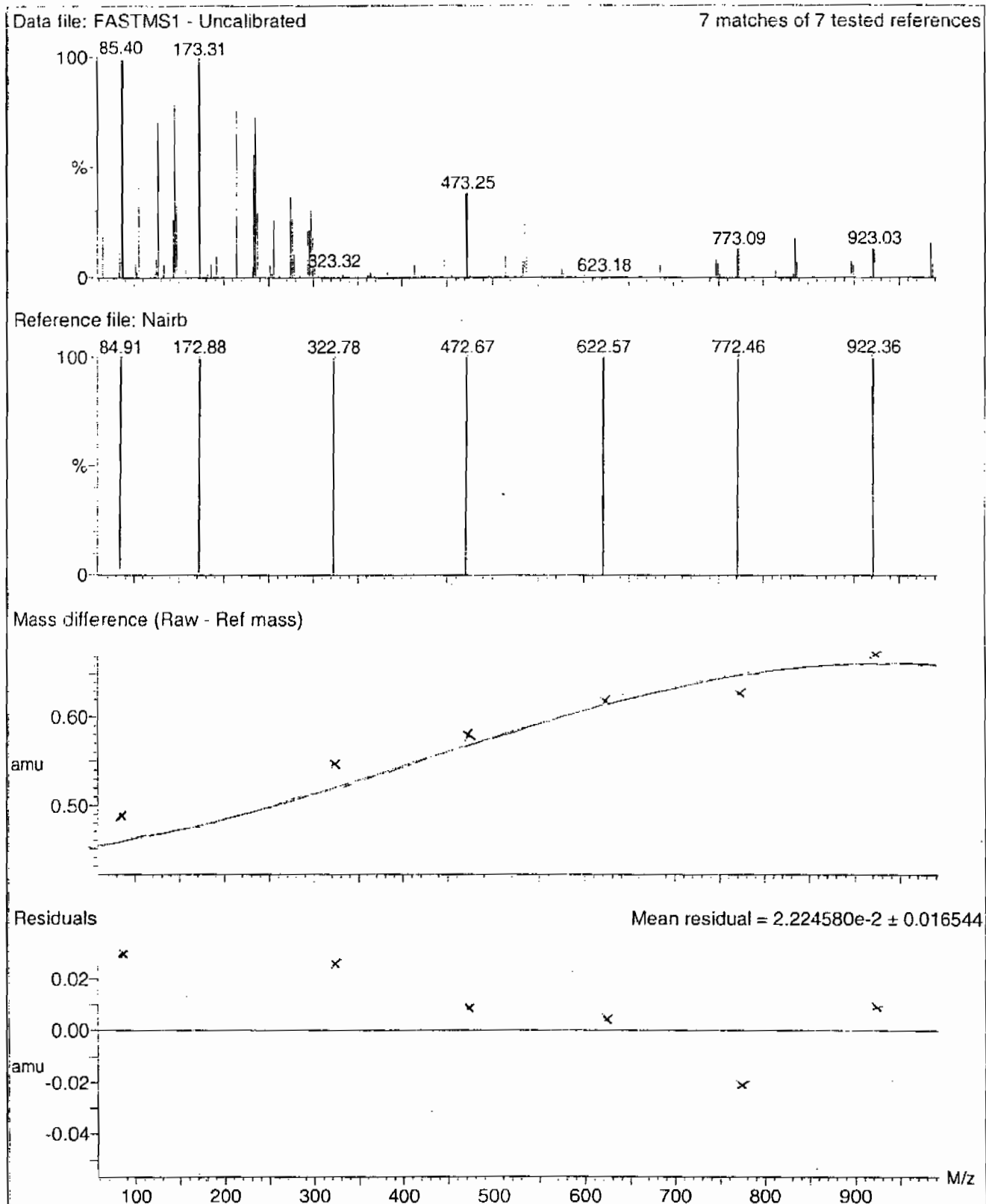
Printed: Tue Jan 08 12:20:09 2008



Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

Printed: Tue Jan 08 12:21:04 2008



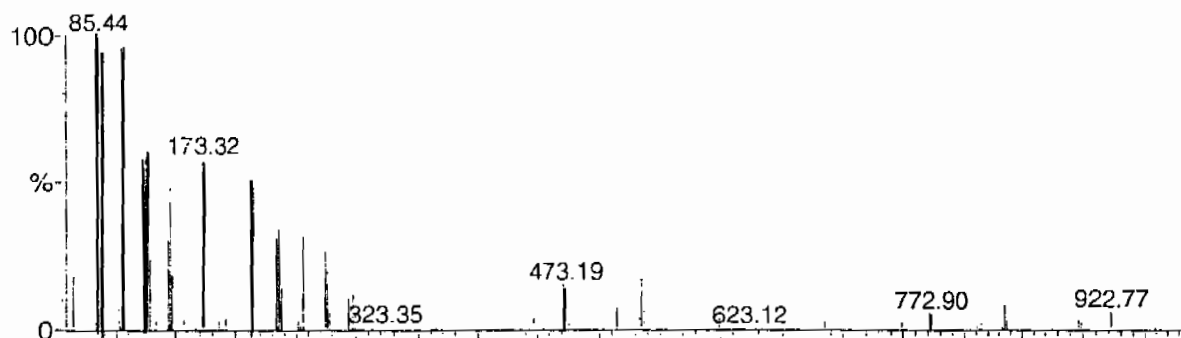
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

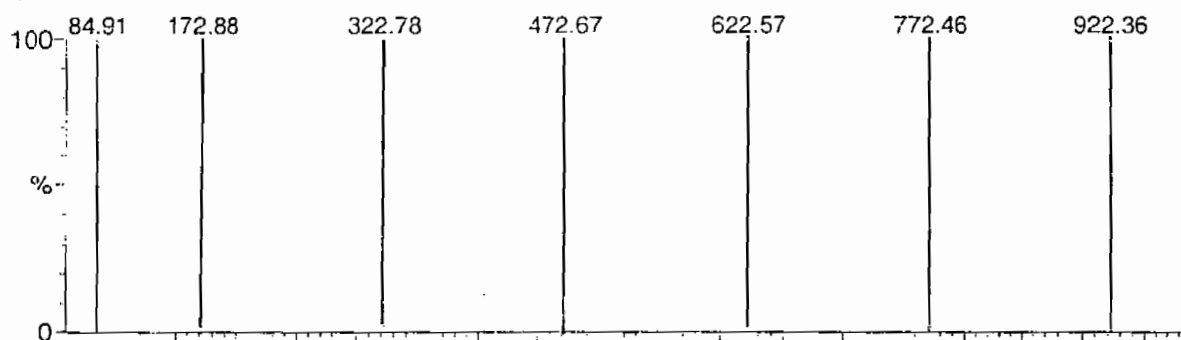
Printed: Tue Jan 08 12:23:51 2008

Data file: FASTMS2 - Uncalibrated

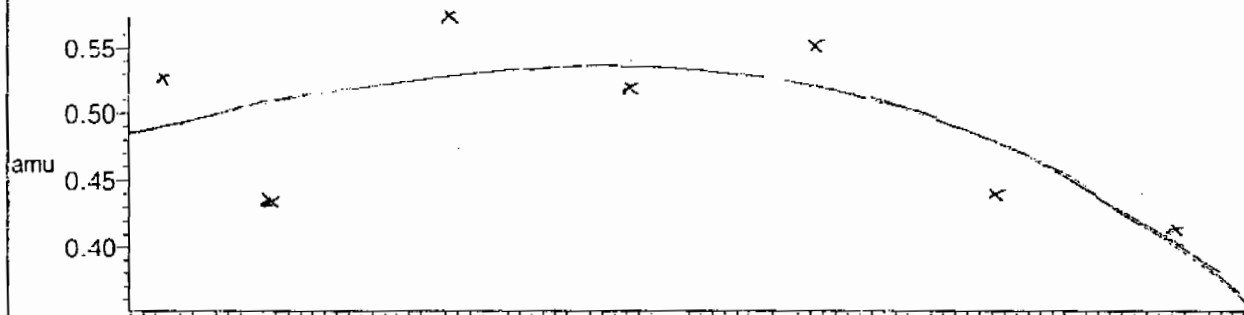
7 matches of 7 tested references



Reference file: Nairb

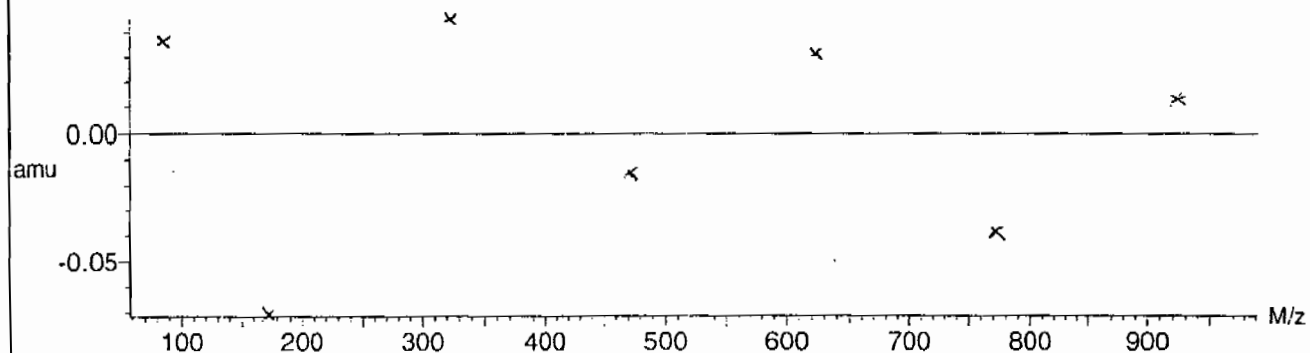


Mass difference (Raw - Ref mass)



Residuals

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



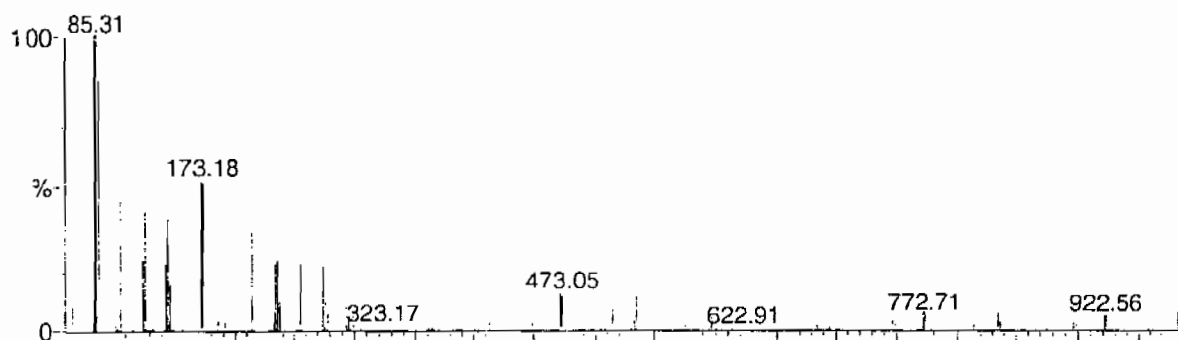
Calibration Report - MS2 Scanning

Page 1 of 1

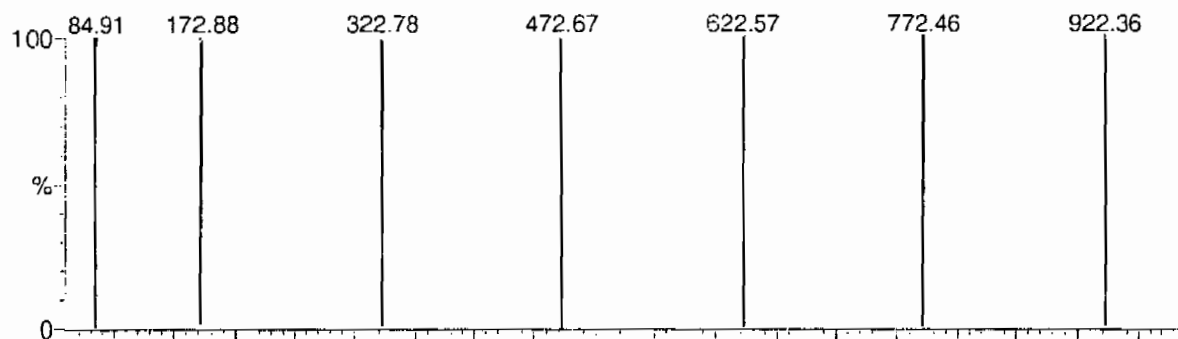
Printed: Tue Jan 08 12:22:56 2008

Data file: SCNMS2 - Uncalibrated

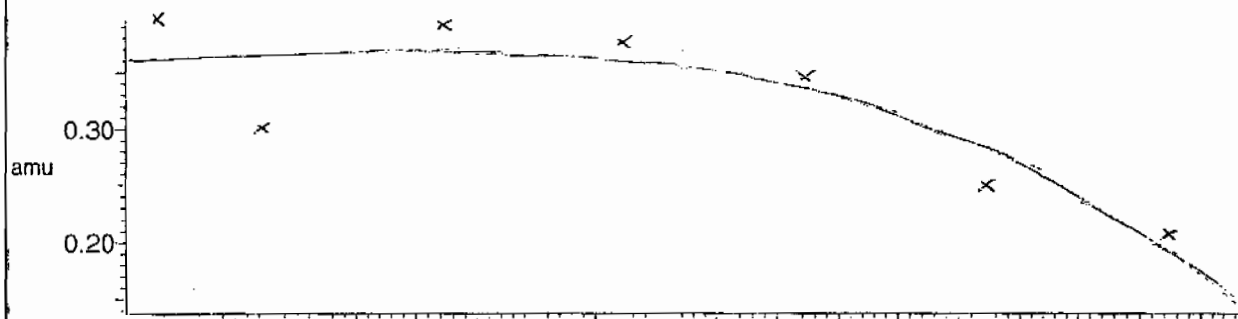
7 matches of 7 tested references



Reference file: Nairb

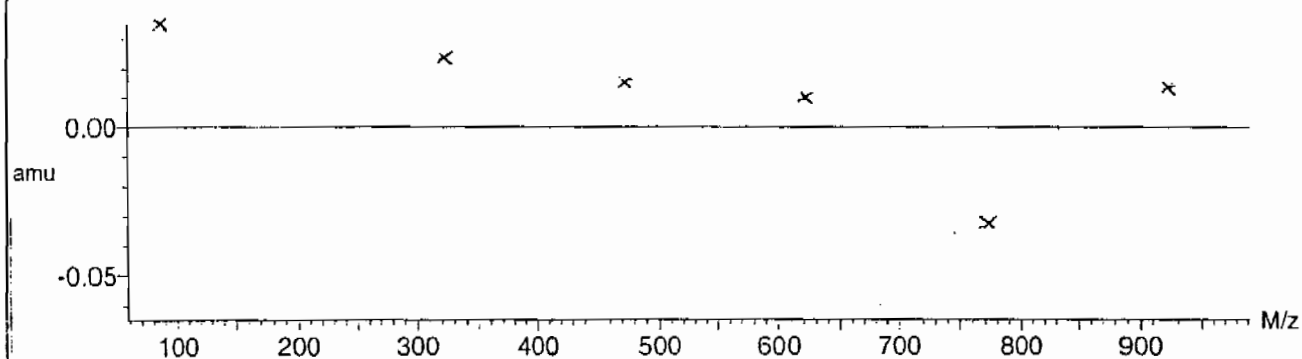


Mass difference (Raw - Ref mass)



Residuals

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



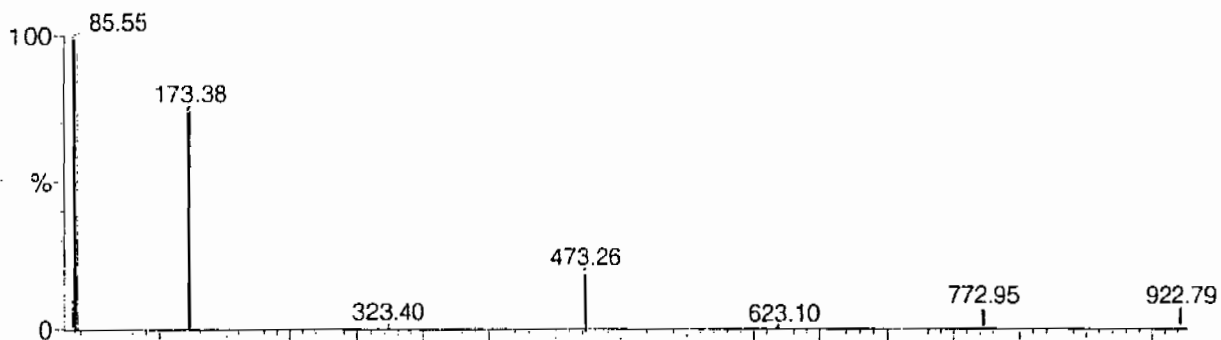
Calibration Report - MS2 Static

Page 1 of 1

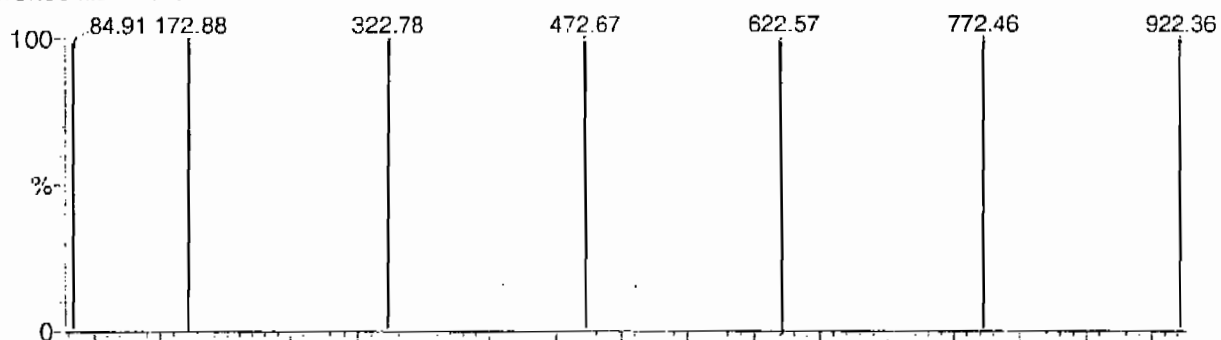
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

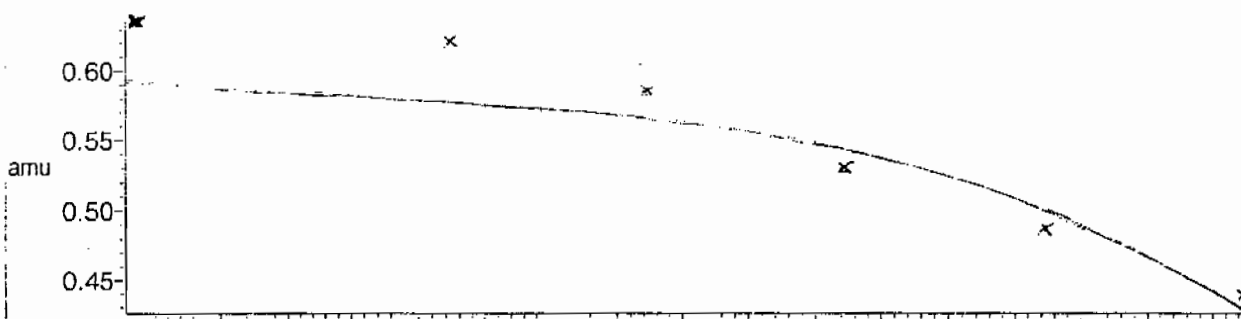
7 matches of 7 tested references



Reference file: Nairb

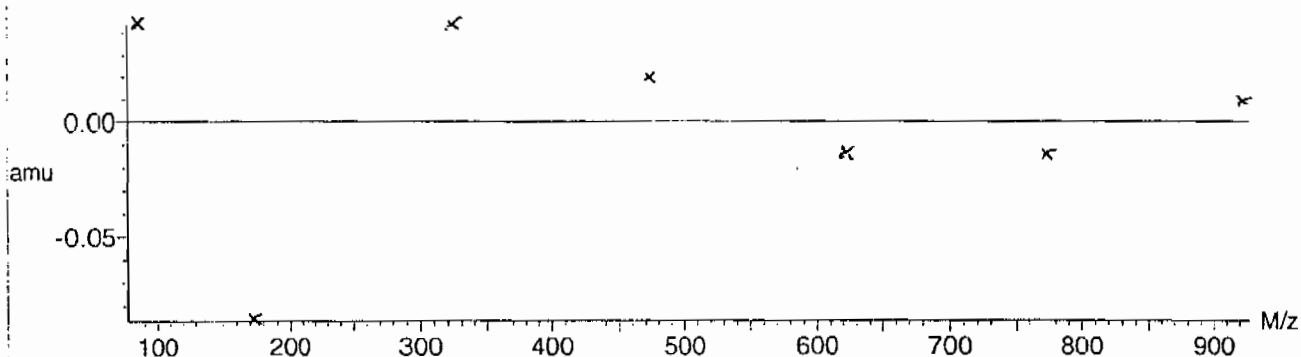


Mass difference (Raw - Ref mass)



Residuals

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



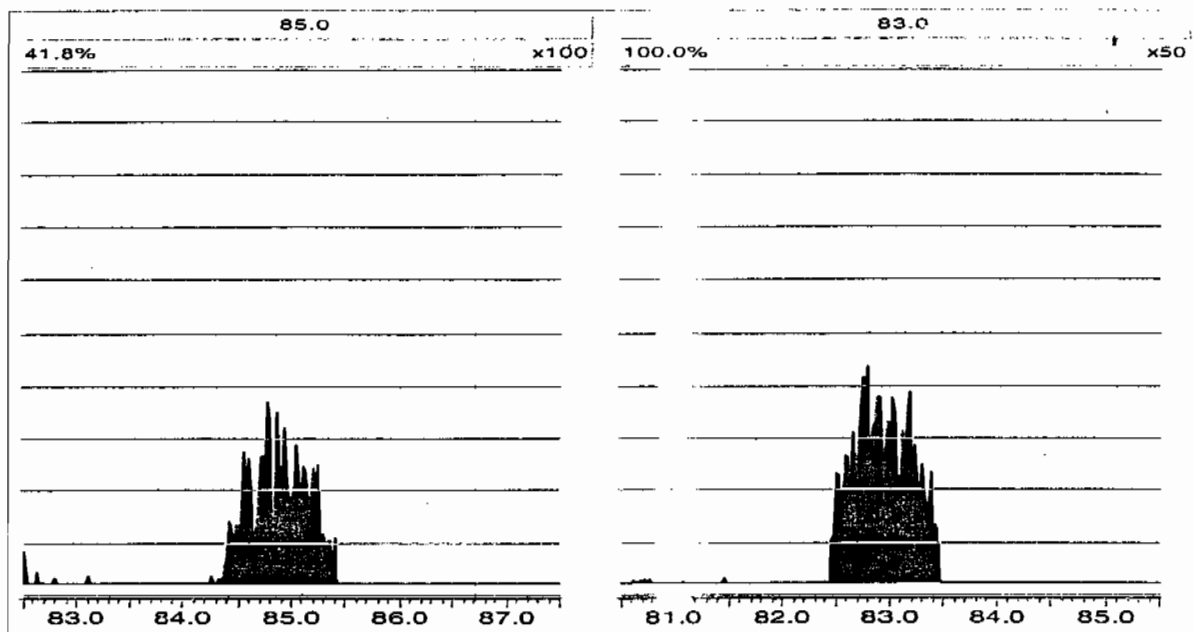
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Wednesday, January 27, 2010 16:13:13 Eastern Standard Time



Perchlorate RT And Area Summary

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

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1303-1

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	per0127006a	27-JAN-10	18703.3				
Lower Area Limit			9351.65				
Upper Area Limit			37406.6				
1202024385	per0127038a	28-JAN-10 00:04	16956.9	3.05	3.06052	1.003	
1202024386	per0127039a	28-JAN-10 00:12	18291.2	3.05	3.0605	1.003	
1202024389	per0127040a	28-JAN-10 00:20	18046.5	2.99	3.01082	1.007	
245137001	per0127056a	28-JAN-10 02:29	18264.7	3.02	3.02325	1.001	
245137002	per0127057a	28-JAN-10 02:37	17722.4	3.02	3.04808	1.009	
245137003	per0127058a	28-JAN-10 02:45	18166	3.02	3.04812	1.009	

SAMPLE DATA

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 245221
 Extraction Type: Filter/DAI
 Client Sample No. RE15-10-7228
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303-1
 GEL Sample ID: 245137001
 Date Filtered: 27-JAN-10
 Injection Volume (uL): 20

%Solids:

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:29	per0127056a
	Perchlorate Isotope Ratio						1	28-JAN-10 02:29	per0127056a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:29	per0127056a
	Perchlorate-O(18)			0.487	ug/L		1	28-JAN-10 02:29	per0127056a

[^] 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\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
 Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127056a

Date: 28-Jan-2010

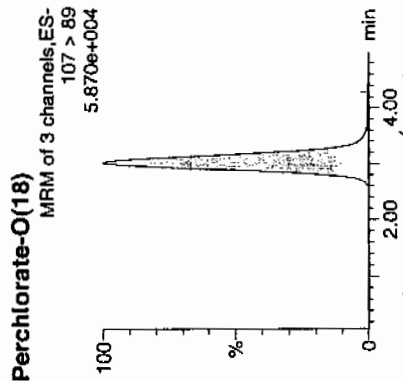
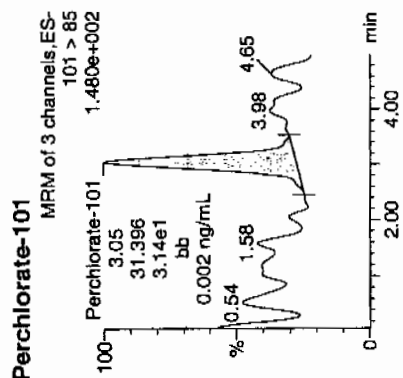
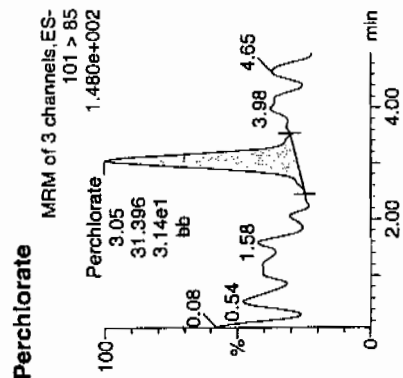
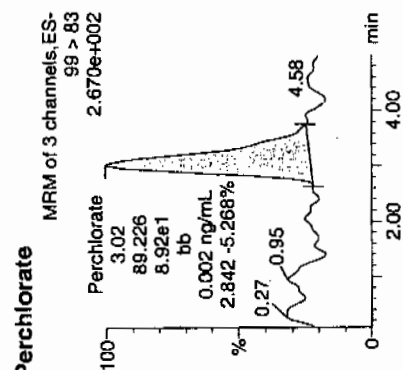
Time: 02:29:41

D: 245137001

Vial: 2:3,D

01-28-10

17420 | 945223 | 1702 | 11



Name	D	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
Perchlorate	245137001	99 > 83	3.02	89,226	89,226	bb			0.0020			38,995	2.84
Perchlorate-101	245137001	101 > 85	3.05	31,396	31,396	bb			0.0021			10,992	
Perchlorate-O(18)	245137001	107 > 89	3.02	18264,697	18264,697	bb			0.4872	97.43	-2.57	72310...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: WATER

Extraction Batch ID: 945221

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

RE15-10-7224

Date Received: 20-JAN-10

GEL Job No (SDG): 10-1303-1

GEL Sample ID: 245137002

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:37	per0127057a
	Perchlorate Isotope Ratio						1	28-JAN-10 02:37	per0127057a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:37	per0127057a
	Perchlorate-O(18)			0.473	ug/L		1	28-JAN-10 02:37	per0127057a

[^] 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\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127057a

Date: 28-Jan-2010

Time: 02:37:42

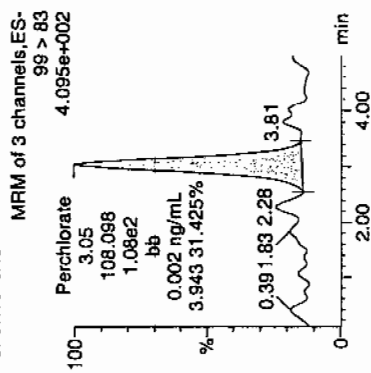
D: 245137002

Vial: 2:3,E

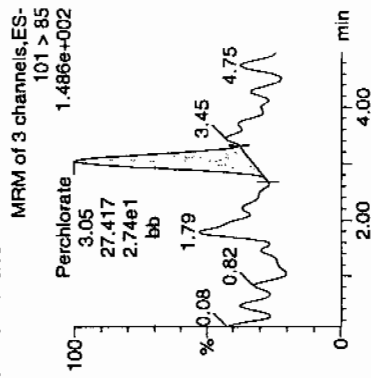
01-28-10

1945223 | 120111

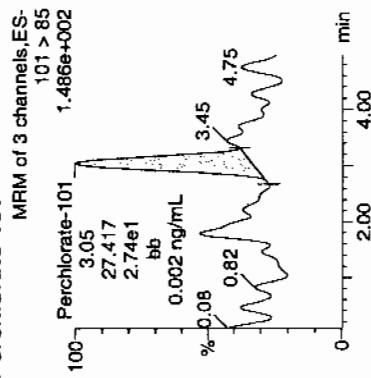
Perchlorate



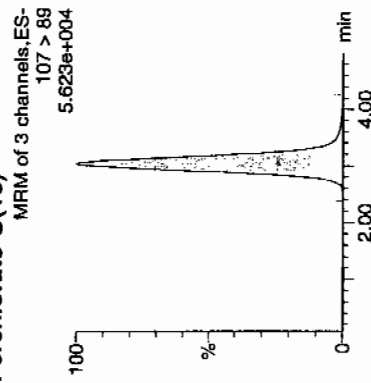
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
245137002	Perchlorate	99 > 83	3.05	108.098	108.098	bb			0.0024			41.761	3.94
245137002	Perchlorate-101	101 > 85	3.05	27.417	27.417	bb			0.0018			3.755	
245137002	Perchlorate-O(18)	107 > 89	3.02	17722.398	17722.398	bb			0.4727	94.54	-5.46	10241....	

012810
40.0500

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 245221
 Extraction Type: Filter/DAI
 Client Sample No. RE15-10-7227
 Date Received: 20-JAN-10
 GEL Job No (SDG): 10-1303-1
 GEL Sample ID: 245137003
 Date Filtered: 27-JAN-10
 Injection Volume (uL): 20

%Solids:

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:45	per0127058a
	Perchlorate Isotope Ratio						1	28-JAN-10 02:45	per0127058a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	28-JAN-10 02:45	per0127058a
	Perchlorate-O(18)			0.485	ug/L		1	28-JAN-10 02:45	per0127058a

[^] 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: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127058a

Date: 28-Jan-2010

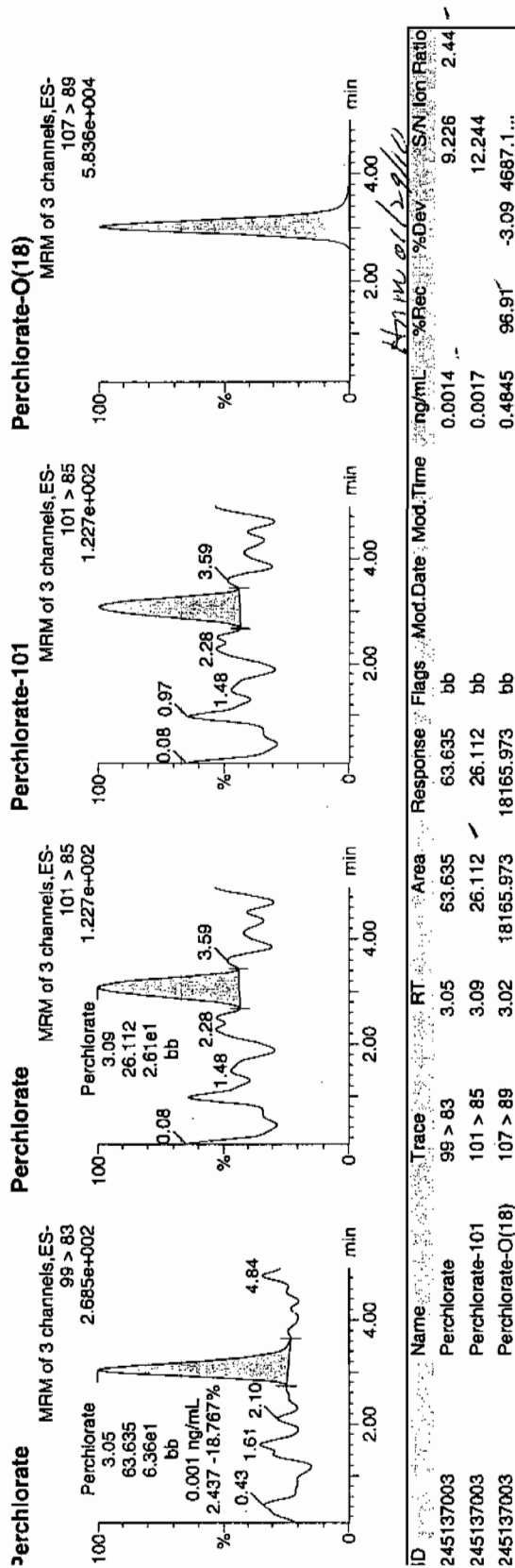
Time: 02:45:44

D: 245137003

Vial: 2:3,F

01-28-10

112223 | 222111



STANDARDS DATA

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1303-1

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 27-JAN-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: 44996.9

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1303-1

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 27-JAN-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: 14970.68

Response Type: External Standard

Curve Type: RF

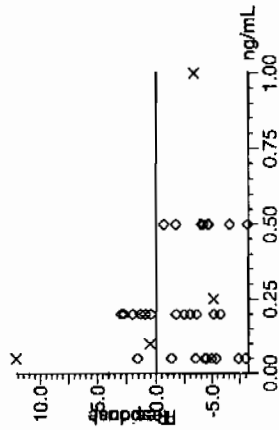
Quantify Calibration Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

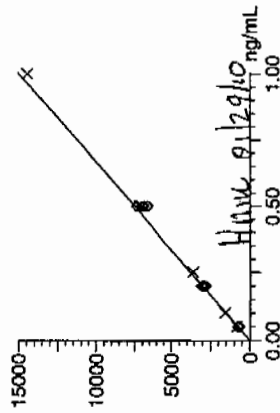
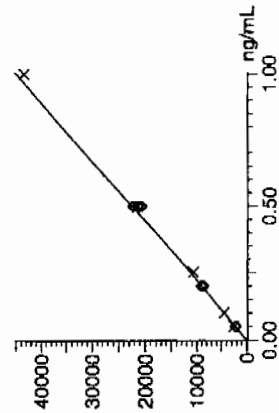
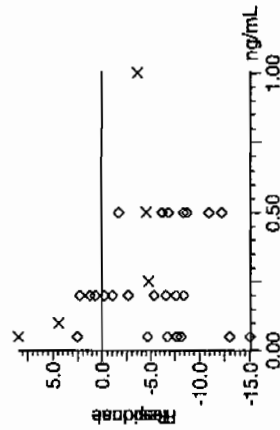
Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per012710a.mdb 28 Jan 2010 10:22:42
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per012710a.cdb 28 Jan 2010 12:32:46

Compound name: Perchlorate
Response Factor: 44996.9
RF SD: 3216.47, % Relative SD: 7.1482
Response type: External Std, Area
Curve type: RF



Compound name: Perchlorate-101
Response Factor: 14970.7
RF SD: 904.041, % Relative SD: 6.03875
Response type: External Std, Area
Curve type: RF



01-28-10

Quantify Calibration Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

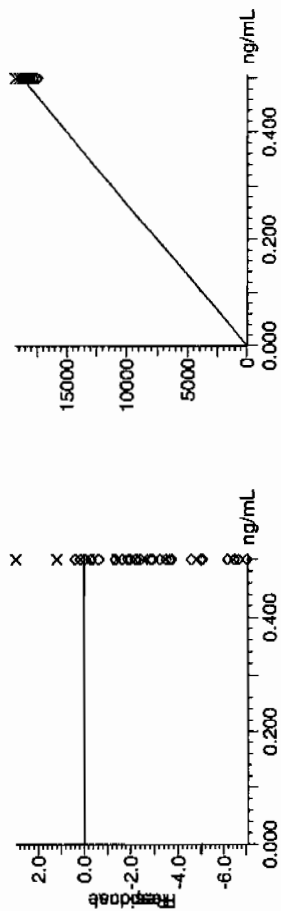
Compound name: Perchlorate-O(18)

Response Factor: 37492.1

RF SD: 809.25, % Relative SD: 2.15846

Response type: External Std, Area

Curve type: RF



Form 3

Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1303-1

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.5	99.32	27-JAN-10 20:11	per0127009a
Perchlorate Isotope Ratio		3.04		27-JAN-10 20:11	per0127009a
Perchlorate-101	.5	.49	98.31	27-JAN-10 20:11	per0127009a

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time

Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Sample Name: per0127009a

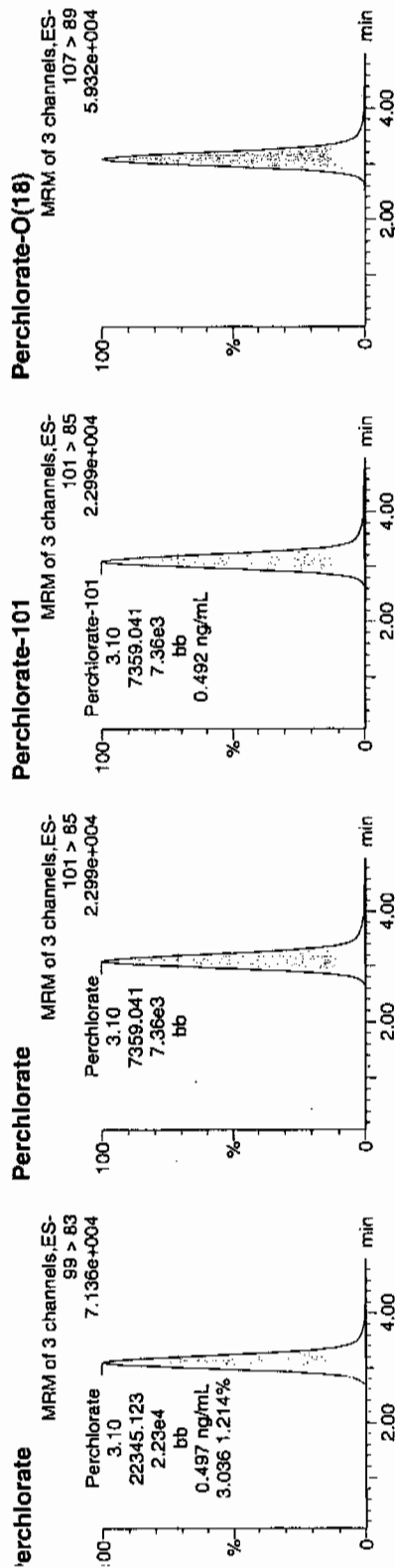
Date: 27-Jan-2010

Time: 20:11:23

Sample ID: WCL100118-06ICV

Sample: 1:2,A

Pass
and
01-28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100118-06ICV	Perchlorate	99 > 83	3.10	22345.123	bb			0.4966	99.32	-0.68	3082.7...	3.04
WCL100118-06ICV	Perchlorate-101	101 > 85	3.10	7359.041	bb			0.4916	98.31	-1.69	5894.4...	
WCL100118-06ICV	Perchlorate-O(18)	107 > 89	3.09	18816.395	bb			0.5019	100.38	0.38	2751.6...	

Perchlorate Continuing Calibration Verification

GEL Job No.(SDG): 10-1303-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.49	98.29	27-JAN-10 21:55	per0127022a
Perchlorate Isotope Ratio		3.15		27-JAN-10 21:55	per0127022a
Perchlorate-101	.5	.47	93.85	27-JAN-10 21:55	per0127022a
Perchlorate	.5	.48	96.02	27-JAN-10 23:40	per0127035a
Perchlorate Isotope Ratio		3.08		27-JAN-10 23:40	per0127035a
Perchlorate-101	.5	.47	93.69	27-JAN-10 23:40	per0127035a
Perchlorate	.5	.48	95.8	28-JAN-10 01:24	per0127048a
Perchlorate Isotope Ratio		3.07		28-JAN-10 01:24	per0127048a
Perchlorate-101	.5	.47	93.67	28-JAN-10 01:24	per0127048a
Perchlorate	.5	.48	95.42	28-JAN-10 03:09	per0127061a
Perchlorate Isotope Ratio		3.14		28-JAN-10 03:09	per0127061a
Perchlorate-101	.5	.46	91.21	28-JAN-10 03:09	per0127061a

Quantify Sample Report MassLynx 4.0 SP4

he GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qtd

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Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Sample Name: per0127022a

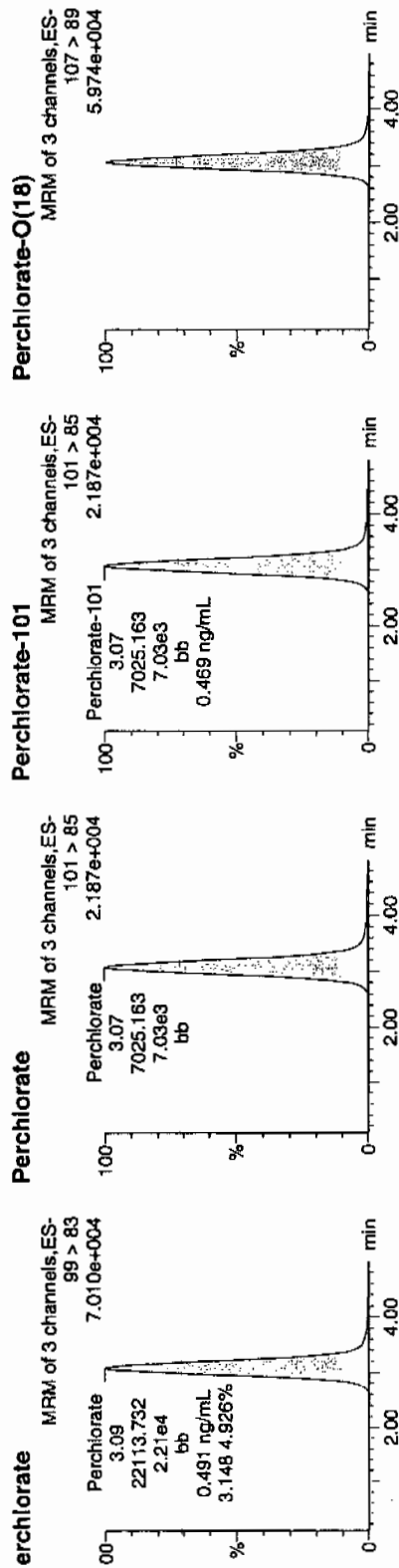
Date: 27-Jan-2010

Time: 21:55:50

File: WCL100118-06CCV

File: 1:2,A

Perchlorate
01-28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
per0127022a	99 > 83	3.09	22113.732	22113.732	bb			0.4915	98.29	-1.71	1382.8...	3.15
per0127022a	101 > 85	3.07	7025.163	7025.163	bb			0.4693	93.85	-6.15	1288.0...	
per0127022a	107 > 89	3.06	18686.016	18686.016	bb			0.4984	99.68	-0.32	7209.1...	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Sample Name: per0127035a

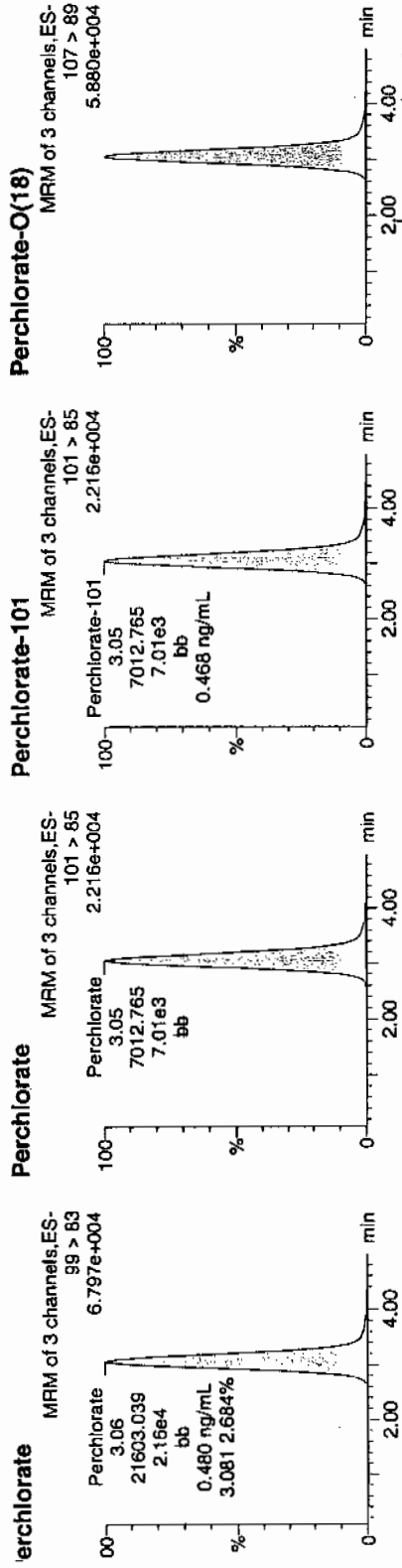
Date: 27-Jan-2010

Time: 23:40:23

File: WCL100118-06CCV

Label: 1:2,A

Perchlorate
01-28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100118-06CCV	Perchlorate	99 > 83	3.06	21603.039	21603.039	bb		0.4801	96.02	-3.98	2226.4...	3.08
WCL100118-06CCV	Perchlorate-101	101 > 85	3.05	7012.765	7012.765	bb		0.4684	93.69	-6.31	2428.2...	
WCL100118-06CCV	Perchlorate-O(18)	107 > 89	3.05	18438.480	18438.480	bb		0.4918	98.36	-1.64	9048.2...	

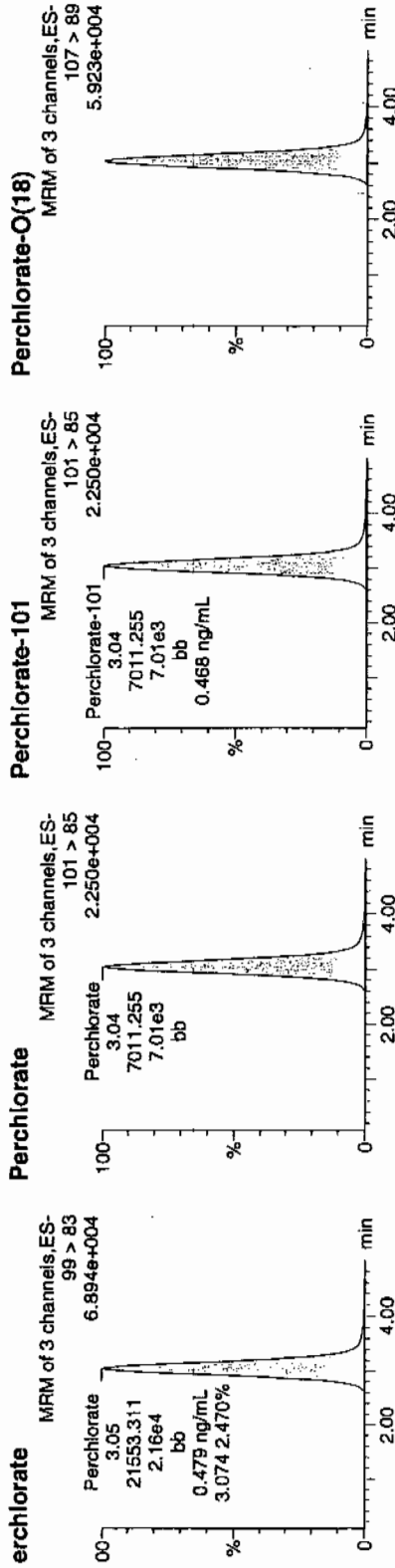
Quantify Sample Report MassLynx 4.0 SP4
 he GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
 Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Sample Name: per0127048a
 Date: 28-Jan-2010
 Time: 01:24:56
 Sample ID: WCL100118-06CCV
 Label: 1:2,A

Pass
01-28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
/CL100118-06CCV	Perchlorate	99 > 83	3.05	21553.311	21553.311	bb		0.4790	95.80	-4.20	3233.7...	3.07
/CL100118-06CCV	Perchlorate-101	101 > 85	3.04	7011.255	7011.255	bb		0.4683	93.67	-6.33	816.729	
/CL100118-06CCV	Perchlorate-Q(18)	107 > 89	3.02	18499.869	18499.869	bb		0.4934	98.69	-1.31	2447.5...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

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Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Sample Name: per0127061a

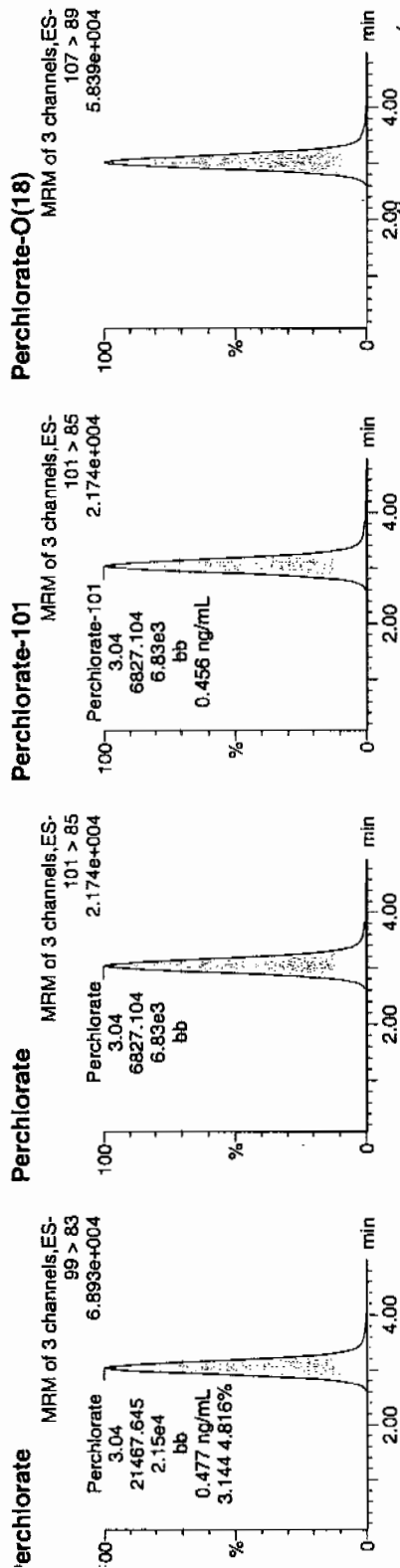
Sample Date: 28-Jan-2010

Sample Time: 03:09:50

Sample ID: WCL100118-06CCV

Sample Label: 1:2,A

Pure
01-28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100118-06CCV	Perchlorate	3.04	21467.645	21467.645	bb			0.4771	95.42	-4.58	4923.9...	3.14
WCL100118-06CCV	Perchlorate-101	3.04	6827.104	6827.104	bb			0.4560	91.21	-8.79	4434.5...	
WCL100118-06CCV	Perchlorate-O(18)	3.02	18287.520	18287.520	bb			0.4878	97.55	-2.45	2382.9...	

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1303-1

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	95.72	27-JAN-10 20:27	per0127011a
Perchlorate Isotope Ratio		2.81		27-JAN-10 20:27	per0127011a
Perchlorate-101	.05	.05	102.55	27-JAN-10 20:27	per0127011a
Perchlorate	.05	.05	101.57	27-JAN-10 22:11	per0127024a
Perchlorate Isotope Ratio		3.2		27-JAN-10 22:11	per0127024a
Perchlorate-101	.05	.05	95.39	27-JAN-10 22:11	per0127024a
Perchlorate	.05	.05	96.55	27-JAN-10 23:56	per0127037a
Perchlorate Isotope Ratio		3.11		27-JAN-10 23:56	per0127037a
Perchlorate-101	.05	.05	93.2	27-JAN-10 23:56	per0127037a
Perchlorate	.05	.05	94.64	28-JAN-10 01:41	per0127050a
Perchlorate Isotope Ratio		3.27		28-JAN-10 01:41	per0127050a

Form 3

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1303-1

Lab Code: GEL

Reporting Units: ug/L

Perchlorate-101	.05	.04	86.96	28-JAN-10 01:41	per0127050a
Perchlorate	.05	.05	92.64	28-JAN-10 03:26	per0127063a
Perchlorate Isotope Ratio		3.02		28-JAN-10 03:26	per0127063a
Perchlorate-101	.05	.05	92.24	28-JAN-10 03:26	per0127063a

Quantify Sample Report MassLynx 4.0 SP4

he GEL Group, LLC Analyst: Charles W. Wilson

atset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

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rinted: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

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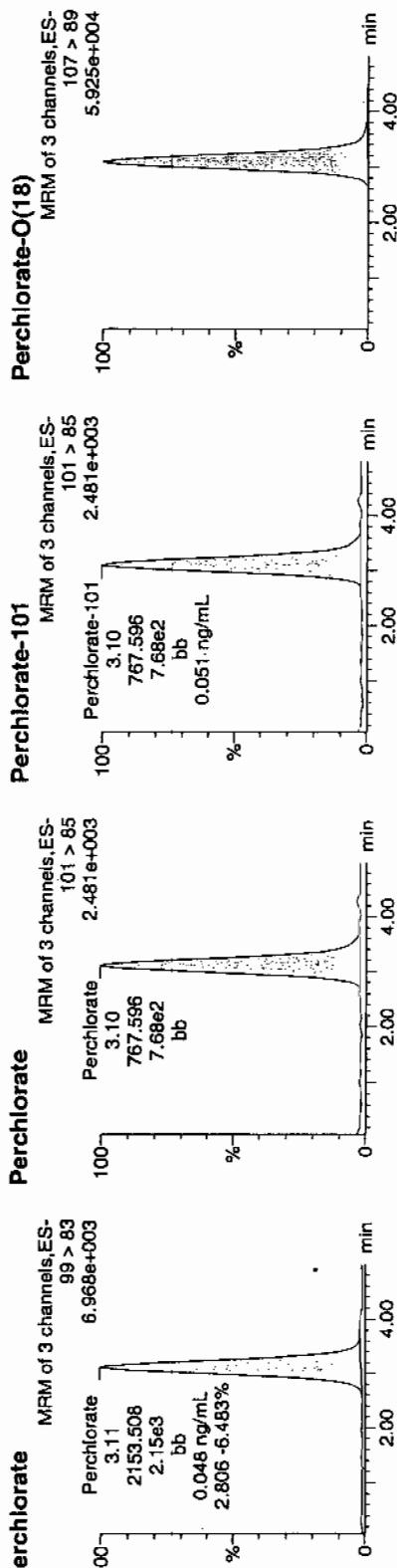
ate: 27-Jan-2010

ime: 20:27:27

); WCL100118-07CRI

ial: 1:2,B

Pure
CND
01-28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
/CL100118-07CRI	Perchlorate	3.11	2153.508	2153.508	bb			0.0479	95.72	-4.28	654.175	2.81
/CL100118-07CRI	Perchlorate-101	3.10	767.596	767.596	bb			0.0513	102.55	2.55	790.867	
/CL100118-07CRI	Perchlorate-O(18)	3.10	18733.061	18733.061	bb			0.4997	99.93	-0.07	1495.5...	

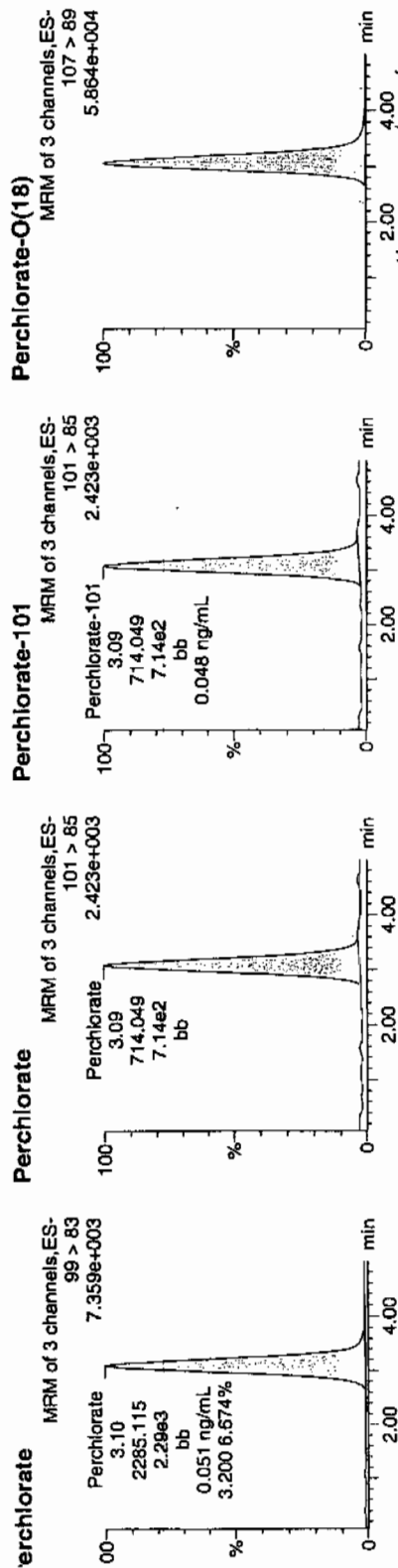
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Acquired: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Sample Name: per0127024a
Date: 27-Jan-2010
Time: 22:11:54
File: WCL100118-07CRI
Label: 1:2,B

Pass and 0-28.10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN: Ion Ratio
/CL100118-07CRI	Perchlorate	3.10	2285.115	2285.115	bb			0.0508	101.57	1.57	722.371 3.20
/CL100118-07CRI	Perchlorate-101	3.09	714.049	714.049	bb			0.0477	95.39	-4.61	823.829
/CL100118-07CRI	Perchlorate-O(18)	3.07	18776.434	18776.434	bb			0.5008	100.16	0.16	2962.4...

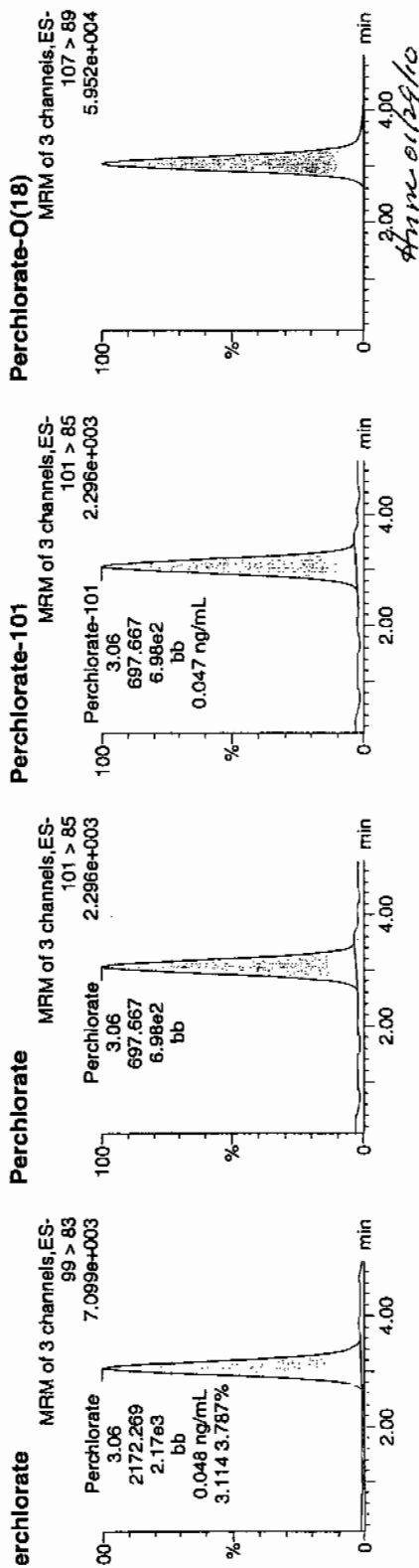
4/11/10 01:29/10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Sample Name: per0127037a
 Date: 27-Jan-2010
 Time: 23:56:28
 File: WCL100118-07CRI
 Label: 1:2,B

Pure
 and
 01-28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
/CL100118-07CRI	Perchlorate	3.06	2172.269	2172.269	bb			0.0483	96.55	-3.45	390.352	3.11
/CL100118-07CRI	Perchlorate-101	3.06	697.667	697.667	bb			0.0466	93.20	-6.80	456.926	
/CL100118-07CRI	Perchlorate-O(18)	3.05	18625.547	18625.547	bb			0.4968	99.36	-0.64	10317.000	

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

atset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

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rnted: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

ame: per0127050a

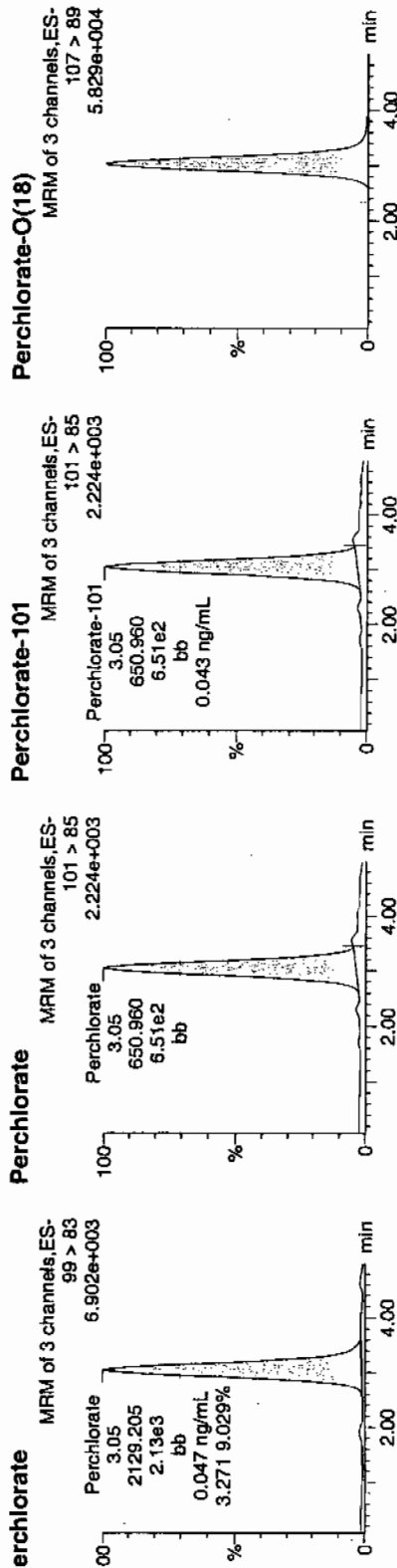
ate: 28-Jan-2010

ime: 01:41:14

D: WCL100118-07CRI

lali: 1:2,B

Perchlorate
01-28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
/CL100118-07CRI	99 > 83	3.05	2129.205	2129.205	bb			0.0473	94.64	-5.36	568.476	3.27
/CL100118-07CRI	101 > 85	3.05	650.960	650.960	bb			0.0435	86.96	-13.04	440.157	
/CL100118-07CRI	107 > 89	3.02	18086.613	18086.613	bb			0.4824	96.48	-3.52	4446.6...	

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time

Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Sample Name: per0127063a

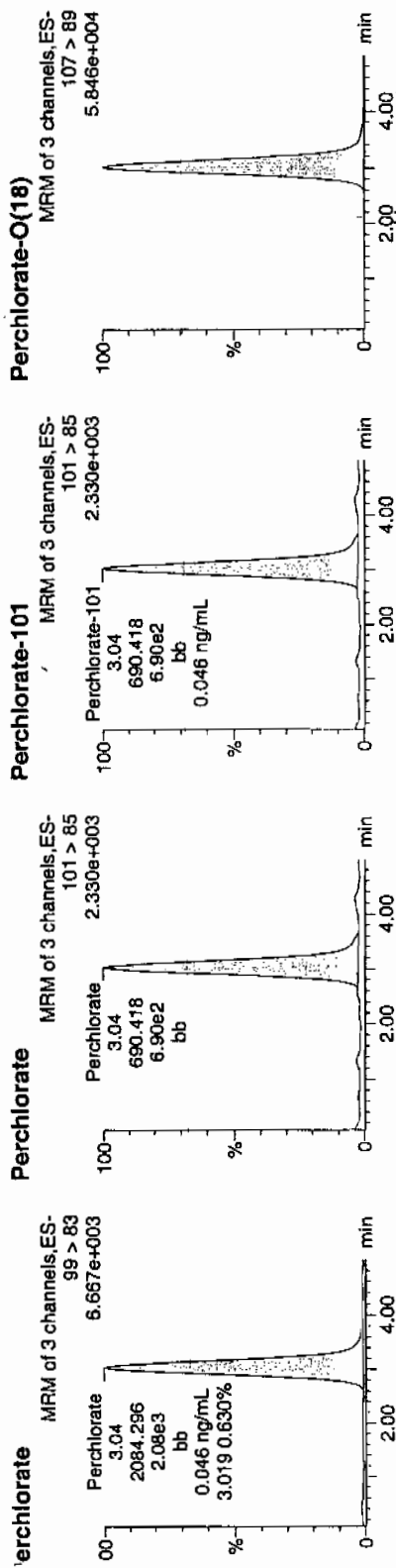
Sample Date: 28-Jan-2010

Sample Time: 03:26:09

Sample ID: WCL100118-07CRI

Sample Label: 1:2,B

Pure
01-28-10



Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
/CL100118-07CRI	99 > 83	3.04	2084.296	2084.296	bb			0.0463	92.64	-7.36	188.854	3.02
/CL100118-07CRI	101 > 85	3.04	690.418	690.418	bb			0.0461	92.24	-7.76	384.137	
/CL100118-07CRI	107 > 89	3.02	18325.434	18325.434	bb			0.4888	97.76	-2.24	14888...	

QUALITY CONTROL

Perchlorate Analysis Data Sheet

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

Lab Name: GEL Laboratories LLCLab Code: GELInstrument: LCMSMSMethod: EPA 6850 ModifiedMatrix: WATERExtraction Batch ID: 245221Extraction Type: Filter/DAISample Volume/Weight: 10.0 mLConcentrated Extract Volume: 10.0

Client Sample No.

MBDate Received: 27-JAN-10GEL Job No (SDG): 10-1303-1GEL Sample ID: 1202024385Date Filtered: 27-JAN-10Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.050	ug/L	U	1	28-JAN-10 00:04	per0127038a
	Perchlorate Isotope Ratio						1	28-JAN-10 00:04	per0127038a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	28-JAN-10 00:04	per0127038a
	Perchlorate-O(18)			0.452	ug/L		1	28-JAN-10 00:04	per0127038a

[^] 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: Charters W. Wilson

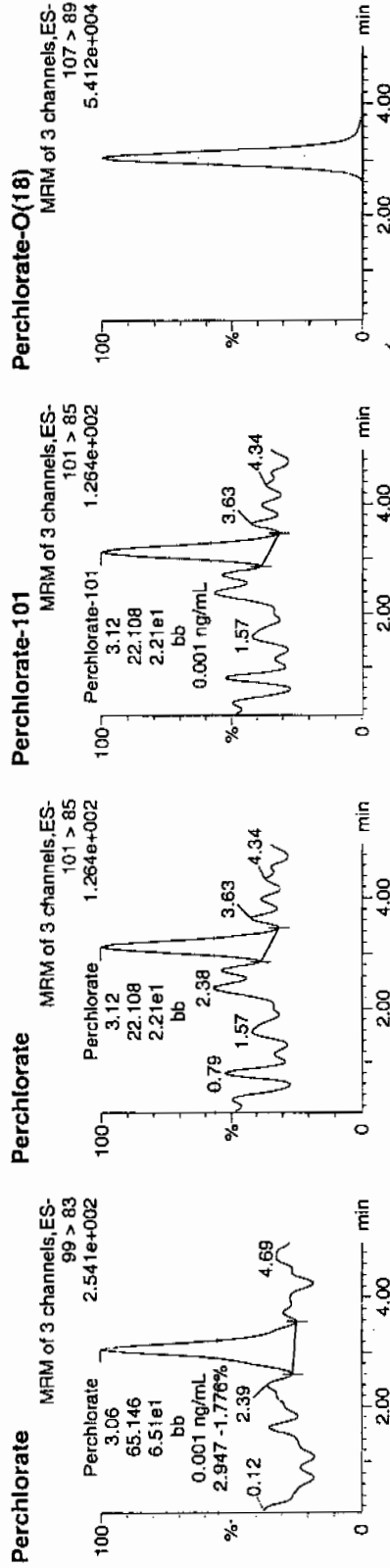
Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127038a
Date: 28-Jan-2010
Time: 00:04:30
ID: 1202024385
Vial: 2:1,A

0.001
01-28-10

LANU | 945223 | 1202 | 100 | 1 |



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202024385	Perchlorate	99 > 83	3.06	65.146	65.146	bb			0.0014			51.769	2.95
1202024385	Perchlorate-101	101 > 85	3.12	22.108	22.108	bb			0.0015			7.267	
1202024385	Perchlorate-O(18)	107 > 89	3.05	16956.916	16956.916	bb			0.4523	90.46	-9.54	1759.2...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: WATER

Extraction Batch ID: 945221

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

LCS

Date Received: 27-JAN-10

GEL Job No (SDG): 10-1303-1

GEL Sample ID: 1202024386

Date Filtered: 27-JAN-10

Injection Volume (uL): 20

%Solids:

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.05	.2	0.195	ug/L	J	1	28-JAN-10 00:12	per0127039a
	Perchlorate Isotope Ratio			3.18			1	28-JAN-10 00:12	per0127039a
14797-73-0	Perchlorate-101	.05	.2	0.185	ug/L	J	1	28-JAN-10 00:12	per0127039a
	Perchlorate-O(18)			0.488	ug/L		1	28-JAN-10 00:12	per0127039a

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

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Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
Printed: Thursday, January 28, 2010 12:45:42 PM Eastern Standard Time

Name: per0127039a

Date: 28-Jan-2010

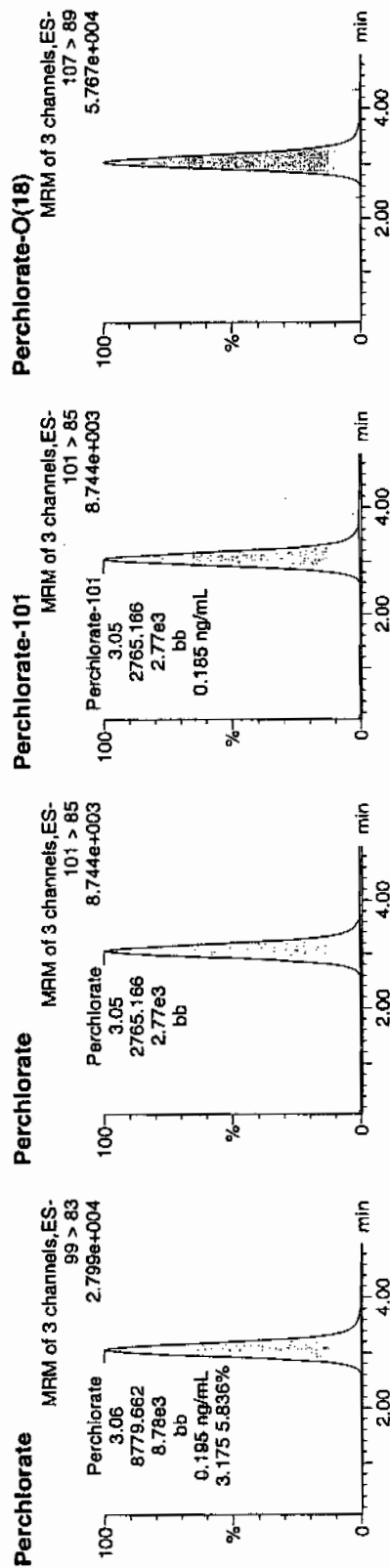
Time: 00:12:43

ID: 1202024386

Vial: 2:1,B

01-28-10

1202024386 | 1202024386 | 1202024386



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202024386	Perchlorate	99 > 83	3.06	8779.662	8779.662	bb			0.1951	97.56	-2.44	1725.0...	3.18
1202024386	Perchlorate-101	101 > 85	3.05	2765.166	2765.166	bb			0.1847	92.35	-7.65	1471.0...	
1202024386	Perchlorate-O(18)	107 > 89	3.05	18291.191	18291.191	bb			0.4879	97.57	-2.43	2754.7...	

8779.662
44996.9
= 0.1951
HAW
01/29/10

MISCELLANEOUS DATA

Prep Logbook

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

Batch ID: 945221 Verified by: _____
 Analyst: Charles Wilson Lab SOP: GL-OA-E-067 REV# 6
 Method: SW846 6850 Modified Instrument: MicroMass Quattro Ultima

Sample ID	Run Date	Initial Volume (mL)	Final Volume (mL)	Prepped Factor (mL/mL)
1202024385 MB	27-JAN-2010 10:25:18	10	10	1
1202024386 LCS	27-JAN-2010 10:25:18	10	10	1
245089001	27-JAN-2010 10:25:18	10	10	1
245089002	27-JAN-2010 10:25:18	10	10	1
1202024387 MS (245089002)	27-JAN-2010 10:25:18	10	10	1
1202024388 MSD (245089002)	27-JAN-2010 10:25:18	10	10	1
245089003	27-JAN-2010 10:25:18	10	10	1
245089004	27-JAN-2010 10:25:18	10	10	1
245110001	27-JAN-2010 10:25:18	10	10	1
245110002	27-JAN-2010 10:25:18	10	10	1
245112001	27-JAN-2010 10:25:18	10	10	1
245120001	27-JAN-2010 10:25:18	10	10	1
245135001	27-JAN-2010 10:25:18	10	10	1
245135002	27-JAN-2010 10:25:18	10	10	1
245137001	27-JAN-2010 10:25:18	10	10	1
245137002	27-JAN-2010 10:25:18	10	10	1
245137003	27-JAN-2010 10:25:18	10	10	1
245140001	27-JAN-2010 10:25:18	10	10	1
245231002	27-JAN-2010 10:25:18	10	10	1
245237001	27-JAN-2010 10:25:18	10	10	1
245237002	27-JAN-2010 10:25:18	10	10	1
245242001	27-JAN-2010 10:25:18	10	10	1
245242002	27-JAN-2010 10:25:18	10	10	1
1202024389 ICS	27-JAN-2010 10:25:18	10	10	1

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
ICS	1202024389	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.2	mL	Desalting cartridges used: 090413-1-Ba & 091125-1-H
LCS	1202024386	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.2	mL	Samples 245237001 and -002 were very foamy when filtering. Will analyze with instrument blanks following.
MS	1202024387	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.2	mL	Sample 245231001 was deleted from the batch due to depleted sample volume.
MSD	1202024388	10 ug/L ICV/CCV Second Source	UCL091230-01.2	.2	mL	
RGNT	All	500 ppm Carbonate, Bicarbonate, Chloride, Sulfate	1236492	10	mL	
RGNT	All	0.25% HPLC Grade Water	1246195	10	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 01/27/10
 Extr. Injection Volume: 20uL
 Sequence Number: per012710a
 Initial Calibration Date: 01/27/10
 Method: EPA 6850-Modified
 Int. Std.: UCL100122-01
 Mobile Phase Lot#: 1254342, 1246195
 Standard-Samp Reagent Lot#: 1233976
 Reviewed BY: *Amr*
 Date: 01/29/10
 SOP: GL-OA-E-067 Rev.6
 Alt Check Std. ID: WCL100118-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0127001a	IPB001	CWW	1/27/2010 19:06			1		USE	B
per0127002a	IPB001	CWW	1/27/2010 19:15			1		USE	B
per0127003a	WCLICAL-01	CWW	1/27/2010 19:23			1		USE	I
per0127004a	WCLICAL-02	CWW	1/27/2010 19:31			1		USE	I
per0127005a	WCLICAL-03	CWW	1/27/2010 19:39			1		USE	I
per0127006a	WCLICAL-04	CWW	1/27/2010 19:47			1		USE	I
per0127007a	WCLICAL-05	CWW	1/27/2010 19:55			1		USE	I
per0127008a	IPB002	CWW	1/27/2010 20:03			1		USE	B
per0127009a	WCLICV	CWW	1/27/2010 20:11			1		USE	C
per0127010a	IPB003	CWW	1/27/2010 20:19			1		USE	B
per0127011a	WCLCRI	CWW	1/27/2010 20:27			1		USE	C
per0127012a	1202023100	CWW	1/27/2010 20:35	944720	VARIOUS	1	LANL	USE	S
per0127013a	1202023101	CWW	1/27/2010 20:43	944720	VARIOUS	1	LANL	USE	S
per0127014a	1202023104	CWW	1/27/2010 20:51	944720	VARIOUS	1	LANL	USE	S
per0127015a	244852001	CWW	1/27/2010 20:59	944720	10-1263	1	LANL	USE	S
per0127016a	1202023102	CWW	1/27/2010 21:07	944720	10-1263	1	LANL	USE	S
per0127017a	1202023103	CWW	1/27/2010 21:15	944720	10-1263	1	LANL	USE	S
per0127018a	244852002	CWW	1/27/2010 21:23	944720	10-1263	1	LANL	USE	S
per0127019a	244852003	CWW	1/27/2010 21:31	944720	10-1263	1	LANL	USE	S
per0127020a	244852004	CWW	1/27/2010 21:39	944720	10-1263	1	LANL	USE	S
per0127021a	244881001	CWW	1/27/2010 21:47	944720	10-1264-1	1	LANL	USE	S
per0127022a	WCLCCV	CWW	1/27/2010 21:55			1		USE	C
per0127023a	IPB004	CWW	1/27/2010 22:03			1		USE	B
per0127024a	WCLCRI	CWW	1/27/2010 22:11			1		USE	C
per0127025a	244881002	CWW	1/27/2010 22:19	944720	10-1264-1	1	LANL	USE	S
per0127026a	244881003	CWW	1/27/2010 22:27	944720	10-1264-1	1	LANL	USE	S
per0127027a	244881004	CWW	1/27/2010 22:35	944720	10-1264-1	1	LANL	USE	S
per0127028a	244888001	CWW	1/27/2010 22:44	944720	10-1278	1	LANL	USE	S
per0127029a	244888002	CWW	1/27/2010 22:52	944720	10-1278	1	LANL	USE	S

per0127030a	244888003	CWW	1/27/2010 23:00	944720	10-1278	1	LANL	USE	S
per0127031a	244888004	CWW	1/27/2010 23:08	944720	10-1278	1	LANL	USE	S
per0127032a	244888005	CWW	1/27/2010 23:16	944720	10-1278	1	LANL	USE	S
per0127033a	244888006	CWW	1/27/2010 23:24	944720	10-1278	1	LANL	USE	S
per0127034a	244902001	CWW	1/27/2010 23:32	944720	10-1274	1	LANL	USE	S
per0127035a	WCLCCV	CWW	1/27/2010 23:40			1		USE	C
per0127036a	IPB005	CWW	1/27/2010 23:48			1		USE	B
per0127037a	WCLCRI	CWW	1/27/2010 23:56			1		USE	C
per0127038a	1202024385	CWW	1/28/2010 0:04	945223	VARIOUS	1	LANL	USE	S
per0127039a	1202024386	CWW	1/28/2010 0:12	945223	VARIOUS	1	LANL	USE	S
per0127040a	1202024389	CWW	1/28/2010 0:20	945223	VARIOUS	1	LANL	USE	S
per0127041a	245089001	CWW	1/28/2010 0:28	945223	10-1293	1	LANL	USE	S
per0127042a	245089002	CWW	1/28/2010 0:36	945223	10-1293	1	LANL	USE	S
per0127043a	1202024387	CWW	1/28/2010 0:44	945223	10-1293	1	LANL	USE	S
per0127044a	1202024388	CWW	1/28/2010 0:52	945223	10-1293	1	LANL	USE	S
per0127045a	245089003	CWW	1/28/2010 1:00	945223	10-1293	1	LANL	USE	S
per0127046a	245089004	CWW	1/28/2010 1:08	945223	10-1293	1	LANL	USE	S
per0127047a	245110001	CWW	1/28/2010 1:16	945223	10-1295	1	LANL	USE	S
per0127048a	WCLCCV	CWW	1/28/2010 1:24			1		USE	C
per0127049a	IPB006	CWW	1/28/2010 1:33			1		USE	B
per0127050a	WCLCRI	CWW	1/28/2010 1:41			1		USE	C
per0127051a	245110002	CWW	1/28/2010 1:49	945223	10-1295	1	LANL	USE	S
per0127052a	245112001	CWW	1/28/2010 1:57	945223	10-1325	1	LANL	USE	S
per0127053a	245120001	CWW	1/28/2010 2:05	945223	10-1328-1	1	LANL	USE	S
per0127054a	245135001	CWW	1/28/2010 2:13	945223	10-1300-1	1	LANL	USE	S
per0127055a	245135002	CWW	1/28/2010 2:21	945223	10-1300-1	1	LANL	USE	S
per0127056a	245137001	CWW	1/28/2010 2:29	945223	10-1303-1	1	LANL	USE	S
per0127057a	245137002	CWW	1/28/2010 2:37	945223	10-1303-1	1	LANL	USE	S
per0127058a	245137003	CWW	1/28/2010 2:45	945223	10-1303-1	1	LANL	USE	S
per0127059a	245140001	CWW	1/28/2010 2:53	945223	10-1335	1	LANL	USE	S
per0127060a	245231002	CWW	1/28/2010 3:01	945223	10-1344	1	LANL	USE	S
per0127061a	WCLCCV	CWW	1/28/2010 3:09			1		USE	C
per0127062a	IPB007	CWW	1/28/2010 3:18			1		USE	B
per0127063a	WCLCRI	CWW	1/28/2010 3:26			1		USE	C
per0127064a	245237001	CWW	1/28/2010 3:34	945223	10-1346	1	LANL	DUSE-DL	S
per0127065a	IPB008	CWW	1/28/2010 3:42			1		USE	B
per0127066a	245237002	CWW	1/28/2010 3:50	945223	10-1346	1	LANL	DUSE-DL	S

per0127067a	IPB009	CWW	1/28/2010 3:58				1			USE	B
per0127068a	245242001	CWW	1/28/2010 4:07				1		LANL	USE	S
per0127069a	245242002	CWW	1/28/2010 4:15				1		LANL	USE	S
per0127070a	WCLCCV	CWW	1/28/2010 4:23				1			USE	C
per0127071a	IPB010	CWW	1/28/2010 4:31				1			USE	B
per0127072a	WCLCRI	CWW	1/28/2010 4:39				1			USE	C
per0127073a	1202023081	CWW	1/28/2010 4:47			944711	1	10-1272	LANL	USE	S
per0127074a	1202023082	CWW	1/28/2010 4:55			944711	1	10-1272	LANL	USE	S
per0127075a	1202023085	CWW	1/28/2010 5:04			944711	1	10-1272	LANL	USE	S
per0127076a	244899001	CWW	1/28/2010 5:12			944711	1	10-1272	LANL	USE	S
per0127077a	1202023083	CWW	1/28/2010 5:20			944711	1	10-1272	LANL	USE	S
per0127078a	1202023084	CWW	1/28/2010 5:28			944711	1	10-1272	LANL	USE	S
per0127079a	244899002	CWW	1/28/2010 5:36			944711	1	10-1272	LANL	USE	S
per0127080a	244899003	CWW	1/28/2010 5:44			944711	1	10-1272	LANL	USE	S
per0127081a	244899004	CWW	1/28/2010 5:52			944711	1	10-1272	LANL	USE	S
per0127082a	244899005	CWW	1/28/2010 6:00			944711	1	10-1272	LANL	USE	S
per0127083a	WCLCCV	CWW	1/28/2010 6:08				1			USE	C
per0127084a	IPB011	CWW	1/28/2010 6:16				1			USE	B
per0127085a	WCLCRI	CWW	1/28/2010 6:24				1			USE	C
per0127086a	244899006	CWW	1/28/2010 6:32			944711	1	10-1272	LANL	USE	S
per0127087a	244899007	CWW	1/28/2010 6:40			944711	1	10-1272	LANL	USE	S
per0127088a	244899008	CWW	1/28/2010 6:48			944711	1	10-1272	LANL	USE	S
per0127089a	244899009	CWW	1/28/2010 6:56			944711	1	10-1272	LANL	USE	S
per0127090a	244899010	CWW	1/28/2010 7:04			944711	1	10-1272	LANL	USE	S
per0127091a	244899011	CWW	1/28/2010 7:12			944711	1	10-1272	LANL	USE	S
per0127092a	244899012	CWW	1/28/2010 7:20			944711	1	10-1272	LANL	USE	S
per0127093a	244899013	CWW	1/28/2010 7:28			944711	1	10-1272	LANL	USE	S
per0127094a	244899014	CWW	1/28/2010 7:36			944711	1	10-1272	LANL	USE	S
per0127095a	244899015	CWW	1/28/2010 7:45			944711	1	10-1272	LANL	USE	S
per0127096a	WCLCCV	CWW	1/28/2010 7:53				1			USE	C
per0127097a	IPB012	CWW	1/28/2010 8:01				1			USE	B
per0127098a	WCLCRI	CWW	1/28/2010 8:09				1			USE	C
per0127099a	244899016	CWW	1/28/2010 8:17			944711	1	10-1272	LANL	USE	S
per0127100a	244899017	CWW	1/28/2010 8:25			944711	1	10-1272	LANL	USE	S
per0127101a	244899018	CWW	1/28/2010 8:33			944711	1	10-1272	LANL	USE	S
per0127102a	244899019	CWW	1/28/2010 8:41			944711	1	10-1272	LANL	USE	S
per0127103a	244899020	CWW	1/28/2010 8:49			944711	1	10-1272	LANL	USE	S

per0127104a	IPB013	CWW	1/28/2010 8:58	Screen	Inhouse	1	GEL	USE	B
per0127105a	1260110 Supp	CWW	1/28/2010 9:06			1		DUSE	B
per0127106a	WCLCCV	CWW	1/28/2010 9:14			1		USE	C
per0127107a	IPB014	CWW	1/28/2010 9:22			1		USE	B
per0127108a	WCLCRI	CWW	1/28/2010 9:30			1		USE	C

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Name: per0127043a

Date: 28-Jan-2010

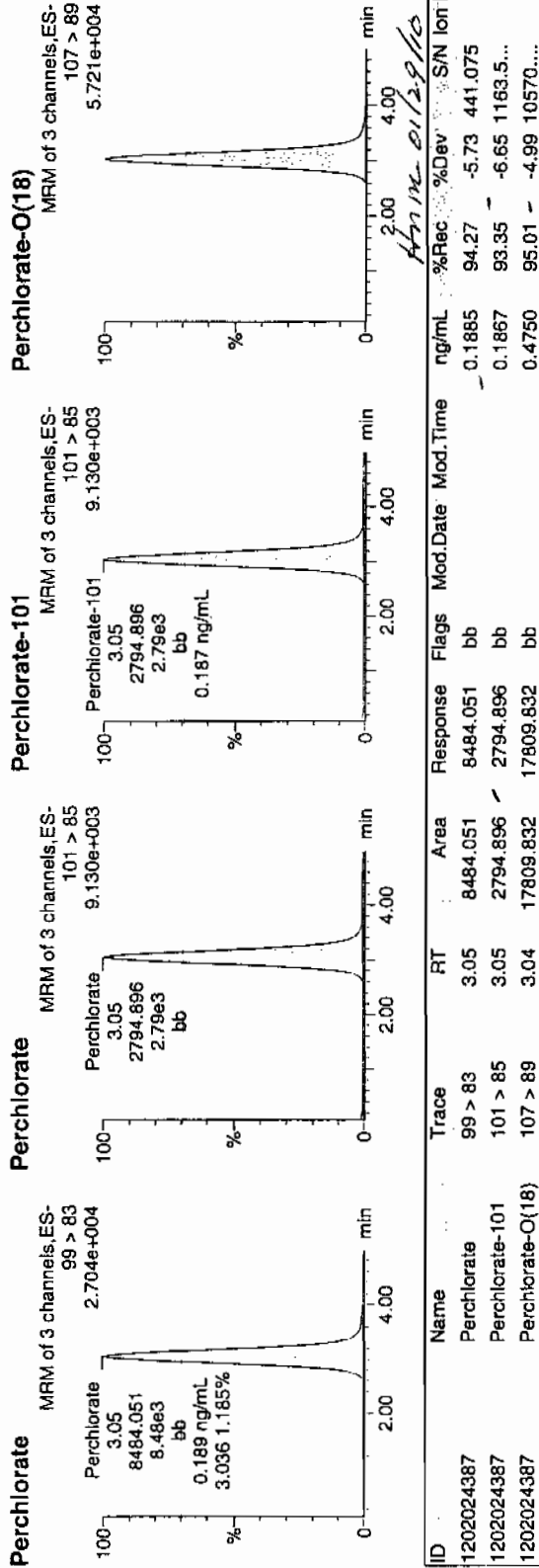
Time: 00:44:48

ID: 1202024387

Vial: 2:1,F

01-28-10

1202024387 | 1202024387 | 11



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

Dataset: C:\MassLynx\Perchlorate.PRO\per012710a.qld

Last Altered: Thursday, January 28, 2010 12:32:47 PM Eastern Standard Time
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Name: per0127044a

Date: 28-Jan-2010

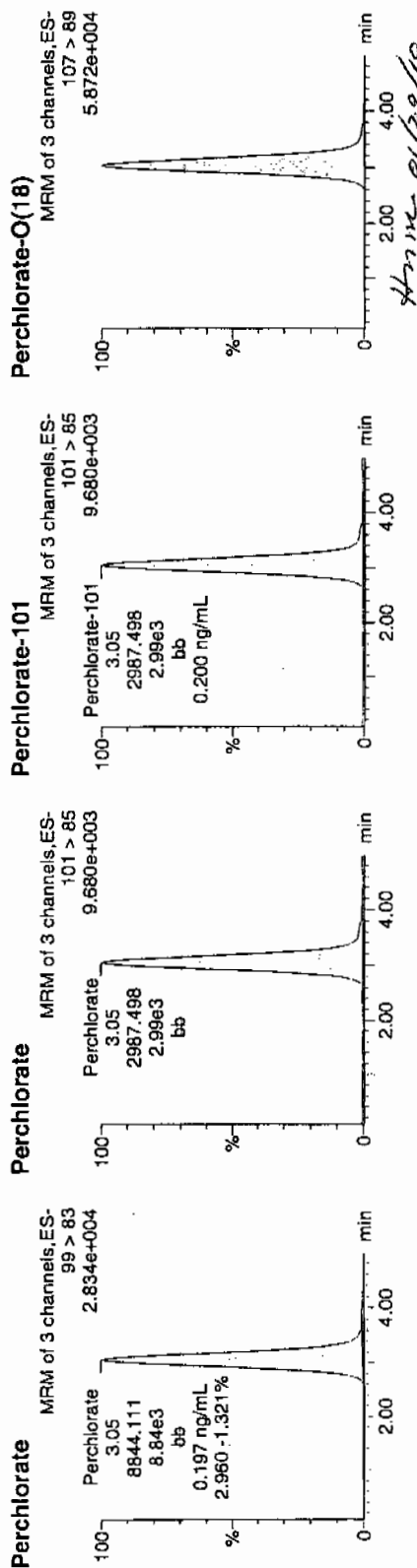
Time: 00:52:48

ID: 1202024388

Vial: 2:2,A

01-28-10

14001945223 / L22 / MS011



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202024388	Perchlorate	99 > 83	3.05	8844.111	8844.111	bb			0.1965	98.27	-1.73	2079.9...	2.96
1202024388	Perchlorate-101	101 > 85	3.05	2987.498	2987.498	bb			0.1996	99.78	-0.22	1318.9...	
1202024388	Perchlorate-Q(18)	107 > 89	3.04	18043.875	18043.875	bb			0.4813	96.25	-3.75	5532.5...	

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 10-1303**

Sample Analysis

Sample ID	Client ID
245136001	RE15-10-7194
245136002	RE15-10-7186
245136003	RE15-10-7191
245136004	RE15-10-7195
245136005	RE15-10-7196
245136006	RE15-10-7197
245136007	RE15-10-7193
245136008	RE15-10-7189
245136009	RE15-10-7187
245136010	RE15-10-7188
245136011	RE15-10-7190
245136012	RE15-10-7192
245136013	RE15-10-7219
1202021571	Method Blank (MB) ICP
1202021576	Laboratory Control Sample (LCS)
1202021573	245136001(RE15-10-7194L) Serial Dilution (SD)
1202021572	245136001(RE15-10-7194D) Sample Duplicate (DUP)
1202021574	245136001(RE15-10-7194S) Matrix Spike (MS)
1202021575	245136001(RE15-10-7194SD) Matrix Spike Duplicate (MSD)
1202021577	Method Blank (MB) ICP-MS
1202021582	Laboratory Control Sample (LCS)
1202021579	245136001(RE15-10-7194L) Serial Dilution (SD)
1202021578	245136001(RE15-10-7194D) Sample Duplicate (DUP)
1202021580	245136001(RE15-10-7194S) Matrix Spike (MS)
1202021581	245136001(RE15-10-7194SD) Matrix Spike Duplicate (MSD)
1202024863	Method Blank (MB) CVAA
1202024864	Laboratory Control Sample (LCS)
1202024867	245136001(RE15-10-7194L) Serial Dilution (SD)
1202024865	245136001(RE15-10-7194D) Sample Duplicate (DUP)

1202024866	245136001(RE15-10-7194S) Matrix Spike (MS)
1202024868	245136001(RE15-10-7194SD) Matrix Spike Duplicate (MSD)

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

Method/Analysis Information

Analytical Batch:	944111, 944114 and 945445
Prep Batch :	944110, 944112 and 945443
Standard Operating Procedures:	GL-MA-E-013 REV# 20, GL-MA-E-009 REV# 19, GL-MA-E-014 REV# 21 and GL-MA-E-010 REV# 23
Analytical Method:	SW846 3050B/6010B, SW846 3050B/6020 and SW846 7471A
Prep Method :	SW846 3050B and SW846 7471A Prep

Preparation/Analytical Method Verification

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

System Configuration

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

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

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

Calibration Information

Instrument Calibration

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

CRDL Requirements

All CRDL standard(s) met the referenced advisory control limits with the exception of antimony in the initial calibration. All other standard ran during the analysis was not required by the method being reported.

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: 245136001 (RE15-10-7194)-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 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, potassium and uranium 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 uranium 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 were diluted the standard 2x for solids on the ICPMS. The sample 245136010 for CVAA required dilution in order to bring over range concentrations within the linear calibration range of the instrument.

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 790105 and 791166. 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: Timothy A. Elmore Date: 2.16.10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136001

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7194

LEVEL: Low

DATE RECEIVED 20-JAN-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	6410000	ug/Kg		8130	23900	23900	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-36-0	Antimony	1200	ug/Kg	U	395	1200	1200	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-38-2	Arsenic	1.87	mg/kg		0.246	1.23	1.23	2	MS	RMJ	02/14/10 06:24	100213-2	944114
7440-39-3	Barium	91100	ug/Kg	N	120	598	598	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-41-7	Beryllium	0.781	mg/kg		0.0246	0.123	0.123	2	MS	RMJ	02/14/10 06:24	100213-2	944114
7440-43-9	Cadmium	598	ug/Kg	U	120	598	598	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-70-2	Calcium	1450000	ug/Kg		9570	29900	29900	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-47-3	Chromium	8920	ug/Kg		179	598	598	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-48-4	Cobalt	3260	ug/Kg		179	598	598	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-50-8	Copper	5360	ug/Kg		359	1200	1200	1	P	HSC	02/03/10 21:28	020310-1	944111
7439-89-6	Iron	10700000	ug/Kg		9570	29900	29900	1	P	HSC	02/03/10 21:28	020310-1	944111
7439-92-1	Lead	11300	ug/Kg		299	1200	1200	1	P	HSC	02/03/10 21:28	020310-1	944111
7439-95-4	Magnesium	1100000	ug/Kg	N	10200	35900	35900	1	P	HSC	02/03/10 21:28	020310-1	944111
7439-96-5	Manganese	262000	ug/Kg		239	1200	1200	1	P	HSC	02/03/10 21:28	020310-1	944111
7439-97-6	Mercury	14.8	ug/kg		4.39	12.9	12.9	1	AV	JXL1	02/04/10 10:40	020410S1-4	945445
7440-02-0	Nickel	6.35	mg/kg		0.123	0.491	0.491	2	MS	RMJ	02/14/10 06:24	100213-2	944114
7440-09-7	Potassium	1100000	ug/Kg	N	7650	29900	29900	1	P	HSC	02/03/10 21:28	020310-1	944111
7782-49-2	Selenium	1.23	mg/kg	U	0.614	1.23	1.23	2	MS	RMJ	02/14/10 06:24	100213-2	944114
7440-22-4	Silver	574	ug/Kg	J	120	598	598	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-23-5	Sodium	75600	ug/Kg		8370	29900	29900	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-28-0	Thallium	0.183	mg/kg	J	0.0737	0.246	0.246	2	MS	RMJ	02/14/10 06:24	100213-2	944114
7440-61-1	Uranium	6.67	mg/kg	*N	0.0162	0.0491	0.0491	2	MS	RMJ	02/14/10 06:24	100213-2	944114
7440-62-2	Vanadium	18300	ug/Kg		120	598	598	1	P	HSC	02/03/10 21:28	020310-1	944111
7440-66-6	Zinc	26100	ug/Kg		395	1200	1200	1	P	HSC	02/03/10 21:28	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol.	Units	Final wt/vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.527	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.513	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.586	g	30	mL	02/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136002

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7186

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 81

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3840000	ug/Kg		7680	22600	22600	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-36-0	Antimony	1130	ug/Kg	U	373	1130	1130	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-38-2	Arsenic	1.59	mg/kg		0.23	1.15	1.15	2	MS	RMJ	02/14/10 06:53	100213-2	944114
7440-39-3	Barium	49100	ug/Kg	N	113	564	564	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-41-7	Beryllium	0.669	mg/kg		0.023	0.115	0.115	2	MS	RMJ	02/14/10 06:53	100213-2	944114
7440-43-9	Cadmium	564	ug/Kg	U	113	564	564	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-70-2	Calcium	839000	ug/Kg		9030	28200	28200	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-47-3	Chromium	4450	ug/Kg		169	564	564	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-48-4	Cobalt	2410	ug/Kg		169	564	564	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-50-8	Copper	3710	ug/Kg		339	1130	1130	1	P	HSC	02/03/10 22:04	020310-1	944111
7439-89-6	Iron	7860000	ug/Kg		9030	28200	28200	1	P	HSC	02/03/10 22:04	020310-1	944111
7439-92-1	Lead	8890	ug/Kg		282	1130	1130	1	P	HSC	02/03/10 22:04	020310-1	944111
7439-95-4	Magnesium	829000	ug/Kg	N	9600	33900	33900	1	P	HSC	02/03/10 22:04	020310-1	944111
7439-96-5	Manganese	208000	ug/Kg		226	1130	1130	1	P	HSC	02/03/10 22:04	020310-1	944111
7439-97-6	Mercury	24.1	ug/kg		4.93	14.5	14.5	1	AV	JXLJ	02/04/10 10:49	020410S1-4	945445
7440-02-0	Nickel	5.22	mg/kg		0.115	0.46	0.46	2	MS	RMJ	02/14/10 06:53	100213-2	944114
7440-09-7	Potassium	699000	ug/Kg	N	7220	28200	28200	1	P	HSC	02/03/10 22:04	020310-1	944111
7782-49-2	Selenium	1.15	mg/kg	U	0.575	1.15	1.15	2	MS	RMJ	02/14/10 06:53	100213-2	944114
7440-22-4	Silver	638	ug/Kg		113	564	564	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-23-5	Sodium	57100	ug/Kg		7900	28200	28200	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-28-0	Thallium	0.173	mg/kg	J	0.069	0.23	0.23	2	MS	RMJ	02/14/10 06:53	100213-2	944114
7440-61-1	Uranium	1.33	mg/kg	*N	0.0152	0.046	0.046	2	MS	RMJ	02/14/10 06:53	100213-2	944114
7440-62-2	Vanadium	11300	ug/Kg		113	564	564	1	P	HSC	02/03/10 22:04	020310-1	944111
7440-66-6	Zinc	22400	ug/Kg		373	1130	1130	1	P	HSC	02/03/10 22:04	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.544	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.534	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.508	g	30	mL	02/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136003

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7191

LEVEL: Low

DATE RECEIVED 20-JAN-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	8220000	ug/Kg		7600	22300	22300	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-36-0	Antimony	1120	ug/Kg	U	369	1120	1120	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-38-2	Arsenic	1.93	mg/kg		0.229	1.15	1.15	2	MS	RMJ	02/14/10 06:59	100213-2	944114
7440-39-3	Barium	55400	ug/Kg	N	112	559	559	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-41-7	Beryllium	1.33	mg/kg		0.0229	0.115	0.115	2	MS	RMJ	02/14/10 06:59	100213-2	944114
7440-43-9	Cadmium	559	ug/Kg	U	112	559	559	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-70-2	Calcium	2030000	ug/Kg		8940	27900	27900	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-47-3	Chromium	7810	ug/Kg		168	559	559	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-48-4	Cobalt	1880	ug/Kg		168	559	559	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-50-8	Copper	6220	ug/Kg		335	1120	1120	1	P	HSC	02/03/10 22:11	020310-1	944111
7439-89-6	Iron	11800000	ug/Kg		8940	27900	27900	1	P	HSC	02/03/10 22:11	020310-1	944111
7439-92-1	Lead	7350	ug/Kg		279	1120	1120	1	P	HSC	02/03/10 22:11	020310-1	944111
7439-95-4	Magnesium	1540000	ug/Kg	N	9500	33500	33500	1	P	HSC	02/03/10 22:11	020310-1	944111
7439-96-5	Manganese	180000	ug/Kg		223	1120	1120	1	P	HSC	02/03/10 22:11	020310-1	944111
7439-97-6	Mercury	17.8	ug/kg		4.52	13.3	13.3	1	AV	JXL1	02/04/10 10:51	020410S1-4	945445
7440-02-0	Nickel	6.93	mg/kg		0.115	0.458	0.458	2	MS	RMJ	02/14/10 06:59	100213-2	944114
7440-09-7	Potassium	1220000	ug/Kg	N	7150	27900	27900	1	P	HSC	02/03/10 22:11	020310-1	944111
7782-49-2	Selenium	1.15	mg/kg	U	0.573	1.15	1.15	2	MS	RMJ	02/14/10 06:59	100213-2	944114
7440-22-4	Silver	431	ug/Kg	J	112	559	559	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-23-5	Sodium	65500	ug/Kg		7820	27900	27900	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-28-0	Thallium	0.155	mg/kg	J	0.0687	0.229	0.229	2	MS	RMJ	02/14/10 06:59	100213-2	944114
7440-61-1	Uranium	1.07	mg/kg	*N	0.0151	0.0458	0.0458	2	MS	RMJ	02/14/10 06:59	100213-2	944114
7440-62-2	Vanadium	13000	ug/Kg		112	559	559	1	P	HSC	02/03/10 22:11	020310-1	944111
7440-66-6	Zinc	40700	ug/Kg		369	1120	1120	1	P	HSC	02/03/10 22:11	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.524	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.511	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.528	g	30	mL	02/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136004

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7195

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 90

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	8820000	ug/Kg		7260	21300	21300	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-36-0	Antimony	1070	ug/Kg	U	352	1070	1070	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-38-2	Arsenic	2.44	mg/kg		0.213	1.06	1.06	2	MS	RMJ	02/14/10 07:05	100213-2	944114
7440-39-3	Barium	86200	ug/Kg	N	107	533	533	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-41-7	Beryllium	1.17	mg/kg		0.0213	0.106	0.106	2	MS	RMJ	02/14/10 07:05	100213-2	944114
7440-43-9	Cadmium	533	ug/Kg	U	107	533	533	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-70-2	Calcium	1800000	ug/Kg		8540	26700	26700	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-47-3	Chromium	14000	ug/Kg		160	533	533	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-48-4	Cobalt	3510	ug/Kg		160	533	533	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-50-8	Copper	5560	ug/Kg		320	1070	1070	1	P	HSC	02/03/10 22:32	020310-1	944111
7439-89-6	Iron	15100000	ug/Kg		8540	26700	26700	1	P	HSC	02/03/10 22:32	020310-1	944111
7439-92-1	Lead	8260	ug/Kg		267	1070	1070	1	P	HSC	02/03/10 22:32	020310-1	944111
7439-95-4	Magnesium	1600000	ug/Kg	N	9070	32000	32000	1	P	HSC	02/03/10 22:32	020310-1	944111
7439-96-5	Manganese	261000	ug/Kg		213	1070	1070	1	P	HSC	02/03/10 22:32	020310-1	944111
7439-97-6	Mercury	13.5	ug/kg		4.21	12.4	12.4	1	AV	JXL1	02/04/10 10:53	020410S1-4	945445
7440-02-0	Nickel	7.67	mg/kg		0.106	0.426	0.426	2	MS	RMJ	02/14/10 07:05	100213-2	944114
7440-09-7	Potassium	1500000	ug/Kg	N	6830	26700	26700	1	P	HSC	02/03/10 22:32	020310-1	944111
7782-49-2	Selenium	1.06	mg/kg	U	0.532	1.06	1.06	2	MS	RMJ	02/14/10 07:05	100213-2	944114
7440-22-4	Silver	558	ug/Kg		107	533	533	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-23-5	Sodium	121000	ug/Kg		7470	26700	26700	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-28-0	Thallium	0.199	mg/kg	J	0.0639	0.213	0.213	2	MS	RMJ	02/14/10 07:05	100213-2	944114
7440-61-1	Uranium	1.05	mg/kg	*N	0.0141	0.0426	0.0426	2	MS	RMJ	02/14/10 07:05	100213-2	944114
7440-62-2	Vanadium	25000	ug/Kg		107	533	533	1	P	HSC	02/03/10 22:32	020310-1	944111
7440-66-6	Zinc	36400	ug/Kg		352	1070	1070	1	P	HSC	02/03/10 22:32	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.521	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.522	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.539	g	30	mL	02/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136005

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7196

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 76

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6100000	ug/Kg		8130	23900	23900	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-36-0	Antimony	1200	ug/Kg	U	394	1200	1200	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-38-2	Arsenic	1.67	mg/kg		0.236	1.18	1.18	2	MS	RMJ	02/14/10 07:23	100213-2	944114
7440-39-3	Barium	116000	ug/Kg	N	120	598	598	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-41-7	Beryllium	0.606	mg/kg		0.0236	0.118	0.118	2	MS	RMJ	02/14/10 07:23	100213-2	944114
7440-43-9	Cadmium	598	ug/Kg	U	120	598	598	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-70-2	Calcium	1440000	ug/Kg		9560	29900	29900	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-47-3	Chromium	9300	ug/Kg		179	598	598	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-48-4	Cobalt	6830	ug/Kg		179	598	598	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-50-8	Copper	5540	ug/Kg		359	1200	1200	1	P	HSC	02/03/10 22:39	020310-1	944111
7439-89-6	Iron	11800000	ug/Kg		9560	29900	29900	1	P	HSC	02/03/10 22:39	020310-1	944111
7439-92-1	Lead	15700	ug/Kg		299	1200	1200	1	P	HSC	02/03/10 22:39	020310-1	944111
7439-95-4	Magnesium	1090000	ug/Kg	N	10200	35900	35900	1	P	HSC	02/03/10 22:39	020310-1	944111
7439-96-5	Manganese	610000	ug/Kg		239	1200	1200	1	P	HSC	02/03/10 22:39	020310-1	944111
7439-97-6	Mercury	28.8	ug/kg		5.12	15.1	15.1	1	AV	JXL1	02/04/10 10:55	020410S1-4	945445
7440-02-0	Nickel	3.81	mg/kg		0.118	0.471	0.471	2	MS	RMJ	02/14/10 07:23	100213-2	944114
7440-09-7	Potassium	1070000	ug/Kg	N	7650	29900	29900	1	P	HSC	02/03/10 22:39	020310-1	944111
7782-49-2	Selenium	1.18	mg/kg	U	0.589	1.18	1.18	2	MS	RMJ	02/14/10 07:23	100213-2	944114
7440-22-4	Silver	550	ug/Kg	J	120	598	598	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-23-5	Sodium	79500	ug/Kg		8370	29900	29900	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-28-0	Thallium	0.119	mg/kg	J	0.0707	0.236	0.236	2	MS	RMJ	02/14/10 07:23	100213-2	944114
7440-61-1	Uranium	3.42	mg/kg	*N	0.0156	0.0471	0.0471	2	MS	RMJ	02/16/10 05:47	100215-3	944114
7440-62-2	Vanadium	20500	ug/Kg		120	598	598	1	P	HSC	02/03/10 22:39	020310-1	944111
7440-66-6	Zinc	32900	ug/Kg		394	1200	1200	1	P	HSC	02/03/10 22:39	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.548	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.556	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.522	g	30	mL	02/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136006

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7197

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 86

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M+	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4240000	ug/Kg		7900	23200	23200	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-36-0	Antimony	939	ug/Kg	J	383	1160	1160	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-38-2	Arsenic	1.45	mg/kg		0.224	1.12	1.12	2	MS	RMJ	02/14/10 07:29	100213-2	944114
7440-39-3	Barium	46500	ug/Kg	N	116	581	581	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-41-7	Beryllium	0.770	mg/kg		0.0224	0.112	0.112	2	MS	RMJ	02/14/10 07:29	100213-2	944114
7440-43-9	Cadmium	581	ug/Kg	U	116	581	581	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-70-2	Calcium	1050000	ug/Kg		9290	29000	29000	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-47-3	Chromium	43300	ug/Kg		174	581	581	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-48-4	Cobalt	1790	ug/Kg		174	581	581	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-50-8	Copper	3720	ug/Kg		349	1160	1160	1	P	HSC	02/03/10 22:46	020310-1	944111
7439-89-6	Iron	9940000	ug/Kg		9290	29000	29000	1	P	HSC	02/03/10 22:46	020310-1	944111
7439-92-1	Lead	6650	ug/Kg		290	1160	1160	1	P	HSC	02/03/10 22:46	020310-1	944111
7439-95-4	Magnesium	697000	ug/Kg	N	9880	34900	34900	1	P	HSC	02/03/10 22:46	020310-1	944111
7439-96-5	Manganese	270000	ug/Kg		232	1160	1160	1	P	HSC	02/03/10 22:46	020310-1	944111
7439-97-6	Mercury	9.04	ug/kg	J	4.36	12.8	12.8	1	AV	JXL1	02/04/10 10:57	020410S1-4	945445
7440-02-0	Nickel	5.62	mg/kg		0.112	0.449	0.449	2	MS	RMJ	02/14/10 07:29	100213-2	944114
7440-09-7	Potassium	625000	ug/Kg	N	7440	29000	29000	1	P	HSC	02/03/10 22:46	020310-1	944111
7782-49-2	Selenium	1.12	mg/kg	U	0.561	1.12	1.12	2	MS	RMJ	02/14/10 07:29	100213-2	944114
7440-22-4	Silver	514	ug/Kg	J	116	581	581	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-23-5	Sodium	133000	ug/Kg		8130	29000	29000	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-28-0	Thallium	0.115	mg/kg	J	0.0673	0.224	0.224	2	MS	RMJ	02/14/10 07:29	100213-2	944114
7440-61-1	Uranium	0.817	mg/kg	*N	0.0148	0.0449	0.0449	2	MS	RMJ	02/16/10 05:50	100215-3	944114
7440-62-2	Vanadium	10800	ug/Kg		116	581	581	1	P	HSC	02/03/10 22:46	020310-1	944111
7440-66-6	Zinc	34400	ug/Kg		383	1160	1160	1	P	HSC	02/03/10 22:46	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.503	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.521	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.547	g	30	mL	02/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136007

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7193

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 81

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	6280000	ug/Kg		8030	23600	23600	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-36-0	Antimony	608	ug/Kg	J	389	1180	1180	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-38-2	Arsenic	3.18	mg/kg		0.236	1.18	1.18	2	MS	RMJ	02/14/10 07:34	100213-2	944114
7440-39-3	Barium	87800	ug/Kg	N	118	590	590	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-41-7	Beryllium	1.08	mg/kg		0.0236	0.118	0.118	2	MS	RMJ	02/14/10 07:34	100213-2	944114
7440-43-9	Cadmium	590	ug/Kg	U	118	590	590	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-70-2	Calcium	1380000	ug/Kg		9440	29500	29500	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-47-3	Chromium	27900	ug/Kg		177	590	590	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-48-4	Cobalt	4180	ug/Kg		177	590	590	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-50-8	Copper	5840	ug/Kg		354	1180	1180	1	P	HSC	02/03/10 22:53	020310-1	944111
7439-89-6	Iron	13700000	ug/Kg		9440	29500	29500	1	P	HSC	02/03/10 22:53	020310-1	944111
7439-92-1	Lead	13000	ug/Kg		295	1180	1180	1	P	HSC	02/03/10 22:53	020310-1	944111
7439-95-4	Magnesium	1150000	ug/Kg	N	10000	35400	35400	1	P	HSC	02/03/10 22:53	020310-1	944111
7439-96-5	Manganese	343000	ug/Kg		236	1180	1180	1	P	HSC	02/03/10 22:53	020310-1	944111
7439-97-6	Mercury	14.9	ug/kg		4.69	13.8	13.8	1	AV	JXL	02/04/10 11:03	020410S1-4	945445
7440-02-0	Nickel	8.37	mg/kg		0.118	0.472	0.472	2	MS	RMJ	02/14/10 07:34	100213-2	944114
7440-09-7	Potassium	1020000	ug/Kg	N	7550	29500	29500	1	P	HSC	02/03/10 22:53	020310-1	944111
7782-49-2	Selenium	1.18	mg/kg	U	0.59	1.18	1.18	2	MS	RMJ	02/14/10 07:34	100213-2	944114
7440-22-4	Silver	1830	ug/Kg		118	590	590	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-23-5	Sodium	86800	ug/Kg		8260	29500	29500	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-28-0	Thallium	0.187	mg/kg	J	0.0708	0.236	0.236	2	MS	RMJ	02/14/10 07:34	100213-2	944114
7440-61-1	Uranium	2.67	mg/kg	*N	0.0156	0.0472	0.0472	2	MS	RMJ	02/16/10 05:53	100215-3	944114
7440-62-2	Vanadium	22300	ug/Kg		118	590	590	1	P	HSC	02/03/10 22:53	020310-1	944111
7440-66-6	Zinc	40400	ug/Kg		389	1180	1180	1	P	HSC	02/03/10 22:53	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.523	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.523	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.537	g	30	mL	02/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136008

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7189

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 90.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	11100000	ug/Kg		7430	21900	21900	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-36-0	Antimony	1090	ug/Kg	U	361	1090	1090	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-38-2	Arsenic	2.6	mg/kg		0.215	1.08	1.08	2	MS	RMJ	02/14/10 07:40	100213-2	944114
7440-39-3	Barium	130000	ug/Kg	N	109	546	546	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-41-7	Beryllium	1.26	mg/kg		0.0215	0.108	0.108	2	MS	RMJ	02/14/10 07:40	100213-2	944114
7440-43-9	Cadmium	546	ug/Kg	U	109	546	546	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-70-2	Calcium	2140000	ug/Kg		8740	27300	27300	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-47-3	Chromium	11600	ug/Kg		164	546	546	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-48-4	Cobalt	4310	ug/Kg		164	546	546	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-50-8	Copper	6850	ug/Kg		328	1090	1090	1	P	HSC	02/03/10 23:00	020310-1	944111
7439-89-6	Iron	14600000	ug/Kg		8740	27300	27300	1	P	HSC	02/03/10 23:00	020310-1	944111
7439-92-1	Lead	12200	ug/Kg		273	1090	1090	1	P	HSC	02/03/10 23:00	020310-1	944111
7439-95-4	Magnesium	1890000	ug/Kg	N	9290	32800	32800	1	P	HSC	02/03/10 23:00	020310-1	944111
7439-96-5	Manganese	257000	ug/Kg		219	1090	1090	1	P	HSC	02/03/10 23:00	020310-1	944111
7439-97-6	Mercury	37.6	ug/kg		4.27	12.6	12.6	1	AV	JXLI	02/04/10 11:05	020410S1-4	945445
7440-02-0	Nickel	8.18	mg/kg		0.108	0.43	0.43	2	MS	RMJ	02/14/10 07:40	100213-2	944114
7440-09-7	Potassium	1760000	ug/Kg	N	6990	27300	27300	1	P	HSC	02/03/10 23:00	020310-1	944111
7782-49-2	Selenium	1.08	mg/kg	U	0.538	1.08	1.08	2	MS	RMJ	02/14/10 07:40	100213-2	944114
7440-22-4	Silver	499	ug/Kg	J	109	546	546	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-23-5	Sodium	179000	ug/Kg		7650	27300	27300	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-28-0	Thallium	0.221	mg/kg		0.0646	0.215	0.215	2	MS	RMJ	02/14/10 07:40	100213-2	944114
7440-61-1	Uranium	1.13	mg/kg	*N	0.0142	0.043	0.043	2	MS	RMJ	02/16/10 05:57	100215-3	944114
7440-62-2	Vanadium	25500	ug/Kg		109	546	546	1	P	HSC	02/03/10 23:00	020310-1	944111
7440-66-6	Zinc	34700	ug/Kg		361	1090	1090	1	P	HSC	02/03/10 23:00	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.504	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.512	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.526	g	30	mL	02/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136009

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7187

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 90.7

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9140000	ug/Kg		7380	21700	21700	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-36-0	Antimony	1090	ug/Kg	U	358	1090	1090	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-38-2	Arsenic	2.19	mg/kg		0.218	1.09	1.09	2	MS	RMJ	02/14/10 07:46	100213-2	944114
7440-39-3	Barium	118000	ug/Kg	N	109	543	543	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-41-7	Beryllium	0.983	mg/kg		0.0218	0.109	0.109	2	MS	RMJ	02/14/10 07:46	100213-2	944114
7440-43-9	Cadmium	543	ug/Kg	U	109	543	543	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-70-2	Calcium	2130000	ug/Kg		8690	27100	27100	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-47-3	Chromium	9460	ug/Kg		163	543	543	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-48-4	Cobalt	3640	ug/Kg		163	543	543	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-50-8	Copper	9020	ug/Kg		326	1090	1090	1	P	HSC	02/03/10 23:07	020310-1	944111
7439-89-6	Iron	10700000	ug/Kg		8690	27100	27100	1	P	HSC	02/03/10 23:07	020310-1	944111
7439-92-1	Lead	16600	ug/Kg		271	1090	1090	1	P	HSC	02/03/10 23:07	020310-1	944111
7439-95-4	Magnesium	1620000	ug/Kg	N	9230	32600	32600	1	P	HSC	02/03/10 23:07	020310-1	944111
7439-96-5	Manganese	263000	ug/Kg		217	1090	1090	1	P	HSC	02/03/10 23:07	020310-1	944111
7439-97-6	Mercury	30.7	ug/kg		4.21	12.4	12.4	1	AV	JXL1	02/04/10 11:07	020410S1-4	945445
7440-02-0	Nickel	7.84	mg/kg		0.109	0.437	0.437	2	MS	RMJ	02/14/10 07:46	100213-2	944114
7440-09-7	Potassium	1260000	ug/Kg	N	6950	27100	27100	1	P	HSC	02/03/10 23:07	020310-1	944111
7782-49-2	Selenium	1.09	mg/kg	U	0.546	1.09	1.09	2	MS	RMJ	02/14/10 07:46	100213-2	944114
7440-22-4	Silver	1080	ug/Kg		109	543	543	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-23-5	Sodium	110000	ug/Kg		7600	27100	27100	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-28-0	Thallium	0.225	mg/kg		0.0655	0.218	0.218	2	MS	RMJ	02/14/10 07:46	100213-2	944114
7440-61-1	Uranium	3.2	mg/kg	*N	0.0144	0.0437	0.0437	2	MS	RMJ	02/16/10 06:00	100215-3	944114
7440-62-2	Vanadium	18300	ug/Kg		109	543	543	1	P	HSC	02/03/10 23:07	020310-1	944111
7440-66-6	Zinc	31600	ug/Kg		358	1090	1090	1	P	HSC	02/03/10 23:07	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.508	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.505	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.535	g	30	mL	02/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136010

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7188

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 88

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	12500000	ug/Kg		7400	21800	21800	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-36-0	Antimony	1090	ug/Kg	U	359	1090	1090	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-38-2	Arsenic	2.81	mg/kg		0.22	1.1	1.1	2	MS	RMJ	02/14/10 07:52	100213-2	944114
7440-39-3	Barium	162000	ug/Kg	N	109	544	544	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-41-7	Beryllium	1.31	mg/kg		0.022	0.11	0.11	2	MS	RMJ	02/14/10 07:52	100213-2	944114
7440-43-9	Cadmium	544	ug/Kg	U	109	544	544	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-70-2	Calcium	2740000	ug/Kg		8700	27200	27200	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-47-3	Chromium	12500	ug/Kg		163	544	544	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-48-4	Cobalt	5210	ug/Kg		163	544	544	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-50-8	Copper	10200	ug/Kg		326	1090	1090	1	P	HSC	02/03/10 23:14	020310-1	944111
7439-89-6	Iron	15000000	ug/Kg		8700	27200	27200	1	P	HSC	02/03/10 23:14	020310-1	944111
7439-92-1	Lead	32400	ug/Kg		272	1090	1090	1	P	HSC	02/03/10 23:14	020310-1	944111
7439-95-4	Magnesium	2240000	ug/Kg	N	9240	32600	32600	1	P	HSC	02/03/10 23:14	020310-1	944111
7439-96-5	Manganese	353000	ug/Kg		218	1090	1090	1	P	HSC	02/03/10 23:14	020310-1	944111
7439-97-6	Mercury	692	ug/kg		9.21	27.1	27.1	2	AV	JXL1	02/04/10 14:45	020410S1-4	945445
7440-02-0	Nickel	9.67	mg/kg		0.11	0.441	0.441	2	MS	RMJ	02/14/10 07:52	100213-2	944114
7440-09-7	Potassium	1670000	ug/Kg	N	6960	27200	27200	1	P	HSC	02/03/10 23:14	020310-1	944111
7782-49-2	Selenium	1.1	mg/kg	U	0.551	1.1	1.1	2	MS	RMJ	02/14/10 07:52	100213-2	944114
7440-22-4	Silver	547	ug/Kg		109	544	544	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-23-5	Sodium	97800	ug/Kg		7610	27200	27200	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-28-0	Thallium	0.278	mg/kg		0.0661	0.22	0.22	2	MS	RMJ	02/14/10 07:52	100213-2	944114
7440-61-1	Uranium	4.11	mg/kg	*N	0.0145	0.0441	0.0441	2	MS	RMJ	02/16/10 06:03	100215-3	944114
7440-62-2	Vanadium	29500	ug/Kg		109	544	544	1	P	HSC	02/03/10 23:14	020310-1	944111
7440-66-6	Zinc	37200	ug/Kg		359	1090	1090	1	P	HSC	02/03/10 23:14	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.525	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.518	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.506	g	30	mL	02/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136011

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7190

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 72

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	9790000	ug/Kg		9050	26600	26600	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-36-0	Antimony	1330	ug/Kg	U	439	1330	1330	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-38-2	Arsenic	2.28	mg/kg		0.266	1.33	1.33	2	MS	RMJ	02/14/10 07:58	100213-2	944114
7440-39-3	Barium	149000	ug/Kg	N	133	666	666	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-41-7	Beryllium	1.14	mg/kg		0.0266	0.133	0.133	2	MS	RMJ	02/14/10 07:58	100213-2	944114
7440-43-9	Cadmium	666	ug/Kg	U	133	666	666	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-70-2	Calcium	3580000	ug/Kg		10700	33300	33300	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-47-3	Chromium	22200	ug/Kg		200	666	666	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-48-4	Cobalt	4820	ug/Kg		200	666	666	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-50-8	Copper	10000	ug/Kg		399	1330	1330	1	P	HSC	02/03/10 23:21	020310-1	944111
7439-89-6	Iron	12200000	ug/Kg		10700	33300	33300	1	P	HSC	02/03/10 23:21	020310-1	944111
7439-92-1	Lead	15100	ug/Kg		333	1330	1330	1	P	HSC	02/03/10 23:21	020310-1	944111
7439-95-4	Magnesium	1800000	ug/Kg	N	11300	39900	39900	1	P	HSC	02/03/10 23:21	020310-1	944111
7439-96-5	Manganese	328000	ug/Kg		266	1330	1330	1	P	HSC	02/03/10 23:21	020310-1	944111
7439-97-6	Mercury	29.7	ug/kg		5.42	15.9	15.9	1	AV	JXL1	02/04/10 11:11	020410S1-4	945445
7440-02-0	Nickel	9.21	mg/kg		0.133	0.533	0.533	2	MS	RMJ	02/14/10 07:58	100213-2	944114
7440-09-7	Potassium	1560000	ug/Kg	N	8520	33300	33300	1	P	HSC	02/03/10 23:21	020310-1	944111
7782-49-2	Selenium	1.33	mg/kg	U	0.666	1.33	1.33	2	MS	RMJ	02/14/10 07:58	100213-2	944114
7440-22-4	Silver	340	ug/Kg	J	133	666	666	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-23-5	Sodium	77800	ug/Kg		9320	33300	33300	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-28-0	Thallium	0.190	mg/kg	J	0.0799	0.266	0.266	2	MS	RMJ	02/14/10 07:58	100213-2	944114
7440-61-1	Uranium	4.85	mg/kg	*N	0.0176	0.0533	0.0533	2	MS	RMJ	02/16/10 06:06	100215-3	944114
7440-62-2	Vanadium	20000	ug/Kg		133	666	666	1	P	HSC	02/03/10 23:21	020310-1	944111
7440-66-6	Zinc	34600	ug/Kg		439	1330	1330	1	P	HSC	02/03/10 23:21	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol.	Units	Final wt/vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.524	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.524	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.525	g	30	mL	02/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136012

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7192

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: SOIL

%SOLIDS: 66

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	8370000	ug/Kg		9740	28600	28600	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-36-0	Antimony	1430	ug/Kg	U	473	1430	1430	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-38-2	Arsenic	2.92	mg/kg		0.301	1.5	1.5	2	MS	RMJ	02/14/10 08:04	100213-2	944114
7440-39-3	Barium	116000	ug/Kg	N	143	716	716	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-41-7	Beryllium	1.19	mg/kg		0.0301	0.15	0.15	2	MS	RMJ	02/14/10 08:04	100213-2	944114
7440-43-9	Cadmium	716	ug/Kg	U	143	716	716	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-70-2	Calcium	1890000	ug/Kg		11500	35800	35800	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-47-3	Chromium	9660	ug/Kg		215	716	716	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-48-4	Cobalt	3650	ug/Kg		215	716	716	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-50-8	Copper	7300	ug/Kg		430	1430	1430	1	P	HSC	02/03/10 23:28	020310-1	944111
7439-89-6	Iron	8920000	ug/Kg		11500	35800	35800	1	P	HSC	02/03/10 23:28	020310-1	944111
7439-92-1	Lead	16000	ug/Kg		358	1430	1430	1	P	HSC	02/03/10 23:28	020310-1	944111
7439-95-4	Magnesium	1370000	ug/Kg	N	12200	43000	43000	1	P	HSC	02/03/10 23:28	020310-1	944111
7439-96-5	Manganese	267000	ug/Kg		286	1430	1430	1	P	HSC	02/03/10 23:28	020310-1	944111
7439-97-6	Mercury	27.6	ug/kg		6.21	18.3	18.3	1	AV	JXLJ	02/04/10 11:13	020410S1-4	945445
7440-02-0	Nickel	8.85	mg/kg		0.15	0.601	0.601	2	MS	RMJ	02/14/10 08:04	100213-2	944114
7440-09-7	Potassium	1300000	ug/Kg	N	9170	35800	35800	1	P	HSC	02/03/10 23:28	020310-1	944111
7782-49-2	Selenium	1.5	mg/kg	U	0.751	1.5	1.5	2	MS	RMJ	02/14/10 08:04	100213-2	944114
7440-22-4	Silver	1680	ug/Kg		143	716	716	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-23-5	Sodium	86700	ug/Kg		10000	35800	35800	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-28-0	Thallium	0.245	mg/kg	J	0.0902	0.301	0.301	2	MS	RMJ	02/14/10 08:04	100213-2	944114
7440-61-1	Uranium	5.93	mg/kg	*N	0.0198	0.0601	0.0601	2	MS	RMJ	02/16/10 06:09	100215-3	944114
7440-62-2	Vanadium	16700	ug/Kg		143	716	716	1	P	HSC	02/03/10 23:28	020310-1	944111
7440-66-6	Zinc	21200	ug/Kg		473	1430	1430	1	P	HSC	02/03/10 23:28	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.532	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.507	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.501	g	30	mL	02/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245136013

BASIS: Dry Weight

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7219

LEVEL: Low

DATE RECEIVED 20-JAN-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	10400000	ug/Kg		8150	24000	24000	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-36-0	Antimony	1200	ug/Kg	U	396	1200	1200	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-38-2	Arsenic	2.32	mg/kg		0.244	1.22	1.22	2	MS	RMJ	02/14/10 08:10	100213-2	944114
7440-39-3	Barium	159000	ug/Kg	N	120	600	600	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-41-7	Beryllium	1.1	mg/kg		0.0244	0.122	0.122	2	MS	RMJ	02/14/10 08:10	100213-2	944114
7440-43-9	Cadmium	600	ug/Kg	U	120	600	600	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-70-2	Calcium	2990000	ug/Kg		9590	30000	30000	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-47-3	Chromium	10400	ug/Kg		180	600	600	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-48-4	Cobalt	4120	ug/Kg		180	600	600	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-50-8	Copper	9510	ug/Kg		360	1200	1200	1	P	HSC	02/03/10 23:35	020310-1	944111
7439-89-6	Iron	11800000	ug/Kg		9590	30000	30000	1	P	HSC	02/03/10 23:35	020310-1	944111
7439-92-1	Lead	19200	ug/Kg		300	1200	1200	1	P	HSC	02/03/10 23:35	020310-1	944111
7439-95-4	Magnesium	1790000	ug/Kg	N	10200	36000	36000	1	P	HSC	02/03/10 23:35	020310-1	944111
7439-96-5	Manganese	312000	ug/Kg		240	1200	1200	1	P	HSC	02/03/10 23:35	020310-1	944111
7439-97-6	Mercury	38	ug/kg		4.47	13.1	13.1	1	AV	JXL1	02/04/10 11:14	020410S1-4	945445
7440-02-0	Nickel	7.84	mg/kg		0.122	0.489	0.489	2	MS	RMJ	02/14/10 08:10	100213-2	944114
7440-09-7	Potassium	1810000	ug/Kg	N	7670	30000	30000	1	P	HSC	02/03/10 23:35	020310-1	944111
7782-49-2	Selenium	1.22	mg/kg	U	0.611	1.22	1.22	2	MS	RMJ	02/14/10 08:10	100213-2	944114
7440-22-4	Silver	1250	ug/Kg		120	600	600	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-23-5	Sodium	74400	ug/Kg		8390	30000	30000	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-28-0	Thallium	0.205	mg/kg	J	0.0733	0.244	0.244	2	MS	RMJ	02/14/10 08:10	100213-2	944114
7440-61-1	Uranium	6.7	mg/kg	*N	0.0161	0.0489	0.0489	2	MS	RMJ	02/16/10 06:12	100215-3	944114
7440-62-2	Vanadium	20900	ug/Kg		120	600	600	1	P	HSC	02/03/10 23:35	020310-1	944111
7440-66-6	Zinc	26700	ug/Kg		396	1200	1200	1	P	HSC	02/03/10 23:35	020310-1	944111

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944111	944110	SW846 3050B	0.543	g	50	mL	01/27/10	AXG2
944114	944112	SW846 3050B	0.533	g	50	mL	01/28/10	FGA
945445	945443	SW846 7471A Prep	0.595	g	30	mL	02/03/10	TXB3

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Aluminum	5270	ug/L	5000	ug/L	105.4	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Antimony	505	ug/L	500	ug/L	101	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Barium	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Cadmium	484	ug/L	500	ug/L	96.7	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Calcium	5090	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Chromium	475	ug/L	500	ug/L	95	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Cobalt	488	ug/L	500	ug/L	97.7	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Copper	492	ug/L	500	ug/L	98.5	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Iron	5050	ug/L	5000	ug/L	100.9	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Lead	488	ug/L	500	ug/L	97.5	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Magnesium	5340	ug/L	5000	ug/L	106.9	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Manganese	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Potassium	2470	ug/L	2500	ug/L	98.8	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Silver	251	ug/L	250	ug/L	100.2	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Sodium	2420	ug/L	2500	ug/L	96.6	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Vanadium	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Zinc	493	ug/L	500	ug/L	98.6	90.0 – 110.0	P	03-FEB-10 09:52	020310-1
	Mercury	5.13	ug/L	5	ug/L	102.6	90.0 – 110.0	AV	04-FEB-10 08:58	020410S1-4
	Arsenic	46.6	ug/L	50	ug/L	93.2	90.0 – 110.0	MS	14-FEB-10 05:19	100213-2
	Beryllium	49.6	ug/L	50	ug/L	99.3	90.0 – 110.0	MS	14-FEB-10 05:19	100213-2
	Nickel	50.6	ug/L	50	ug/L	101.2	90.0 – 110.0	MS	14-FEB-10 05:19	100213-2
	Selenium	48.6	ug/L	50	ug/L	97.2	90.0 – 110.0	MS	14-FEB-10 05:19	100213-2
	Thallium	48.2	ug/L	50	ug/L	96.3	90.0 – 110.0	MS	14-FEB-10 05:19	100213-2
	Uranium	53.5	ug/L	50	ug/L	107	90.0 – 110.0	MS	14-FEB-10 05:19	100213-2
	Uranium	53.3	ug/L	50	ug/L	106.5	90.0 – 110.0	MS	16-FEB-10 05:26	100215-3
CCV01										
	Aluminum	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Antimony	502	ug/L	500	ug/L	100.3	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Barium	480	ug/L	500	ug/L	96.1	90.0 – 110.0	P	03-FEB-10 10:40	020310-1
	Cadmium	467	ug/L	500	ug/L	93.4	90.0 – 110.0	P	03-FEB-10 10:40	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Calcium	5120	ug/L	5000	ug/L	102.5	90.0 - 110.0	P	03-FEB-10 10:40	020310-1
	Chromium	481	ug/L	500	ug/L	96.1	90.0 - 110.0	P	03-FEB-10 10:40	020310-1
	Cobalt	473	ug/L	500	ug/L	94.7	90.0 - 110.0	P	03-FEB-10 10:40	020310-1
	Copper	477	ug/L	500	ug/L	95.4	90.0 - 110.0	P	03-FEB-10 10:40	020310-1
	Iron	5180	ug/L	5000	ug/L	103.7	90.0 - 110.0	P	03-FEB-10 10:40	020310-1
	Lead	482	ug/L	500	ug/L	96.5	90.0 - 110.0	P	03-FEB-10 10:40	020310-1
	Magnesium	5120	ug/L	5000	ug/L	102.5	90.0 - 110.0	P	03-FEB-10 10:40	020310-1
	Manganese	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	03-FEB-10 10:40	020310-1
	Potassium	5090	ug/L	5000	ug/L	101.9	90.0 - 110.0	P	03-FEB-10 10:40	020310-1
	Silver	482	ug/L	500	ug/L	96.4	90.0 - 110.0	P	03-FEB-10 10:40	020310-1
	Sodium	10200	ug/L	10000	ug/L	101.8	90.0 - 110.0	P	03-FEB-10 10:40	020310-1
	Vanadium	484	ug/L	500	ug/L	96.8	90.0 - 110.0	P	03-FEB-10 10:40	020310-1
	Zinc	473	ug/L	500	ug/L	94.7	90.0 - 110.0	P	03-FEB-10 10:40	020310-1
	Mercury	4.97	ug/L	5	ug/L	99.3	80.0 - 120.0	AV	04-FEB-10 09:03	020410S1-4
	Arsenic	47.8	ug/L	50	ug/L	95.6	90.0 - 110.0	MS	14-FEB-10 05:48	100213-2
	Beryllium	48.7	ug/L	50	ug/L	97.3	90.0 - 110.0	MS	14-FEB-10 05:48	100213-2
	Nickel	51.6	ug/L	50	ug/L	103.1	90.0 - 110.0	MS	14-FEB-10 05:48	100213-2
	Selenium	49.4	ug/L	50	ug/L	98.8	90.0 - 110.0	MS	14-FEB-10 05:48	100213-2
	Thallium	48.9	ug/L	50	ug/L	97.8	90.0 - 110.0	MS	14-FEB-10 05:48	100213-2
	Uranium	54.4	ug/L	50	ug/L	108.8	90.0 - 110.0	MS	14-FEB-10 05:48	100213-2
	Uranium	53.3	ug/L	50	ug/L	106.7	90.0 - 110.0	MS	16-FEB-10 05:41	100215-3
CCV02	Aluminum	5040	ug/L	5000	ug/L	100.8	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Antimony	494	ug/L	500	ug/L	98.8	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Barium	482	ug/L	500	ug/L	96.3	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Cadmium	479	ug/L	500	ug/L	95.7	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Calcium	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Chromium	481	ug/L	500	ug/L	96.3	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Cobalt	472	ug/L	500	ug/L	94.4	90.0 - 110.0	P	03-FEB-10 11:01	020310-1
	Copper	477	ug/L	500	ug/L	95.4	90.0 - 110.0	P	03-FEB-10 11:01	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Iron	5140	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Lead	483	ug/L	500	ug/L	96.6	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Magnesium	5240	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Manganese	480	ug/L	500	ug/L	96	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Potassium	5020	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Silver	483	ug/L	500	ug/L	96.6	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Sodium	10200	ug/L	10000	ug/L	102.4	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Vanadium	485	ug/L	500	ug/L	97	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Zinc	475	ug/L	500	ug/L	95	90.0 – 110.0	P	03-FEB-10 11:01	020310-1
	Mercury	4.92	ug/L	5	ug/L	98.5	80.0 – 120.0	AV	04-FEB-10 09:26	020410S1-4
	Arsenic	47.2	ug/L	50	ug/L	94.3	90.0 – 110.0	MS	14-FEB-10 06:12	100213-2
	Beryllium	49.2	ug/L	50	ug/L	98.4	90.0 – 110.0	MS	14-FEB-10 06:12	100213-2
	Nickel	50.7	ug/L	50	ug/L	101.5	90.0 – 110.0	MS	14-FEB-10 06:12	100213-2
	Selenium	49.5	ug/L	50	ug/L	99	90.0 – 110.0	MS	14-FEB-10 06:12	100213-2
	Thallium	49.6	ug/L	50	ug/L	99.1	90.0 – 110.0	MS	14-FEB-10 06:12	100213-2
	Uranium	54.4	ug/L	50	ug/L	108.7	90.0 – 110.0	MS	14-FEB-10 06:12	100213-2
	Uranium	54.7	ug/L	50	ug/L	109.5	90.0 – 110.0	MS	16-FEB-10 06:15	100215-3
CCV03										
	Aluminum	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	03-FEB-10 12:23	020310-1
	Antimony	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	03-FEB-10 12:23	020310-1
	Barium	486	ug/L	500	ug/L	97.1	90.0 – 110.0	P	03-FEB-10 12:23	020310-1
	Cadmium	466	ug/L	500	ug/L	93.2	90.0 – 110.0	P	03-FEB-10 12:23	020310-1
	Calcium	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	03-FEB-10 12:23	020310-1
	Chromium	485	ug/L	500	ug/L	96.9	90.0 – 110.0	P	03-FEB-10 12:23	020310-1
	Cobalt	473	ug/L	500	ug/L	94.7	90.0 – 110.0	P	03-FEB-10 12:23	020310-1
	Copper	483	ug/L	500	ug/L	96.6	90.0 – 110.0	P	03-FEB-10 12:23	020310-1
	Iron	5160	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	03-FEB-10 12:23	020310-1
	Lead	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	03-FEB-10 12:23	020310-1
	Magnesium	5190	ug/L	5000	ug/L	103.8	90.0 – 110.0	P	03-FEB-10 12:23	020310-1
	Manganese	484	ug/L	500	ug/L	96.8	90.0 – 110.0	P	03-FEB-10 12:23	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Potassium	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Silver	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Sodium	10300	ug/L	10000	ug/L	102.9	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Vanadium	488	ug/L	500	ug/L	97.6	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Zinc	478	ug/L	500	ug/L	95.5	90.0 - 110.0	P	03-FEB-10 12:23	020310-1
	Mercury	4.99	ug/L	5	ug/L	99.8	80.0 - 120.0	AV	04-FEB-10 09:50	020410S1-4
	Arsenic	46.8	ug/L	50	ug/L	93.5	90.0 - 110.0	MS	14-FEB-10 07:11	100213-2
	Beryllium	53.9	ug/L	50	ug/L	107.8	90.0 - 110.0	MS	14-FEB-10 07:11	100213-2
	Nickel	49.9	ug/L	50	ug/L	99.9	90.0 - 110.0	MS	14-FEB-10 07:11	100213-2
	Selenium	47.6	ug/L	50	ug/L	95.3	90.0 - 110.0	MS	14-FEB-10 07:11	100213-2
	Thallium	49	ug/L	50	ug/L	98	90.0 - 110.0	MS	14-FEB-10 07:11	100213-2
	Uranium	54.4	ug/L	50	ug/L	108.7	90.0 - 110.0	MS	14-FEB-10 07:11	100213-2
CCV04	Aluminum	5140	ug/L	5000	ug/L	102.7	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Antimony	506	ug/L	500	ug/L	101.3	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Barium	489	ug/L	500	ug/L	97.8	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Cadmium	485	ug/L	500	ug/L	97.1	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Calcium	5150	ug/L	5000	ug/L	103	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Chromium	489	ug/L	500	ug/L	97.7	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Cobalt	485	ug/L	500	ug/L	97	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Copper	484	ug/L	500	ug/L	96.8	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Iron	5080	ug/L	5000	ug/L	101.6	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Lead	494	ug/L	500	ug/L	98.9	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Magnesium	5180	ug/L	5000	ug/L	103.6	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Manganese	487	ug/L	500	ug/L	97.5	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Potassium	5070	ug/L	5000	ug/L	101.4	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Silver	490	ug/L	500	ug/L	98	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Sodium	9720	ug/L	10000	ug/L	97.2	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Vanadium	492	ug/L	500	ug/L	98.3	90.0 - 110.0	P	03-FEB-10 13:18	020310-1
	Zinc	481	ug/L	500	ug/L	96.2	90.0 - 110.0	P	03-FEB-10 13:18	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Mercury	5.02	ug/L	5	ug/L	100.4	80.0 – 120.0	AV	04-FEB-10 10:13	020410S1-4
	Arsenic	48.1	ug/L	50	ug/L	96.2	90.0 – 110.0	MS	14-FEB-10 08:16	100213-2
	Beryllium	54.6	ug/L	50	ug/L	109.2	90.0 – 110.0	MS	14-FEB-10 08:16	100213-2
	Nickel	49.7	ug/L	50	ug/L	99.4	90.0 – 110.0	MS	14-FEB-10 08:16	100213-2
	Selenium	49.5	ug/L	50	ug/L	98.9	90.0 – 110.0	MS	14-FEB-10 08:16	100213-2
	Thallium	50.8	ug/L	50	ug/L	101.7	90.0 – 110.0	MS	14-FEB-10 08:16	100213-2
	Uranium	56.7	ug/L	50	ug/L	113.3	90.0 – 110.0	MS	14-FEB-10 08:16	100213-2
CCV05	Aluminum	5020	ug/L	5000	ug/L	100.4	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Antimony	502	ug/L	500	ug/L	100.5	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Barium	490	ug/L	500	ug/L	98	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Cadmium	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Calcium	5170	ug/L	5000	ug/L	103.3	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Chromium	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Cobalt	488	ug/L	500	ug/L	97.5	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Copper	483	ug/L	500	ug/L	96.6	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Iron	5280	ug/L	5000	ug/L	105.6	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Lead	485	ug/L	500	ug/L	96.9	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Magnesium	5290	ug/L	5000	ug/L	105.8	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Manganese	488	ug/L	500	ug/L	97.5	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Potassium	5040	ug/L	5000	ug/L	100.8	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Silver	494	ug/L	500	ug/L	98.8	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Sodium	10400	ug/L	10000	ug/L	104.2	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Vanadium	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Zinc	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	03-FEB-10 14:15	020310-1
	Mercury	5.02	ug/L	5	ug/L	100.4	80.0 – 120.0	AV	04-FEB-10 10:36	020410S1-4
CCV06	Aluminum	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Antimony	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	03-FEB-10 15:18	020310-1
	Barium	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	03-FEB-10 15:18	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cadmium	489	ug/L	500	ug/L	97.7	90.0 - 110.0	P	03-FEB-10 15:18	020310-1
	Calcium	5210	ug/L	5000	ug/L	104.3	90.0 - 110.0	P	03-FEB-10 15:18	020310-1
	Chromium	490	ug/L	500	ug/L	98	90.0 - 110.0	P	03-FEB-10 15:18	020310-1
	Cobalt	483	ug/L	500	ug/L	96.7	90.0 - 110.0	P	03-FEB-10 15:18	020310-1
	Copper	487	ug/L	500	ug/L	97.3	90.0 - 110.0	P	03-FEB-10 15:18	020310-1
	Iron	5200	ug/L	5000	ug/L	104.1	90.0 - 110.0	P	03-FEB-10 15:18	020310-1
	Lead	491	ug/L	500	ug/L	98.1	90.0 - 110.0	P	03-FEB-10 15:18	020310-1
	Magnesium	5270	ug/L	5000	ug/L	105.4	90.0 - 110.0	P	03-FEB-10 15:18	020310-1
	Manganese	490	ug/L	500	ug/L	97.9	90.0 - 110.0	P	03-FEB-10 15:18	020310-1
	Potassium	5150	ug/L	5000	ug/L	103	90.0 - 110.0	P	03-FEB-10 15:18	020310-1
	Silver	491	ug/L	500	ug/L	98.2	90.0 - 110.0	P	03-FEB-10 15:18	020310-1
	Sodium	9930	ug/L	10000	ug/L	99.3	90.0 - 110.0	P	03-FEB-10 15:18	020310-1
	Vanadium	492	ug/L	500	ug/L	98.4	90.0 - 110.0	P	03-FEB-10 15:18	020310-1
	Zinc	484	ug/L	500	ug/L	96.8	90.0 - 110.0	P	03-FEB-10 15:18	020310-1
	Mercury	5.04	ug/L	5	ug/L	100.9	80.0 - 120.0	AV	04-FEB-10 10:59	020410S1-4
CCV07	Aluminum	5200	ug/L	5000	ug/L	104	90.0 - 110.0	P	03-FEB-10 15:55	020310-1
	Antimony	508	ug/L	500	ug/L	101.7	90.0 - 110.0	P	03-FEB-10 15:55	020310-1
	Barium	498	ug/L	500	ug/L	99.7	90.0 - 110.0	P	03-FEB-10 15:55	020310-1
	Cadmium	495	ug/L	500	ug/L	99.1	90.0 - 110.0	P	03-FEB-10 15:55	020310-1
	Calcium	5300	ug/L	5000	ug/L	105.9	90.0 - 110.0	P	03-FEB-10 15:55	020310-1
	Chromium	498	ug/L	500	ug/L	99.5	90.0 - 110.0	P	03-FEB-10 15:55	020310-1
	Cobalt	498	ug/L	500	ug/L	99.6	90.0 - 110.0	P	03-FEB-10 15:55	020310-1
	Copper	492	ug/L	500	ug/L	98.4	90.0 - 110.0	P	03-FEB-10 15:55	020310-1
	Iron	5270	ug/L	5000	ug/L	105.4	90.0 - 110.0	P	03-FEB-10 15:55	020310-1
	Lead	488	ug/L	500	ug/L	97.6	90.0 - 110.0	P	03-FEB-10 15:55	020310-1
	Magnesium	5340	ug/L	5000	ug/L	106.9	90.0 - 110.0	P	03-FEB-10 15:55	020310-1
	Manganese	497	ug/L	500	ug/L	99.4	90.0 - 110.0	P	03-FEB-10 15:55	020310-1
	Potassium	5180	ug/L	5000	ug/L	103.6	90.0 - 110.0	P	03-FEB-10 15:55	020310-1
	Silver	501	ug/L	500	ug/L	100.1	90.0 - 110.0	P	03-FEB-10 15:55	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV08	Sodium	10000	ug/L	10000	ug/L	100.4	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Vanadium	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Zinc	492	ug/L	500	ug/L	98.3	90.0 – 110.0	P	03-FEB-10 15:55	020310-1
	Mercury	4.91	ug/L	5	ug/L	98.3	80.0 – 120.0	AV	04-FEB-10 11:22	020410S1-4
	Aluminum	5140	ug/L	5000	ug/L	102.8	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Antimony	497	ug/L	500	ug/L	99.5	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Barium	485	ug/L	500	ug/L	97	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Cadmium	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Calcium	5140	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Chromium	484	ug/L	500	ug/L	96.7	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Cobalt	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Copper	481	ug/L	500	ug/L	96.3	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Iron	5030	ug/L	5000	ug/L	100.6	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Lead	486	ug/L	500	ug/L	97.1	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Magnesium	5140	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Manganese	483	ug/L	500	ug/L	96.7	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Potassium	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Silver	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Sodium	9450	ug/L	10000	ug/L	94.5	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Vanadium	487	ug/L	500	ug/L	97.5	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Zinc	478	ug/L	500	ug/L	95.6	90.0 – 110.0	P	03-FEB-10 17:11	020310-1
	Mercury	4.85	ug/L	5	ug/L	96.9	80.0 – 120.0	AV	04-FEB-10 11:45	020410S1-4
CCV09	Aluminum	5160	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Antimony	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Barium	484	ug/L	500	ug/L	96.8	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Cadmium	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Calcium	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	P	03-FEB-10 18:21	020310-1
	Chromium	483	ug/L	500	ug/L	96.7	90.0 – 110.0	P	03-FEB-10 18:21	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cobalt	483	ug/L	500	ug/L	96.7	90.0 - 110.0	P	03-FEB-10 18:21	020310-1
	Copper	480	ug/L	500	ug/L	95.9	90.0 - 110.0	P	03-FEB-10 18:21	020310-1
	Iron	5030	ug/L	5000	ug/L	100.6	90.0 - 110.0	P	03-FEB-10 18:21	020310-1
	Lead	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	03-FEB-10 18:21	020310-1
	Magnesium	5080	ug/L	5000	ug/L	101.6	90.0 - 110.0	P	03-FEB-10 18:21	020310-1
	Manganese	483	ug/L	500	ug/L	96.6	90.0 - 110.0	P	03-FEB-10 18:21	020310-1
	Potassium	5090	ug/L	5000	ug/L	101.9	90.0 - 110.0	P	03-FEB-10 18:21	020310-1
	Silver	488	ug/L	500	ug/L	97.7	90.0 - 110.0	P	03-FEB-10 18:21	020310-1
	Sodium	9340	ug/L	10000	ug/L	93.4	90.0 - 110.0	P	03-FEB-10 18:21	020310-1
	Vanadium	488	ug/L	500	ug/L	97.7	90.0 - 110.0	P	03-FEB-10 18:21	020310-1
	Zinc	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	03-FEB-10 18:21	020310-1
	Mercury	4.96	ug/L	5	ug/L	99.1	80.0 - 120.0	AV	04-FEB-10 12:09	020410S1-4
CCV10	Aluminum	5170	ug/L	5000	ug/L	103.5	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Antimony	506	ug/L	500	ug/L	101.3	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Barium	489	ug/L	500	ug/L	97.7	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Cadmium	486	ug/L	500	ug/L	97.1	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Calcium	5210	ug/L	5000	ug/L	104.3	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Chromium	489	ug/L	500	ug/L	97.8	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Cobalt	485	ug/L	500	ug/L	96.9	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Copper	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Iron	5050	ug/L	5000	ug/L	101	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Lead	493	ug/L	500	ug/L	98.7	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Magnesium	5020	ug/L	5000	ug/L	100.5	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Manganese	487	ug/L	500	ug/L	97.5	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Potassium	5060	ug/L	5000	ug/L	101.2	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Silver	491	ug/L	500	ug/L	98.1	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Sodium	9030	ug/L	10000	ug/L	90.3	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Vanadium	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	03-FEB-10 19:37	020310-1
	Zinc	482	ug/L	500	ug/L	96.5	90.0 - 110.0	P	03-FEB-10 19:37	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV11	Mercury	4.86	ug/L	5	ug/L	97.1	80.0 - 120.0	AV	04-FEB-10 12:32	020410S1-4
	Aluminum	5170	ug/L	5000	ug/L	103.4	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Antimony	500	ug/L	500	ug/L	99.9	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Barium	488	ug/L	500	ug/L	97.6	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Cadmium	477	ug/L	500	ug/L	95.4	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Calcium	5270	ug/L	5000	ug/L	105.4	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Chromium	490	ug/L	500	ug/L	97.9	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Cobalt	482	ug/L	500	ug/L	96.4	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Copper	486	ug/L	500	ug/L	97.3	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Iron	5250	ug/L	5000	ug/L	105	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Lead	492	ug/L	500	ug/L	98.4	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Magnesium	5340	ug/L	5000	ug/L	106.9	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Manganese	487	ug/L	500	ug/L	97.3	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Potassium	5070	ug/L	5000	ug/L	101.5	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Silver	491	ug/L	500	ug/L	98.1	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Sodium	9510	ug/L	10000	ug/L	95.1	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Vanadium	494	ug/L	500	ug/L	98.7	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Zinc	481	ug/L	500	ug/L	96.1	90.0 - 110.0	P	03-FEB-10 21:02	020310-1
	Mercury	4.79	ug/L	5	ug/L	95.7	80.0 - 120.0	AV	04-FEB-10 12:55	020410S1-4
CCV12	Aluminum	5180	ug/L	5000	ug/L	103.6	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Antimony	498	ug/L	500	ug/L	99.6	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Barium	488	ug/L	500	ug/L	97.7	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Cadmium	475	ug/L	500	ug/L	95	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Calcium	5290	ug/L	5000	ug/L	105.7	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Chromium	491	ug/L	500	ug/L	98.2	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Cobalt	479	ug/L	500	ug/L	95.9	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Copper	486	ug/L	500	ug/L	97.3	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Iron	5290	ug/L	5000	ug/L	105.7	90.0 - 110.0	P	03-FEB-10 22:18	020310-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Lead	490	ug/L	500	ug/L	98	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Magnesium	5360	ug/L	5000	ug/L	107.2	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Manganese	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Potassium	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Silver	492	ug/L	500	ug/L	98.3	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Sodium	9580	ug/L	10000	ug/L	95.8	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Vanadium	494	ug/L	500	ug/L	98.8	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Zinc	482	ug/L	500	ug/L	96.5	90.0 - 110.0	P	03-FEB-10 22:18	020310-1
	Mercury	4.78	ug/L	5	ug/L	95.5	80.0 - 120.0	AV	04-FEB-10 13:19	020410S1-4
CCV13										
	Aluminum	5120	ug/L	5000	ug/L	102.4	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Antimony	495	ug/L	500	ug/L	98.9	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Barium	487	ug/L	500	ug/L	97.5	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Cadmium	485	ug/L	500	ug/L	96.9	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Calcium	5210	ug/L	5000	ug/L	104.3	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Chromium	489	ug/L	500	ug/L	97.7	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Cobalt	478	ug/L	500	ug/L	95.5	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Copper	486	ug/L	500	ug/L	97.1	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Iron	5200	ug/L	5000	ug/L	104.1	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Lead	488	ug/L	500	ug/L	97.6	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Magnesium	5220	ug/L	5000	ug/L	104.4	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Manganese	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Potassium	4990	ug/L	5000	ug/L	99.9	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Silver	491	ug/L	500	ug/L	98.1	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Sodium	9320	ug/L	10000	ug/L	93.2	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Vanadium	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Zinc	482	ug/L	500	ug/L	96.3	90.0 - 110.0	P	03-FEB-10 23:42	020310-1
	Mercury	4.79	ug/L	5	ug/L	95.7	80.0 - 120.0	AV	04-FEB-10 13:42	020410S1-4
CCV14										
	Mercury	4.79	ug/L	5	ug/L	95.7	80.0 - 120.0	AV	04-FEB-10 14:06	020410S1-4

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV15	Mercury	4.76	ug/L	5	ug/L	95.2	80.0 – 120.0	AV	04-FEB-10 14:29	020410S1-4
CCV16	Mercury	4.8	ug/L	5	ug/L	96	80.0 – 120.0	AV	04-FEB-10 14:35	020410S1-4
CCV17	Mercury	4.86	ug/L	5	ug/L	97.1	80.0 – 120.0	AV	04-FEB-10 14:53	020410S1-4

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: HG3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Mercury	.194	ug/L	.2	ug/L	97	70.0 - 130.0	AV	04-FEB-10 09:01	020410S1-4
	Nickel	2.2	ug/L	2	ug/L	110.2	70.0 - 130.0	MS	14-FEB-10 05:31	100213-2
	Thallium	1.1	ug/L	1	ug/L	109.8	70.0 - 130.0	MS	14-FEB-10 05:31	100213-2
	Beryllium	.559	ug/L	.5	ug/L	111.8	70.0 - 130.0	MS	14-FEB-10 05:31	100213-2
	Uranium	.246	ug/L	.2	ug/L	123	70.0 - 130.0	MS	14-FEB-10 05:31	100213-2
	Selenium	5.49	ug/L	5	ug/L	109.7	70.0 - 130.0	MS	14-FEB-10 05:31	100213-2
	Arsenic	5.86	ug/L	5	ug/L	117.2	70.0 - 130.0	MS	14-FEB-10 05:31	100213-2
	Uranium	.188	ug/L	.2	ug/L	94	70.0 - 130.0	MS	16-FEB-10 05:32	100215-3
PQL01										
	Aluminum	219	ug/L	200	ug/L	109.6	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Iron	98.6	ug/L	100	ug/L	98.6	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Lead	9.98	ug/L	10	ug/L	99.9	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Magnesium	308	ug/L	300	ug/L	102.8	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Manganese	10.6	ug/L	10	ug/L	106.3	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Potassium	159	ug/L	150	ug/L	106	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Silver	5.15	ug/L	5	ug/L	102.9	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Sodium	303	ug/L	300	ug/L	101	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Antimony	13	ug/L	10	ug/L	130.3	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Barium	5.23	ug/L	5	ug/L	104.7	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Cadmium	5.04	ug/L	5	ug/L	100.8	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Chromium	5.23	ug/L	5	ug/L	104.6	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Cobalt	5	ug/L	5	ug/L	100	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Copper	10.6	ug/L	10	ug/L	105.6	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Vanadium	4.88	ug/L	5	ug/L	97.6	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Zinc	10.2	ug/L	10	ug/L	102	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
	Calcium	218	ug/L	200	ug/L	108.9	70.0 - 130.0	P	03-FEB-10 10:06	020310-1
PQL02										
	Aluminum	213	ug/L	200	ug/L	106.7	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Iron	124	ug/L	100	ug/L	124.3	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Lead	8.91	ug/L	10	ug/L	89.1	70.0 - 130.0	P	03-FEB-10 13:24	020310-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source:

ICP CRDL Standard Source

Instrument ID: HG3,ICPMS6,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Magnesium	248	ug/L	300	ug/L	82.8	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Manganese	10.6	ug/L	10	ug/L	106.4	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Potassium	202	ug/L	150	ug/L	134.6	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Silver	5.39	ug/L	5	ug/L	107.8	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Sodium	306	ug/L	300	ug/L	102.2	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Antimony	14.2	ug/L	10	ug/L	141.9	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Barium	5.24	ug/L	5	ug/L	104.8	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Cadmium	5.01	ug/L	5	ug/L	100.2	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Chromium	5.1	ug/L	5	ug/L	102	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Cobalt	4.89	ug/L	5	ug/L	97.9	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Copper	10.8	ug/L	10	ug/L	108	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Vanadium	5.03	ug/L	5	ug/L	100.6	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Zinc	10.2	ug/L	10	ug/L	101.8	70.0 - 130.0	P	03-FEB-10 13:24	020310-1
	Calcium	218	ug/L	200	ug/L	109.1	70.0 - 130.0	P	03-FEB-10 13:24	020310-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303

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										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 09:59	020310-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 09:59	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 09:59	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 09:59	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 09:59	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 09:59	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 09:59	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 09:59	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 09:59	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 09:59	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 09:59	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 09:59	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 09:59	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 09:59	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 09:59	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 09:59	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 09:59	020310-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-FEB-10 09:00	020410S1-4
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	14-FEB-10 05:25	100213-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-FEB-10 05:25	100213-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-FEB-10 05:25	100213-2
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	14-FEB-10 05:25	100213-2
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	14-FEB-10 05:25	100213-2
	Uranium	0.076	+/-2	J	0.066	0.2	SOL	MS	14-FEB-10 05:25	100213-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	16-FEB-10 05:29	100215-3
CCB01										
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 10:47	020310-1
	Antimony	4.32	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 10:47	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 10:47	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 10:47	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 10:47	020310-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ng/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 10:47	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 10:47	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 10:47	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 10:47	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 10:47	020310-1
	Magnesium	-124.9	+/-300	J	85.0	300	SOL	P	03-FEB-10 10:47	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 10:47	020310-1
	Potassium	112.15	+/-250	J	64.0	250	SOL	P	03-FEB-10 10:47	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 10:47	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 10:47	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 10:47	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 10:47	020310-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-FEB-10 09:05	020410S1-4
	Arsenic	1.54	+/-5	J	1.0	5.0	SOL	MS	14-FEB-10 05:54	100213-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-FEB-10 05:54	100213-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-FEB-10 05:54	100213-2
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	14-FEB-10 05:54	100213-2
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	14-FEB-10 05:54	100213-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	14-FEB-10 05:54	100213-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	16-FEB-10 05:44	100215-3
CCB02	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 11:08	020310-1
	Antimony	4.18	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 11:08	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 11:08	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 11:08	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 11:08	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 11:08	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 11:08	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 11:08	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 11:08	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 11:08	020310-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303

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>
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 11:08	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 11:08	020310-1
	Potassium	87.32	+/-250	J	64.0	250	SOL	P	03-FEB-10 11:08	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 11:08	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 11:08	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 11:08	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 11:08	020310-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-FEB-10 09:28	020410S1-4
	Arsenic	1.05	+/-5	J	1.0	5.0	SOL	MS	14-FEB-10 06:18	100213-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-FEB-10 06:18	100213-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-FEB-10 06:18	100213-2
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	14-FEB-10 06:18	100213-2
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	14-FEB-10 06:18	100213-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	14-FEB-10 06:18	100213-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	16-FEB-10 06:18	100215-3
CCB03	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 12:30	020310-1
	Antimony	4.95	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 12:30	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 12:30	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 12:30	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 12:30	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 12:30	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 12:30	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 12:30	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 12:30	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 12:30	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 12:30	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 12:30	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 12:30	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 12:30	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 12:30	020310-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB04	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 12:30	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 12:30	020310-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-FEB-10 09:51	020410S1-4
	Arsenic	1.15	+/-5	J	1.0	5.0	SOL	MS	14-FEB-10 07:17	100213-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-FEB-10 07:17	100213-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-FEB-10 07:17	100213-2
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	14-FEB-10 07:17	100213-2
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	14-FEB-10 07:17	100213-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	14-FEB-10 07:17	100213-2
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 13:31	020310-1
	Antimony	5.36	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 13:31	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 13:31	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 13:31	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 13:31	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 13:31	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 13:31	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 13:31	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 13:31	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 13:31	020310-1
CCB04	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 13:31	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 13:31	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 13:31	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 13:31	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 13:31	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 13:31	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 13:31	020310-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-FEB-10 10:15	020410S1-4
	Arsenic	1.98	+/-5	J	1.0	5.0	SOL	MS	14-FEB-10 08:22	100213-2
CCB04	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	14-FEB-10 08:22	100213-2
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	14-FEB-10 08:22	100213-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303

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	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	14-FEB-10 08:22	100213-2
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	14-FEB-10 08:22	100213-2
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	14-FEB-10 08:22	100213-2
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 14:22	020310-1
	Antimony	4.76	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 14:22	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 14:22	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 14:22	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 14:22	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 14:22	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 14:22	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 14:22	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 14:22	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 14:22	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 14:22	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 14:22	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 14:22	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 14:22	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 14:22	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 14:22	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 14:22	020310-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-FEB-10 10:38	020410S1-4
CCB06	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 15:24	020310-1
	Antimony	4.75	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 15:24	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 15:24	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 15:24	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 15:24	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 15:24	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 15:24	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 15:24	020310-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 15:24	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 15:24	020310-1
	Magnesium	-126.66	+/-300	J	85.0	300	SOL	P	03-FEB-10 15:24	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 15:24	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 15:24	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 15:24	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 15:24	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 15:24	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 15:24	020310-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-FEB-10 11:01	020410S1-4
CCB07	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 16:02	020310-1
	Antimony	4.13	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 16:02	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 16:02	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 16:02	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 16:02	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 16:02	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 16:02	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 16:02	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 16:02	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 16:02	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 16:02	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 16:02	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 16:02	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 16:02	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 16:02	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 16:02	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 16:02	020310-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-FEB-10 11:24	020410S1-4
CCB08	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 17:18	020310-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Antimony	4.82	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 17:18	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 17:18	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 17:18	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 17:18	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 17:18	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 17:18	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 17:18	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 17:18	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 17:18	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 17:18	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 17:18	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 17:18	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 17:18	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 17:18	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 17:18	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 17:18	020310-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-FEB-10 11:47	020410S1-4
CCB09	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 18:28	020310-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 18:28	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 18:28	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 18:28	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 18:28	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 18:28	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 18:28	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 18:28	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 18:28	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 18:28	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 18:28	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 18:28	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 18:28	020310-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303

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>
CCB10	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 18:28	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 18:28	020310-1
	Vanadium	-1.11	+/-5	J	1.0	5.0	SOL	P	03-FEB-10 18:28	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 18:28	020310-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-FEB-10 12:11	020410S1-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 19:44	020310-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 19:44	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 19:44	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 19:44	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 19:44	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 19:44	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 19:44	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 19:44	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 19:44	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 19:44	020310-1
	Magnesium	-120.46	+/-300	J	85.0	300	SOL	P	03-FEB-10 19:44	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 19:44	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 19:44	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 19:44	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 19:44	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 19:44	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 19:44	020310-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-FEB-10 12:34	020410S1-4
CCB11	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 21:09	020310-1
	Antimony	4.9	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 21:09	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 21:09	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 21:09	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 21:09	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 21:09	020310-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303

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	03-FEB-10 21:09	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 21:09	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 21:09	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 21:09	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 21:09	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 21:09	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 21:09	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 21:09	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 21:09	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 21:09	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 21:09	020310-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-FEB-10 12:57	020410S1-4
CCB12	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 22:25	020310-1
	Antimony	3.76	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 22:25	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 22:25	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 22:25	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 22:25	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 22:25	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 22:25	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 22:25	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 22:25	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 22:25	020310-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	03-FEB-10 22:25	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 22:25	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 22:25	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 22:25	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 22:25	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 22:25	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 22:25	020310-1
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-FEB-10 13:21	020410S1-4

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303

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	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	03-FEB-10 23:49	020310-1
	Antimony	4.09	+/-10	J	3.3	10.0	SOL	P	03-FEB-10 23:49	020310-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 23:49	020310-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 23:49	020310-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 23:49	020310-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 23:49	020310-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	03-FEB-10 23:49	020310-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	03-FEB-10 23:49	020310-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	03-FEB-10 23:49	020310-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	03-FEB-10 23:49	020310-1
	Magnesium	-87.15	+/-300	J	85.0	300	SOL	P	03-FEB-10 23:49	020310-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	03-FEB-10 23:49	020310-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	03-FEB-10 23:49	020310-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 23:49	020310-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	03-FEB-10 23:49	020310-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	03-FEB-10 23:49	020310-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	03-FEB-10 23:49	020310-1
	Mercury	0.068	+/-0.2	U	0.068	0.2	SOL	AV	04-FEB-10 13:44	020410S1-4
CCB14	Mercury	0.068	+/-0.2	U	0.068	0.2	SOL	AV	04-FEB-10 14:08	020410S1-4
CCB15	Mercury	0.068	+/-0.2	U	0.068	0.2	SOL	AV	04-FEB-10 14:31	020410S1-4
CCB16	Mercury	0.068	+/-0.2	U	0.068	0.2	SOL	AV	04-FEB-10 14:37	020410S1-4
CCB17	Mercury	0.068	+/-0.2	U	0.068	0.2	SOL	AV	04-FEB-10 14:55	020410S1-4

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-1303
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>
1202021571	Aluminum	6550	ug/Kg	+/-19300	U	P	6550	19300
	Antimony	318	ug/Kg	+/-963	U	P	318	963
	Barium	96.3	ug/Kg	+/-482	U	P	96.3	482
	Cadmium	96.3	ug/Kg	+/-482	U	P	96.3	482
	Calcium	7710	ug/Kg	+/-24100	U	P	7710	24100
	Chromium	145	ug/Kg	+/-482	U	P	145	482
	Cobalt	145	ug/Kg	+/-482	U	P	145	482
	Copper	289	ug/Kg	+/-963	U	P	289	963
	Iron	7710	ug/Kg	+/-24100	U	P	7710	24100
	Lead	241	ug/Kg	+/-963	U	P	241	963
	Magnesium	8190	ug/Kg	+/-28900	U	P	8190	28900
	Manganese	193	ug/Kg	+/-963	U	P	193	963
	Potassium	6170	ug/Kg	+/-24100	U	P	6170	24100
	Silver	96.3	ug/Kg	+/-482	U	P	96.3	482
	Sodium	6740	ug/Kg	+/-24100	U	P	6740	24100
	Vanadium	96.3	ug/Kg	+/-482	U	P	96.3	482
	Zinc	318	ug/Kg	+/-963	U	P	318	963
1202021577	Arsenic	0.199	mg/kg	+/-0.994	U	MS	0.199	0.994
	Beryllium	0.0199	mg/kg	+/-0.0994	U	MS	0.0199	0.0994
	Nickel	0.0994	mg/kg	+/-0.398	U	MS	0.0994	0.398
	Selenium	0.497	mg/kg	+/-0.994	U	MS	0.497	0.994
	Thallium	0.0596	mg/kg	+/-0.199	U	MS	0.0596	0.199
	Uranium	0.0131	mg/kg	+/-0.0398	U	MS	0.0131	0.0398
1202024863	Mercury	4.05	ug/kg	+/-11.9	U	AV	4.05	11.9

METALS
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Interference Check Sample

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Aluminum	529000	ug/L	500000	ug/L	106	80.0 – 120.0	03-FEB-10 10:13	020310-1
	Antimony	4.48	ug/L					03-FEB-10 10:13	020310-1
	Barium	0.099	ug/L					03-FEB-10 10:13	020310-1
	Cadmium	-2.42	ug/L					03-FEB-10 10:13	020310-1
	Calcium	485000	ug/L	500000	ug/L	97	80.0 – 120.0	03-FEB-10 10:13	020310-1
	Chromium	0.977	ug/L					03-FEB-10 10:13	020310-1
	Cobalt	-1.62	ug/L					03-FEB-10 10:13	020310-1
	Copper	2.6	ug/L					03-FEB-10 10:13	020310-1
	Iron	186000	ug/L	200000	ug/L	92.8	80.0 – 120.0	03-FEB-10 10:13	020310-1
	Lead	-6.38	ug/L					03-FEB-10 10:13	020310-1
	Magnesium	490000	ug/L	500000	ug/L	98	80.0 – 120.0	03-FEB-10 10:13	020310-1
	Manganese	-1.41	ug/L					03-FEB-10 10:13	020310-1
	Potassium	-184.0	ug/L					03-FEB-10 10:13	020310-1
	Silver	2.21	ug/L					03-FEB-10 10:13	020310-1
	Sodium	16.0	ug/L					03-FEB-10 10:13	020310-1
	Vanadium	-2.31	ug/L					03-FEB-10 10:13	020310-1
	Zinc	7.18	ug/L					03-FEB-10 10:13	020310-1
ICSAB01									
	Aluminum	524000	ug/L	500000	ug/L	105	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Antimony	525	ug/L	500	ug/L	105	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Barium	487	ug/L	500	ug/L	97.4	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Cadmium	466	ug/L	500	ug/L	93.2	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Calcium	483000	ug/L	500000	ug/L	96.6	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Chromium	482	ug/L	500	ug/L	96.4	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Cobalt	438	ug/L	500	ug/L	87.7	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Copper	549	ug/L	500	ug/L	110	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Iron	189000	ug/L	200000	ug/L	94.3	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Lead	451	ug/L	500	ug/L	90.3	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Magnesium	494000	ug/L	500000	ug/L	98.8	80.0 – 120.0	03-FEB-10 10:19	020310-1

METALS

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Interference Check Sample

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

ICS:

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Manganese	476	ug/L	500	ug/L	95.2	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Potassium	5210	ug/L	5000	ug/L	104	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Silver	272	ug/L	250	ug/L	109	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Sodium	5340	ug/L	5000	ug/L	107	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Vanadium	500	ug/L	500	ug/L	100	80.0 – 120.0	03-FEB-10 10:19	020310-1
	Zinc	496	ug/L	500	ug/L	99.2	80.0 – 120.0	03-FEB-10 10:19	020310-1

METALS

-4-

Interference Check Sample

SDG No: 10-1303

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS6

<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	0.956	ug/L					14-FEB-10 05:36	100213-2
	Beryllium	0.067	ug/L					14-FEB-10 05:36	100213-2
	Nickel	4.14	ug/L					14-FEB-10 05:36	100213-2
	Selenium	-1.95	ug/L					14-FEB-10 05:36	100213-2
	Thallium	0.027	ug/L					14-FEB-10 05:36	100213-2
	Uranium	0.0	ug/L					14-FEB-10 05:36	100213-2
ICSAB01									
	Arsenic	23.6	ug/L	20	ug/L	118	80.0 - 120.0	14-FEB-10 05:42	100213-2
	Beryllium	21.4	ug/L	20	ug/L	107	80.0 - 120.0	14-FEB-10 05:42	100213-2
	Nickel	25.6	ug/L	23.31	ug/L	110	80.0 - 120.0	14-FEB-10 05:42	100213-2
	Selenium	20.3	ug/L	20	ug/L	101	80.0 - 120.0	14-FEB-10 05:42	100213-2
	Thallium	20.8	ug/L	20	ug/L	104	80.0 - 120.0	14-FEB-10 05:42	100213-2
	Uranium	23.7	ug/L	20	ug/L	118	80.0 - 120.0	14-FEB-10 05:42	100213-2

METALS
-4-
Interference Check Sample

SDG No: 10-1303**Contract:** LANL01004**Lab Code:** GEL**ICS:** O2Si**Instrument:** ICPMS6

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Uranium	-0.05	ug/L					16-FEB-10 05:35	100215-3
ICSAB01	Uranium	20.2	ug/L	20	ug/L	101	80.0 - 120.0	16-FEB-10 05:38	100215-3

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1303 Client ID RE15-10-7194S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 79

Sample ID: 245136001 Spike ID: 1202021574

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		13100000		6410000		620000	1080	N/A	P
Antimony	ug/Kg	75-125	50900		395	U	62000	81.7		P
Barium	ug/Kg	75-125	163000		91100		62000	116		P
Cadmium	ug/Kg	75-125	59500		120	U	62000	95.9		P
Calcium	ug/Kg	75-125	2110000		1450000		620000	107		P
Chromium	ug/Kg	75-125	71500		8920		62000	101		P
Cobalt	ug/Kg	75-125	61400		3260		62000	93.7		P
Copper	ug/Kg	75-125	69200		5360		62000	103		P
Iron	ug/Kg		13200000		10700000		620000	407	N/A	P
Lead	ug/Kg	75-125	70000		11300		62000	94.7		P
Magnesium	ug/Kg	75-125	2230000		1100000		620000	183	N	P
Manganese	ug/Kg		331000		262000		62000	112	N/A	P
Potassium	ug/Kg	75-125	2110000		1100000		620000	162	N	P
Silver	ug/Kg	75-125	62400		574	J	62000	99.6		P
Sodium	ug/Kg	75-125	660000		75600		620000	94.3		P
Vanadium	ug/Kg	75-125	83400		18300		62000	105		P
Zinc	ug/Kg	75-125	86500		26100		62000	97.4		P

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1303 Client ID RE15-10-7194SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 79

Sample ID: 245136001 Spike ID: 1202021575

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		13300000		6410000		619000	1110	N/A	P
Antimony	ug/Kg	75-125	54700		395	U	61900	88		P
Barium	ug/Kg	75-125	175000		91100		61900	135	N	P
Cadmium	ug/Kg	75-125	62700		120	U	61900	101		P
Calcium	ug/Kg	75-125	2200000		1450000		619000	122		P
Chromium	ug/Kg	75-125	75900		8920		61900	108		P
Cobalt	ug/Kg	75-125	65000		3260		61900	99.7		P
Copper	ug/Kg	75-125	73100		5360		61900	109		P
Iron	ug/Kg		13400000		10700000		619000	446	N/A	P
Lead	ug/Kg	75-125	75300		11300		61900	103		P
Magnesium	ug/Kg	75-125	2260000		1100000		619000	186	N	P
Manganese	ug/Kg		360000		262000		61900	159	N/A	P
Potassium	ug/Kg	75-125	2120000		1100000		619000	165	N	P
Silver	ug/Kg	75-125	65800		574	J	61900	105		P
Sodium	ug/Kg	75-125	666000		75600		619000	95.3		P
Vanadium	ug/Kg	75-125	87700		18300		61900	112		P
Zinc	ug/Kg	75-125	93000		26100		61900	108		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1303 Client ID RE15-10-7194S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 79

Sample ID: 245136001 Spike ID: 1202021580

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	11.5		1.87		9.6	99.8		MS
Beryllium	mg/kg	75-125	7.74		0.781		6	116		MS
Nickel	mg/kg	75-125	12.4		6.35		6	102		MS
Selenium	mg/kg	75-125	2.03		0.614	U	2.4	84.6		MS
Thallium	mg/kg	75-125	12.7		0.183	J	12	104		MS
Uranium	mg/kg	75-125	13.4		6.67		6	112		MS

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1303 Client ID RE15-10-7194SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 79

Sample ID: 245136001 Spike ID: 1202021581

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	11.8		1.87		9.66	103		MS
Beryllium	mg/kg	75-125	7.99		0.781		6.04	119		MS
Nickel	mg/kg	75-125	13		6.35		6.04	111		MS
Selenium	mg/kg	75-125	2.3		0.614	U	2.41	95.2		MS
Thallium	mg/kg	75-125	13.2		0.183	J	12.1	108		MS
Uranium	mg/kg	75-125	17.2		6.67		6.04	174	N	MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1303 Client ID RE15-10-7194S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 79

Sample ID: 245136001 Spike ID: 1202024866

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	161		14.8		141	103		AV

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1303 **Client ID** RE15-10-7194SD**Contract:** LANL01004 **Level:** Low**Matrix:** SOIL **% Solids:** 79**Sample ID:** 245136001 **Spike ID:** 1202024868

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Mercury	ug/kg	75-125	168		14.8		150	102		AV

Metals
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Duplicate Sample Summary

SDG No.: 10-1303

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-7194D

Sample ID: 245136001

Duplicate ID: 1202021572

Percent Solids for Dup: 79

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20%	6410000		6760000		5.32		P
Antimony	ug/Kg		395 U		401 U				P
Barium	ug/Kg	+/-20%	91100		104000		13.4		P
Cadmium	ug/Kg		120 U		122 U				P
Calcium	ug/Kg	+/-20%	1450000		1530000		5.32		P
Chromium	ug/Kg	+/-20%	8920		10300		14.7		P
Cobalt	ug/Kg	+/-20%	3260		3620		10.4		P
Copper	ug/Kg	+/-1220	5360		5860		8.85		P
Iron	ug/Kg	+/-20%	10700000		11700000		9.09		P
Lead	ug/Kg	+/-20%	11300		11800		4.72		P
Magnesium	ug/Kg	+/-20%	1100000		1260000		13.7		P
Manganese	ug/Kg	+/-20%	262000		285000		8.56		P
Potassium	ug/Kg	+/-20%	1100000		1200000		8.79		P
Silver	ug/Kg	+/-608	574 J		616		7.02		P
Sodium	ug/Kg	+/-30400	75600		67500		11.3		P
Vanadium	ug/Kg	+/-20%	18300		21100		14.2		P
Zinc	ug/Kg	+/-20%	26100		25600		1.72		P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1303

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-7194SD

Sample ID: 1202021574

Duplicate ID: 1202021575

Percent Solids for Dup: 79

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20	13100000		13300000		1.22		P
Antimony	ug/Kg	+/-20	50900		54700		7.2		P
Barium	ug/Kg	+/-20	163000		175000		6.65		P
Cadmium	ug/Kg	+/-20	59500		62700		5.28		P
Calcium	ug/Kg	+/-20	2110000		2200000		4.12		P
Chromium	ug/Kg	+/-20	71500		75900		5.92		P
Cobalt	ug/Kg	+/-20	61400		65000		5.71		P
Copper	ug/Kg	+/-20	69200		73100		5.48		P
Iron	ug/Kg	+/-20	13200000		13400000		1.81		P
Lead	ug/Kg	+/-20	70000		75300		7.29		P
Magnesium	ug/Kg	+/-20	2230000		2260000		.946		P
Manganese	ug/Kg	+/-20	331000		360000		8.46		P
Potassium	ug/Kg	+/-20	2110000		2120000		.537		P
Silver	ug/Kg	+/-20	62400		65800		5.31		P
Sodium	ug/Kg	+/-20	660000		666000		.775		P
Vanadium	ug/Kg	+/-20	83400		87700		5.03		P
Zinc	ug/Kg	+/-20	86500		93000		7.29		P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1303

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-7194D

Sample ID: 245136001

Duplicate ID: 1202021578

Percent Solids for Dup: 79

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.2	1.87		2.08		10.5		MS
Beryllium	mg/kg	+/-20%	0.781		0.794		1.6		MS
Nickel	mg/kg	+/-20%	6.35		6.16		3.09		MS
Selenium	mg/kg		0.614 U		0.6 U				MS
Thallium	mg/kg	+/-0.24	0.183 J		0.174 J		4.9		MS
Uranium	mg/kg	+/-20%	6.67		5.99		10.7		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1303

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-7194SD

Sample ID: 1202021580

Duplicate ID: 1202021581

Percent Solids for Dup: 79

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	11.5		11.8		3.21		MS
Beryllium	mg/kg	+/-20	7.74		7.99		3.08		MS
Nickel	mg/kg	+/-20	12.4		13		4.64		MS
Selenium	mg/kg	+/-20	2.03		2.3		12.3		MS
Thallium	mg/kg	+/-20	12.7		13.2		3.65		MS
Uranium	mg/kg	+/-20	13.4		17.2		25	*	MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1303

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-7194D

Sample ID: 245136001

Duplicate ID: 1202024865

Percent Solids for Dup: 79

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-13.2	14.8		17.1		14.1		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1303

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-7194SD

Sample ID: 1202024866

Duplicate ID: 1202024868

Percent Solids for Dup: 79

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20	161		168		4.5		AV

METALS

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Laboratory Control Sample Summary

SDG NO. 10-1303

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>
1202021576								
	Aluminum	ug/Kg	10500000	8440000		80.4	56-144	P
	Antimony	ug/Kg	173000	146000		84.1	71-130	P
	Barium	ug/Kg	198000	185000		93.6	80-120	P
	Cadmium	ug/Kg	60700	51900		85.5	81-120	P
	Calcium	ug/Kg	9870000	9390000		95.1	83-117	P
	Chromium	ug/Kg	236000	215000		91.1	80-120	P
	Cobalt	ug/Kg	91200	81200		89	81-120	P
	Copper	ug/Kg	174000	171000		98.1	81-118	P
	Iron	ug/Kg	18000000	17800000		99	51-149	P
	Lead	ug/Kg	86000	75900		88.3	79-121	P
	Magnesium	ug/Kg	4000000	3580000		89.5	79-122	P
	Manganese	ug/Kg	558000	485000		87	81-119	P
	Potassium	ug/Kg	4300000	3880000		90.3	74-127	P
	Silver	ug/Kg	30100	29300		97.5	66-134	P
	Sodium	ug/Kg	1020000	885000		86.8	74-127	P
	Vanadium	ug/Kg	115000	113000		98.1	79-121	P
	Zinc	ug/Kg	594000	527000		88.7	80-121	P

METALS

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Laboratory Control Sample Summary

SDG NO. 10-1303

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>
1202021582	Arsenic	mg/kg	104	109		105	78-123	MS
	Beryllium	mg/kg	77.6	79.9		103	84-116	MS
	Nickel	mg/kg	134	144		107	78-123	MS
	Selenium	mg/kg	286	286		100	77-123	MS
	Thallium	mg/kg	121	126		104	78-122	MS
	Uranium	mg/kg	2.13	2.29		108	73-127	MS

METALS

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Laboratory Control Sample Summary

SDG NO. 10-1303

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>
1202024864	Mercury	ug/kg	5150	5440		106	71.6-128.3	AV

METALS

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Serial Dilution Sample Summary

SDG NO. 10-1303 Client ID RE15-10-7194L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 245136001 Serial Dilution ID: 1202021573

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	53600		53500		.187		10	P
Antimony	3.3	U	16.5	U				P
Barium	762		735		3.54		10	P
Cadmium	1	U	5	U				P
Calcium	12100		12000		.826		10	P
Chromium	74.6		70.5		5.5			P
Cobalt	27.3		26.5		3.11			P
Copper	44.8		37.5	J	16.4			P
Iron	89100		88000		1.23		10	P
Lead	94.3		91.5		2.97			P
Magnesium	9210		8750		4.99		10	P
Manganese	2190		2150		1.83		10	P
Potassium	9190		9100		.979		10	P
Silver	4.8	J	5.9	J	22.9			P
Sodium	632		535	J	15.3			P
Vanadium	153		147		3.92		10	P
Zinc	218		197		9.63		10	P

METALS

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Serial Dilution Sample Summary

SDG NO. 10-1303 **Client ID** RE15-10-7194L**Contract:** LANL01004**Matrix:** SOLID **Level:** Low**Sample ID:** 245136001 **Serial Dilution ID:** 1202021579

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Arsenic	7.61		14.1	J	84.6			MS
Beryllium	3.18		3.75		17.8			MS
Nickel	25.8		28.1		8.91			MS
Selenium	2.5	U	12.5	U				MS
Thallium	.744	J	1.74	J	134			MS
Uranium	27.1		27.2		.369		10	MS

METALS

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Serial Dilution Sample Summary

SDG NO. 10-1303 **Client ID** RE15-10-7194L**Contract:** LANL01004**Matrix:** SOLID **Level:** Low**Sample ID:** 245136001 **Serial Dilution ID:** 1202024867

Analyte	<u>Initial</u> <u>Value</u> <u>ug/L</u>	<u>C</u>	<u>Serial</u> <u>Value</u> <u>ug/L</u>	<u>C</u>	<u>%</u> <u>Difference</u>	<u>Qual</u>	<u>Acceptance</u> <u>Limit</u>	<u>M</u>
Mercury	.23		.34	U	100			AV

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-1303

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	944110						
1202021571	MB for batch 944110	MB	S	27-JAN-10	.519g	50mL	
1202021576	LCS for batch 944110	LCS	S	27-JAN-10	.524g	50mL	
1202021574	RE15-10-7194S	MS	S	27-JAN-10	.508g	50mL	
1202021575	RE15-10-7194SD	MSD	S	27-JAN-10	.509g	50mL	
1202021572	RE15-10-7194D	DUP	S	27-JAN-10	.518g	50mL	
245136001	RE15-10-7194	SAMPLE	S	27-JAN-10	.527g	50mL	
245136002	RE15-10-7186	SAMPLE	S	27-JAN-10	.544g	50mL	
245136003	RE15-10-7191	SAMPLE	S	27-JAN-10	.524g	50mL	
245136004	RE15-10-7195	SAMPLE	S	27-JAN-10	.521g	50mL	
245136005	RE15-10-7196	SAMPLE	S	27-JAN-10	.548g	50mL	
245136006	RE15-10-7197	SAMPLE	S	27-JAN-10	.503g	50mL	
245136007	RE15-10-7193	SAMPLE	S	27-JAN-10	.523g	50mL	
245136008	RE15-10-7189	SAMPLE	S	27-JAN-10	.504g	50mL	
245136009	RE15-10-7187	SAMPLE	S	27-JAN-10	.508g	50mL	
245136010	RE15-10-7188	SAMPLE	S	27-JAN-10	.525g	50mL	
245136011	RE15-10-7190	SAMPLE	S	27-JAN-10	.524g	50mL	
245136012	RE15-10-7192	SAMPLE	S	27-JAN-10	.532g	50mL	
245136013	RE15-10-7219	SAMPLE	S	27-JAN-10	.543g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1303

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 944112							
1202021577	MB for batch 944112	MB	S	28-JAN-10	.503g	50mL	
1202021582	LCS for batch 944112	LCS	S	28-JAN-10	.512g	50mL	
1202021580	RE15-10-7194S	MS	S	28-JAN-10	.525g	50mL	
1202021581	RE15-10-7194SD	MSD	S	28-JAN-10	.522g	50mL	
1202021578	RE15-10-7194D	DUP	S	28-JAN-10	.525g	50mL	
245136001	RE15-10-7194	SAMPLE	S	28-JAN-10	.513g	50mL	
245136002	RE15-10-7186	SAMPLE	S	28-JAN-10	.534g	50mL	
245136003	RE15-10-7191	SAMPLE	S	28-JAN-10	.511g	50mL	
245136004	RE15-10-7195	SAMPLE	S	28-JAN-10	.522g	50mL	
245136005	RE15-10-7196	SAMPLE	S	28-JAN-10	.556g	50mL	
245136006	RE15-10-7197	SAMPLE	S	28-JAN-10	.521g	50mL	
245136007	RE15-10-7193	SAMPLE	S	28-JAN-10	.523g	50mL	
245136008	RE15-10-7189	SAMPLE	S	28-JAN-10	.512g	50mL	
245136009	RE15-10-7187	SAMPLE	S	28-JAN-10	.505g	50mL	
245136010	RE15-10-7188	SAMPLE	S	28-JAN-10	.518g	50mL	
245136011	RE15-10-7190	SAMPLE	S	28-JAN-10	.524g	50mL	
245136012	RE15-10-7192	SAMPLE	S	28-JAN-10	.507g	50mL	
245136013	RE15-10-7219	SAMPLE	S	28-JAN-10	.533g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1303

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 945443							
1202024863	MB for batch 945443	MB	S	03-FEB-10	.504g	30mL	
1202024864	LCS for batch 945443	LCS	S	03-FEB-10	.202g	30mL	
1202024866	RE15-10-7194S	MS	S	03-FEB-10	.537g	30mL	
1202024868	RE15-10-7194SD	MSD	S	03-FEB-10	.503g	30mL	
1202024865	RE15-10-7194D	DUP	S	03-FEB-10	.571g	30mL	
245136001	RE15-10-7194	SAMPLE	S	03-FEB-10	.586g	30mL	
245136002	RE15-10-7186	SAMPLE	S	03-FEB-10	.508g	30mL	
245136003	RE15-10-7191	SAMPLE	S	03-FEB-10	.528g	30mL	
245136004	RE15-10-7195	SAMPLE	S	03-FEB-10	.539g	30mL	
245136005	RE15-10-7196	SAMPLE	S	03-FEB-10	.522g	30mL	
245136006	RE15-10-7197	SAMPLE	S	03-FEB-10	.547g	30mL	
245136007	RE15-10-7193	SAMPLE	S	03-FEB-10	.537g	30mL	
245136008	RE15-10-7189	SAMPLE	S	03-FEB-10	.526g	30mL	
245136009	RE15-10-7187	SAMPLE	S	03-FEB-10	.535g	30mL	
245136010	RE15-10-7188	SAMPLE	S	03-FEB-10	.506g	30mL	
245136011	RE15-10-7190	SAMPLE	S	03-FEB-10	.525g	30mL	
245136012	RE15-10-7192	SAMPLE	S	03-FEB-10	.501g	30mL	
245136013	RE15-10-7219	SAMPLE	S	03-FEB-10	.595g	30mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS6

Start Date: 14-FEB-10

End Date: 14-FEB-10

Client Sdg: 10-1303

Method MS

Data File: 100213-2

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	05:01			X		X											X	X	X			X	X		
S10	1	05:07			X		X											X	X	X			X	X		
S100	1	05:13			X		X											X	X	X			X	X		
ICV01	1	05:19			X		X											X	X	X			X	X		
ICB01	1	05:25			X		X											X	X	X			X	X		
CRDL01	1	05:31			X		X											X	X	X			X	X		
ICSA01	1	05:36			X		X											X	X	X			X	X		
ICSAB01	1	05:42			X		X											X	X	X			X	X		
CCV01	1	05:48			X		X											X	X	X			X	X		
CCB01	1	05:54			X		X											X	X	X			X	X		
1202021577	2	06:00			X		X											X	X	X			X	X		
1202021582	40	06:06			X		X											X	X	X			X	X		
CCV02	1	06:12			X		X											X	X	X			X	X		
CCB02	1	06:18			X		X											X	X	X			X	X		
245136001	2	06:24			X		X											X	X	X			X	X		
1202021578	2	06:30			X		X											X	X	X			X	X		
1202021579	2	06:35			X		X											X	X	X			X	X		
1202021580	2	06:41			X		X											X	X	X			X	X		
1202021581	10	06:47			X		X											X	X	X			X	X		
245136002	2	06:53			X		X											X	X	X			X	X		
245136003	2	06:59			X		X											X	X	X			X	X		
245136004	2	07:05			X		X											X	X	X			X	X		
CCV03	1	07:11			X		X											X	X	X			X	X		
CCB03	1	07:17			X		X											X	X	X			X	X		
245136005	2	07:23			X		X											X	X	X			X			
245136006	2	07:29			X		X											X	X	X			X			
245136007	2	07:34			X		X											X	X	X			X			
245136008	2	07:40			X		X											X	X	X			X			
245136009	2	07:46			X		X											X	X	X			X			
245136010	2	07:52			X		X											X	X	X			X			
245136011	2	07:58			X		X											X	X	X			X			
245136012	2	08:04			X		X											X	X	X			X			
245136013	2	08:10			X		X											X	X	X			X			
CCV04	1	08:16			X		X											X	X	X			X	X		
CCB04	1	08:22			X		X											X	X	X			X	X		

Metals
-14-
Analysis Run Log

Contract: LANL01004**Lab Code:** GEL**Inst Name:** ICPMS6**Start Date:** 16-FEB-10**End Date:** 16-FEB-10**Client Sdg:** 10-1303**Method:** MS**Data File:** 100215-3

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Ti	U	V	Zn
S0.0	1	05:17																						X		
S10	1	05:20																						X		
S100	1	05:23																						X		
ICV01	1	05:26																						X		
ICB01	1	05:29																						X		
CRDL01	1	05:32																						X		
ICSA01	1	05:35																						X		
ICSAB01	1	05:38																						X		
CCV01	1	05:41																						X		
CCB01	1	05:44																						X		
245136005	2	05:47																						X		
245136006	2	05:50																						X		
245136007	2	05:53																						X		
245136008	2	05:57																						X		
245136009	2	06:00																						X		
245136010	2	06:03																						X		
245136011	2	06:06																						X		
245136012	2	06:09																						X		
245136013	2	06:12																						X		
CCV02	1	06:15																						X		
CCB02	1	06:18																						X		

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 03-FEB-10

End Date: 03-FEB-10

Client Sdg: 10-1303

Method P

Data File: 020310-1

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	09:19	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S0.1	1	09:26		X		X		X		X	X	X		X		X			X		X				X	X
S0.5	1	09:33	X	X		X		X	X	X	X	X		X	X	X			X		X				X	X
SCAL	1	09:39	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S10	1	09:47	X					X					X		X							X				
ICV01	1	09:52	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICB01	1	09:59	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
PQL01	1	10:06	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSA01	1	10:13	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICSAB01	1	10:19	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR01	1	10:26	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR02	1	10:33	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV01	1	10:40	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB01	1	10:47	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR03	1	10:55	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV02	1	11:01	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB02	1	11:08	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	11:15																								
ZZZZZZ	1	11:22																								
ZZZZZZ	1	11:29																								
ZZZZZZ	1	11:36																								
ZZZZZZ	1	11:42																								
ZZZZZZ	1	11:49																								
ZZZZZZ	1	11:56																								
ZZZZZZ	1	12:03																								
ZZZZZZ	1	12:09																								
ZZZZZZ	1	12:16																								
CCV03	1	12:23	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB03	1	12:30	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	5	12:37																								
ZZZZZZ	5	12:43																								
ZZZZZZ	5	12:50																								
ZZZZZZ	5	12:57																								
ZZZZZZ	5	13:04																								
ZZZZZZ	25	13:11																								
CCV04	1	13:18	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
PQL02	1	13:24	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB04	1	13:31	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	13:48																								
ZZZZZZ	1	13:54																								

Samp No.	D/F	Run Time																								
ZZZZZZ	1	14:01																								
ZZZZZZ	1	14:08																								
CCV05	1	14:15	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
CCB05	1	14:22	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
ZZZZZZ	1	14:29																								
ZZZZZZ	1	14:36																								
ZZZZZZ	1	14:43																								
ZZZZZZ	1	14:50																								
ZZZZZZ	5	14:57																								
ZZZZZZ	1	15:03																								
ZZZZZZ	1	15:10																								
CCV06	1	15:18	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
CCB06	1	15:24	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
CCV07	1	15:55	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
CCB07	1	16:02	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
ZZZZZZ	1	16:09																								
ZZZZZZ	1	16:16																								
ZZZZZZ	1	16:22																								
ZZZZZZ	1	16:29																								
ZZZZZZ	1	16:37																								
ZZZZZZ	1	16:43																								
ZZZZZZ	5	16:50																								
ZZZZZZ	1	16:57																								
ZZZZZZ	1	17:04																								
CCV08	1	17:11	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
CCB08	1	17:18	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
ZZZZZZ	1	17:25																								
ZZZZZZ	1	17:32																								
ZZZZZZ	1	17:39																								
ZZZZZZ	1	17:46																								
ZZZZZZ	1	17:53																								
ZZZZZZ	1	18:00																								
ZZZZZZ	1	18:07																								
ZZZZZZ	1	18:14																								
CCV09	1	18:21	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
CCB09	1	18:28	X	X		X		X	X	X	X	X	X	X	X			X		X	X			X	X	
ZZZZZZ	1	18:35																								
ZZZZZZ	1	18:42																								
ZZZZZZ	1	18:48																								
ZZZZZZ	1	18:55																								

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	19:02																								
ZZZZZZ	1	19:09																								
ZZZZZZ	1	19:16																								
ZZZZZZ	5	19:23																								
ZZZZZZ	1	19:30																								
CCV10	1	19:37	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB10	1	19:44	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	19:51																								
ZZZZZZ	1	19:58																								
ZZZZZZ	1	20:05																								
ZZZZZZ	1	20:12																								
ZZZZZZ	1	20:19																								
ZZZZZZ	1	20:26																								
ZZZZZZ	1	20:34																								
ZZZZZZ	1	20:41																								
ZZZZZZ	1	20:48																								
ZZZZZZ	1	20:55																								
CCV11	1	21:02	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB11	1	21:09	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202021571	1	21:15	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202021576	1	21:22	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
245136001	1	21:28	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202021572	1	21:35	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202021574	1	21:43	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202021575	1	21:50	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
1202021573	5	21:57	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
245136002	1	22:04	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
245136003	1	22:11	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV12	1	22:18	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB12	1	22:25	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
245136004	1	22:32	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
245136005	1	22:39	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
245136006	1	22:46	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
245136007	1	22:53	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
245136008	1	23:00	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
245136009	1	23:07	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
245136010	1	23:14	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
245136011	1	23:21	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
245136012	1	23:28	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
245136013	1	23:35	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time																									
CCV13	1	23:42	X	X		X		X	X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB13	1	23:49	X	X		X		X	X	X	X	X	X	X	X	X	X			X		X	X			X	X

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: HG3

Start Date: 04-FEB-10

End Date: 04-FEB-10

Client Sdg: 10-1303

Method: AV

Data File: 020410S1-4

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	08:46															X									
S0.2	1	08:48															X									
S0.5	1	08:50															X									
S2.0	1	08:52															X									
S5.0	1	08:54															X									
S10.0	1	08:56															X									
ICV01	1	08:58															X									
ICB01	1	09:00															X									
CRDL01	1	09:01															X									
CCV01	1	09:03															X									
CCB01	1	09:05															X									
ZZZZZZ	1	09:07																								
ZZZZZZ	10	09:09																								
ZZZZZZ	1	09:11																								
ZZZZZZ	1	09:13																								
ZZZZZZ	1	09:15																								
ZZZZZZ	1	09:17																								
ZZZZZZ	5	09:19																								
ZZZZZZ	1	09:21																								
ZZZZZZ	1	09:23																								
ZZZZZZ	1	09:25																								
CCV02	1	09:26															X									
CCB02	1	09:28															X									
ZZZZZZ	1	09:30																								
ZZZZZZ	1	09:32																								
ZZZZZZ	1	09:34																								
ZZZZZZ	1	09:36																								
ZZZZZZ	1	09:38																								
ZZZZZZ	1	09:40																								
ZZZZZZ	1	09:42																								
ZZZZZZ	1	09:44																								
ZZZZZZ	1	09:46																								
ZZZZZZ	1	09:48																								
CCV03	1	09:50															X									
CCB03	1	09:51															X									
ZZZZZZ	1	09:53																								
ZZZZZZ	1	09:55																								
ZZZZZZ	1	09:57																								
ZZZZZZ	10	09:59																								
ZZZZZZ	1	10:01																								

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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	11:20																								
CCV07	1	11:22															X									
CCB07	1	11:24															X									
ZZZZZZ	1	11:26																								
ZZZZZZ	1	11:28																								
ZZZZZZ	1	11:30																								
ZZZZZZ	5	11:32																								
ZZZZZZ	1	11:34																								
ZZZZZZ	1	11:36																								
ZZZZZZ	1	11:38																								
ZZZZZZ	1	11:40																								
ZZZZZZ	1	11:42																								
ZZZZZZ	1	11:44																								
CCV08	1	11:45															X									
CCB08	1	11:47															X									
ZZZZZZ	1	11:49																								
ZZZZZZ	1	11:51																								
ZZZZZZ	1	11:53																								
ZZZZZZ	1	11:55																								
ZZZZZZ	1	11:57																								
ZZZZZZ	10	11:59																								
ZZZZZZ	1	12:01																								
ZZZZZZ	1	12:03																								
ZZZZZZ	1	12:05																								
ZZZZZZ	1	12:07																								
CCV09	1	12:09															X									
CCB09	1	12:11															X									
ZZZZZZ	1	12:13																								
ZZZZZZ	1	12:15																								
ZZZZZZ	1	12:16																								
ZZZZZZ	1	12:18																								
ZZZZZZ	1	12:20																								
ZZZZZZ	5	12:22																								
ZZZZZZ	1	12:24																								
ZZZZZZ	1	12:26																								
ZZZZZZ	1	12:28																								
ZZZZZZ	1	12:30																								
CCV10	1	12:32															X									
CCB10	1	12:34															X									
ZZZZZZ	1	12:36																								

SW846

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
ZZZZZZ	1	13:56																								
ZZZZZZ	1	13:58																								
ZZZZZZ	1	14:00																								
ZZZZZZ	1	14:02																								
ZZZZZZ	1	14:04																								
CCV14	1	14:06															X									
CCB14	1	14:08															X									
ZZZZZZ	1	14:10																								
ZZZZZZ	1	14:12																								
ZZZZZZ	1	14:14																								
ZZZZZZ	1	14:16																								
ZZZZZZ	1	14:18																								
ZZZZZZ	1	14:20																								
ZZZZZZ	1	14:22																								
ZZZZZZ	1	14:24																								
ZZZZZZ	1	14:26																								
ZZZZZZ	5	14:28																								
CCV15	1	14:29															X									
CCB15	1	14:31															X									
ZZZZZZ	1	14:33																								
CCV16	1	14:35															X									
CCB16	1	14:37															X									
ZZZZZZ	10	14:43																								
245136010	2	14:45															X									
ZZZZZZ	10	14:47																								
ZZZZZZ	10	14:49																								
ZZZZZZ	10	14:51																								
CCV17	1	14:53															X									
CCB17	1	14:55															X									

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1303

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP/MS	<u>Analyte</u>	<u>Wavelength (nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
SOLID	Aluminum		15.0	50
	Antimony		0.5	3
	Arsenic		1.0	5
	Barium		0.5	2
	Beryllium		0.1	.5
	Cadmium		0.1	1
	Calcium		33.0	100
	Chromium		1.0	3
	Cobalt		0.3	1
	Copper		0.33	1
	Iron		25.0	100
	Lead		0.5	2
	Magnesium		7.5	25
	Manganese		1.0	5
	Nickel		0.5	2
	Potassium		80.0	300
	Selenium		2.5	5
	Silver		0.2	1
	Sodium		80.0	250
	Thallium		0.3	1
	Uranium		0.066	.2
	Vanadium		2.0	10
	Zinc		2.0	10

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1303

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. 10-1303

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: GEL

GEL Job No: 10-1303

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Aluminum	Antimony	Arsenic	Barium	Beryllium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.02697	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	-0.48147	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.21356	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.05186	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.18741	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1303

Contract: L:ANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Boron	Cadmium	Chromium	Cobalt	Copper
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	2.85580	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.44491	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	-29.9151	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.57616
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.60374	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	198.62
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	4.37985	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.36147	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	2.23785	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.36818	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.35273

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1303**

Contract: LANL01004

Instrument: OPTIMA3

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

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Iron	Lead	Magnesium	Manganese	Molybdenum
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	48.4946
Antimony	206.836	-0.02515	0.00000	0.00000	0.00000	-20.5057
Arsenic	188.979	-0.23424	0.00000	0.00000	0.00000	2.41902
Barium	233.527	-0.03042	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.16240	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.10329	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	-0.01944	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.01444	0.00000	0.00000	0.00000	-2.33100
Copper	324.752	-0.05293	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.09554	0.00000	0.00000	0.00000	-2.48774
Magnesium	279.077	1.04597	0.00000	0.00000	0.00000	-10.4683
Manganese	257.61	-0.09877	0.00000	0.04089	0.00000	0.00000
Molybdenum	202.031	-0.07763	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.80543	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.39429	1.18725
Selenium	196.026	-3.27508	0.00000	0.00000	0.00000	-3.07287
Silica	251.611	0.00000	0.00000	0.00000	0.00000	27.2377
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	12.3082
Silver	328.068	-0.32385	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-4.77918	0.00000
Tin	189.927	-0.01682	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.08168	0.00000	0.00000
Uranium	409.014	0.11400	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.14564	0.00000	-0.01931	0.00000	-14.1293
Zinc	213.857	0.09701	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1303

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Nickel	Phosphorous	Potassium	Selenium	Silica
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	-0.84443	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	-0.63547	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	6.37026	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1303**

Contract: LANL01004

Instrument: OPTIMA3

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

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Silicon	Silver	Strontium	Sulfur	Thallium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1303

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
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Linear Ranges

SDG NO. 10-1303

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS6

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	1	50000	ug/L	01-NOV-09
Antimony	1000	250	ug/L	01-NOV-09
Arsenic	1000	1000	ug/L	01-NOV-09
Barium	1000	1000	ug/L	01-NOV-09
Beryllium	1000	1000	ug/L	01-NOV-09
Cadmium	1000	1000	ug/L	01-NOV-09
Calcium	500	50000	ug/L	01-NOV-09
Chromium	1000	1000	ug/L	01-NOV-09
Cobalt	1000	1000	ug/L	01-NOV-09
Copper	1000	1000	ug/L	01-NOV-09
Iron	500	50000	ug/L	01-NOV-09
Lead	1000	5000	ug/L	01-NOV-09
Magnesium	1	50000	ug/L	01-NOV-09
Manganese	1000	1000	ug/L	01-NOV-09
Nickel	1000	1000	ug/L	01-NOV-09
Potassium	1	50000	ug/L	01-NOV-09
Selenium	1000	500	ug/L	01-NOV-09
Silver	1000	250	ug/L	01-NOV-09
Sodium	1	50000	ug/L	01-NOV-09
Thallium	1000	500	ug/L	01-NOV-09
Uranium	1000	5000	ug/L	01-NOV-09
Vanadium	1000	100	ug/L	01-NOV-09
Zinc	1000	2500	ug/L	01-NOV-09

METALS
-12-
Linear Ranges

SDG NO. 10-1303

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>
Sodium	20	500000	ug/L	01-NOV-09
Thallium	20	10000	ug/L	01-NOV-09
Uranium	20	15000	ug/L	01-NOV-09
Vanadium	20	10000	ug/L	01-NOV-09
Zinc	20	15000	ug/L	01-NOV-09
Silver	20	1000	ug/L	01-NOV-09
Antimony	20	10000	ug/L	01-NOV-09
Arsenic	20	10000	ug/L	01-NOV-09
Barium	20	15000	ug/L	01-NOV-09
Beryllium	20	3000	ug/L	01-NOV-09
Cadmium	20	10000	ug/L	01-NOV-09
Calcium	20	500000	ug/L	01-NOV-09
Aluminum	20	500000	ug/L	01-NOV-09
Chromium	20	25000	ug/L	01-NOV-09
Cobalt	20	10000	ug/L	01-NOV-09
Copper	20	20000	ug/L	01-NOV-09
Iron	20	500000	ug/L	01-NOV-09
Lead	20	25000	ug/L	01-NOV-09
Magnesium	20	500000	ug/L	01-NOV-09
Manganese	20	10000	ug/L	01-NOV-09
Nickel	20	10000	ug/L	01-NOV-09
Potassium	20	300000	ug/L	01-NOV-09
Selenium	20	10000	ug/L	01-NOV-09

Raw Data

2/3/2010 09:18:04 Hg ReAlign... Actual peak offset (nm): -0.009
Drift (nm): 0.000 Slit adjustment: -2

Analysis Begun

Start Time: 2/3/2010 09:19:31

Plasma On Time: 2/1/2010 05:43:14

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601 Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\020310.sif

Batch ID:

Results Data Set: 020310

Results Library: C:\pe\Optima3\Results\Results.mdb

Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 2/2/2010 10:13:57

IEC File: 011110.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153 Radial	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 317.933 Radial	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: 2/3/2010 09:19:32

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0

Net	Corrected	Calib.	Analysis
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Repl#	Analyte	Intensity	Intensity	Conc. Units	Time
1	Sc Radial	3976.5	3976.5	0.000 %	09:21:45
1	Y RADIAL	4603.7	4603.7	0.000 %	09:21:25
1	Al 396.153Radial†	-197.3	-196.5	[0.00] ug/L	09:21:25
1	Ca 317.933Radial†	14.5	14.4	[0.00] ug/L	09:21:45
1	Fe 238.204 Radial†	11.0	10.9	[0.00] ug/L	09:21:45
1	K 766.490 Radial†	3040.5	3027.9	[0.00] ug/L	09:21:25
1	Mg 279.077 IEC†	3.5	3.5	[0.00] ug/L	09:21:45
1	Na 589.592 Radial†	-1553.5	-1547.0	[0.00] ug/L	09:21:25
1	Sr 421.552†	-1.7	-1.7	[0.00] ug/L	09:21:25
1	Sc 361.383	863272.1	863272.1	0.0000 %	09:22:42
1	Y 371.029	679326.9	679326.9	0.0000 %	09:22:42
1	Ag 328.068†	420.6	421.3	[0.00] ug/L	09:22:42
1	As 188.979†	-38.7	-38.8	[0.00] ug/L	09:23:02
1	B 249.677†	-612.8	-613.9	[0.00] ug/L	09:23:02
1	Ba 233.527†	-11.2	-11.2	[0.00] ug/L	09:23:02
1	Be 313.107†	-3942.2	-3949.0	[0.00] ug/L	09:22:42
1	Cd 226.502†	-209.8	-210.1	[0.00] ug/L	09:23:02
1	Co 228.616†	-85.5	-85.7	[0.00] ug/L	09:23:02
1	Cr 267.716†	70.9	71.1	[0.00] ug/L	09:22:42
1	Cu 324.752†	6918.4	6930.3	[0.00] ug/L	09:22:42
1	Mn 257.610†	503.4	504.2	[0.00] ug/L	09:23:02
1	Mo 202.031†	1.5	1.5	[0.00] ug/L	09:23:02
1	Ni 231.604†	98.4	98.6	[0.00] ug/L	09:23:02
1	P 214.914†	230.7	231.1	[0.00] ug/L	09:23:02
1	Pb 220.353†	-65.0	-65.1	[0.00] ug/L	09:23:02
1	S 181.975 Axial†	52.7	52.8	[0.00] ug/L	09:23:02
1	Sb 206.836†	33.9	33.9	[0.00] ug/L	09:23:02
1	Se 196.026†	-33.0	-33.0	[0.00] ug/L	09:23:02
1	Si 251.611†	495.7	496.5	[0.00] ug/L	09:23:02
1	Sn 189.927†	16.8	16.8	[0.00] ug/L	09:23:02
1	Ti 334.940†	-1640.8	-1643.6	[0.00] ug/L	09:22:42
1	Tl 190.801†	-37.0	-37.0	[0.00] ug/L	09:23:02
1	U 409.014†	-4301.1	-4308.5	[0.00] ug/L	09:22:42
1	V 292.402†	-1717.8	-1720.8	[0.00] ug/L	09:22:42
1	Zn 213.857†	746.0	747.3	[0.00] ug/L	09:23:02
1	SiO2†	505.5	506.3	[0.00] ug/L	09:23:58
2	Sc Radial	3962.9	3962.9	0.000 %	09:22:10
2	Y RADIAL	4469.0	4469.0	0.000 %	09:21:50
2	Al 396.153Radial†	-195.9	-195.8	[0.00] ug/L	09:21:50
2	Ca 317.933Radial†	16.8	16.8	[0.00] ug/L	09:22:10
2	Fe 238.204 Radial†	14.2	14.2	[0.00] ug/L	09:22:10
2	K 766.490 Radial†	3012.9	3010.6	[0.00] ug/L	09:21:50
2	Mg 279.077 IEC†	1.8	1.8	[0.00] ug/L	09:22:10
2	Na 589.592 Radial†	-1683.4	-1682.2	[0.00] ug/L	09:21:50
2	Sr 421.552†	-0.7	-0.7	[0.00] ug/L	09:21:50
2	Sc 361.383	864968.3	864968.3	0.0000 %	09:23:07
2	Y 371.029	682935.6	682935.6	0.0000 %	09:23:07
2	Ag 328.068†	465.0	464.9	[0.00] ug/L	09:23:07
2	As 188.979†	-37.0	-37.0	[0.00] ug/L	09:23:28
2	B 249.677†	-587.5	-587.4	[0.00] ug/L	09:23:28
2	Ba 233.527†	-24.7	-24.7	[0.00] ug/L	09:23:28
2	Be 313.107†	-3933.8	-3932.9	[0.00] ug/L	09:23:07
2	Cd 226.502†	-178.3	-178.3	[0.00] ug/L	09:23:28
2	Co 228.616†	-91.4	-91.4	[0.00] ug/L	09:23:28
2	Cr 267.716†	66.0	66.0	[0.00] ug/L	09:23:07
2	Cu 324.752†	6794.0	6792.3	[0.00] ug/L	09:23:07
2	Mn 257.610†	493.4	493.3	[0.00] ug/L	09:23:28
2	Mo 202.031†	0.3	0.3	[0.00] ug/L	09:23:28
2	Ni 231.604†	76.2	76.2	[0.00] ug/L	09:23:28
2	P 214.914†	223.2	223.2	[0.00] ug/L	09:23:28
2	Pb 220.353†	-77.7	-77.7	[0.00] ug/L	09:23:28
2	S 181.975 Axial†	51.1	51.1	[0.00] ug/L	09:23:28
2	Sb 206.836†	39.2	39.2	[0.00] ug/L	09:23:28
2	Se 196.026†	-25.3	-25.2	[0.00] ug/L	09:23:28
2	Si 251.611†	483.0	482.8	[0.00] ug/L	09:23:28
2	Sn 189.927†	17.1	17.1	[0.00] ug/L	09:23:28
2	Ti 334.940†	-1676.1	-1675.7	[0.00] ug/L	09:23:07
2	Tl 190.801†	-50.1	-50.1	[0.00] ug/L	09:23:28
2	U 409.014†	-4297.7	-4296.6	[0.00] ug/L	09:23:07
2	V 292.402†	-1743.9	-1743.5	[0.00] ug/L	09:23:07

2	Zn 213.857†	748.0	747.8	[0.00]	ug/L	09:23:28
2	SiO2†	553.3	553.2	[0.00]	ug/L	09:24:03
3	Sc Radial	3940.5	3940.5	0.000	%	09:22:35
3	Y RADIAL	4542.6	4542.6	0.000	%	09:22:15
3	Al 396.153Radial†	-194.2	-195.2	[0.00]	ug/L	09:22:15
3	Ca 317.933Radial†	17.6	17.7	[0.00]	ug/L	09:22:35
3	Fe 238.204 Radial†	10.3	10.3	[0.00]	ug/L	09:22:35
3	K 766.490 Radial†	3038.6	3053.6	[0.00]	ug/L	09:22:15
3	Mg 279.077 IEC†	4.6	4.6	[0.00]	ug/L	09:22:35
3	Na 589.592 Radial†	-1518.7	-1526.2	[0.00]	ug/L	09:22:15
3	Sr 421.552†	3.7	3.7	[0.00]	ug/L	09:22:15
3	Sc 361.383	866043.5	866043.5	0.0000	%	09:23:33
3	Y 371.029	684013.2	684013.2	0.0000	%	09:23:33
3	Ag 328.068†	419.8	419.2	[0.00]	ug/L	09:23:33
3	As 188.979†	-30.6	-30.6	[0.00]	ug/L	09:23:53
3	B 249.677†	-620.1	-619.1	[0.00]	ug/L	09:23:53
3	Ba 233.527†	-18.2	-18.2	[0.00]	ug/L	09:23:53
3	Be 313.107†	-3956.2	-3950.3	[0.00]	ug/L	09:23:33
3	Cd 226.502†	-210.8	-210.5	[0.00]	ug/L	09:23:53
3	Co 228.616†	-82.2	-82.1	[0.00]	ug/L	09:23:53
3	Cr 267.716†	130.3	130.1	[0.00]	ug/L	09:23:33
3	Cu 324.752†	6832.3	6822.2	[0.00]	ug/L	09:23:33
3	Mn 257.610†	480.5	479.8	[0.00]	ug/L	09:23:53
3	Mo 202.031†	6.7	6.7	[0.00]	ug/L	09:23:53
3	Ni 231.604†	74.9	74.8	[0.00]	ug/L	09:23:53
3	P 214.914†	249.4	249.1	[0.00]	ug/L	09:23:53
3	Pb 220.353†	-70.9	-70.8	[0.00]	ug/L	09:23:53
3	S 181.975 Axial†	52.0	51.9	[0.00]	ug/L	09:23:53
3	Sb 206.836†	33.6	33.5	[0.00]	ug/L	09:23:53
3	Se 196.026†	-30.3	-30.3	[0.00]	ug/L	09:23:53
3	Si 251.611†	490.0	489.3	[0.00]	ug/L	09:23:53
3	Sn 189.927†	19.1	19.1	[0.00]	ug/L	09:23:53
3	Ti 334.940†	-1767.1	-1764.5	[0.00]	ug/L	09:23:33
3	Tl 190.801†	-42.6	-42.5	[0.00]	ug/L	09:23:53
3	U 409.014†	-4375.6	-4369.2	[0.00]	ug/L	09:23:33
3	V 292.402†	-1661.7	-1659.2	[0.00]	ug/L	09:23:33
3	Zn 213.857†	741.2	740.1	[0.00]	ug/L	09:23:53
3	SiO2†	538.6	537.8	[0.00]	ug/L	09:24:08

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	864761.3	1397.26	0.16%	0.0000 %
Sc Radial	3960.0	18.16	0.46%	0.000 %
Y 371.029	682091.9	2454.41	0.36%	0.0000 %
Y RADIAL	4538.4	67.41	1.49%	0.000 %
Ag 328.068†	435.1	25.78	5.92%	[0.00] ug/L
Al 396.153Radial†	-195.8	0.64	0.32%	[0.00] ug/L
As 188.979†	-35.5	4.29	12.11%	[0.00] ug/L
B 249.677†	-606.8	17.03	2.81%	[0.00] ug/L
Ba 233.527†	-18.0	6.75	37.45%	[0.00] ug/L
Be 313.107†	-3944.1	9.72	0.25%	[0.00] ug/L
Ca 317.933Radial†	16.3	1.68	10.34%	[0.00] ug/L
Cd 226.502†	-199.6	18.51	9.27%	[0.00] ug/L
Co 228.616†	-86.4	4.68	5.41%	[0.00] ug/L
Cr 267.716†	89.0	35.64	40.02%	[0.00] ug/L
Cu 324.752†	6848.3	72.58	1.06%	[0.00] ug/L
Fe 238.204 Radial†	11.8	2.06	17.43%	[0.00] ug/L
K 766.490 Radial†	3030.7	21.61	0.71%	[0.00] ug/L
Mg 279.077 IEC†	3.3	1.41	42.90%	[0.00] ug/L
Mn 257.610†	492.4	12.23	2.48%	[0.00] ug/L
Mo 202.031†	2.8	3.43	121.56%	[0.00] ug/L
Na 589.592 Radial†	-1585.1	84.67	5.34%	[0.00] ug/L
Ni 231.604†	83.2	13.35	16.04%	[0.00] ug/L
P 214.914†	234.5	13.26	5.66%	[0.00] ug/L
Pb 220.353†	-71.2	6.32	8.88%	[0.00] ug/L
S 181.975 Axial†	51.9	0.88	1.70%	[0.00] ug/L
Sb 206.836†	35.5	3.14	8.83%	[0.00] ug/L
Se 196.026†	-29.5	3.94	13.35%	[0.00] ug/L
Si 251.611†	489.5	6.84	1.40%	[0.00] ug/L

Sn 189.927†	17.6	1.25	7.09%	[0.00] ug/L
Sr 421.552†	0.4	2.88	656.39%	[0.00] ug/L
Ti 334.940†	-1694.6	62.63	3.70%	[0.00] ug/L
Tl 190.801†	-43.2	6.58	15.22%	[0.00] ug/L
U 409.014†	-4324.8	38.90	0.90%	[0.00] ug/L
V 292.402†	-1707.8	43.60	2.55%	[0.00] ug/L
Zn 213.857†	745.1	4.28	0.57%	[0.00] ug/L
SiO2†	532.4	23.86	4.48%	[0.00] ug/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 2/3/2010 09:26:19
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc Radial	4039.9	4039.9	102 %		09:28:32
1	Y RADIAL	4455.6	4455.6	98.17 %		09:28:32
1	K 766.490 Radial†	8786.2	5581.7	[1000] ug/L		09:28:12
1	Sr 421.552†	14782.4	14489.7	[100] ug/L		09:28:32
1	Sc 361.383	856692.1	856692.1	99.067 %		09:29:29
1	Y 371.029	674426.9	674426.9	98.876 %		09:29:29
1	Ag 328.068†	21866.3	21637.2	[100] ug/L		09:29:29
1	As 188.979†	234.9	272.5	[100] ug/L		09:29:49
1	B 249.677†	3793.4	4435.9	[100] ug/L		09:29:29
1	Ba 233.527†	13069.7	13210.8	[100] ug/L		09:29:29
1	Be 313.107†	279434.2	286010.3	[100] ug/L		09:29:29
1	Cd 226.502†	9014.1	9298.6	[100] ug/L		09:29:49
1	Co 228.616†	5210.4	5345.9	[100] ug/L		09:29:49
1	Cr 267.716†	9271.6	9269.8	[100] ug/L		09:29:29
1	Cu 324.752†	40667.5	34202.3	[100] ug/L		09:29:29
1	Mn 257.610†	97474.0	97899.7	[100] ug/L		09:29:29
1	Mo 202.031†	1458.3	1469.2	[100] ug/L		09:29:49
1	Ni 231.604†	4401.9	4360.2	[100] ug/L		09:29:49
1	P 214.914†	1182.0	958.7	[500] ug/L		09:29:49
1	Pb 220.353†	839.9	919.0	[100] ug/L		09:29:49
1	S 181.975 Axial†	207.9	157.9	[200] ug/L		09:29:49
1	Sb 206.836†	357.9	325.7	[100] ug/L		09:29:49
1	Se 196.026†	142.5	173.4	[100] ug/L		09:29:49
1	Si 251.611†	16687.9	16355.6	[500] ug/L		09:29:29
1	Sn 189.927†	610.5	598.6	[100] ug/L		09:29:49
1	Ti 334.940†	62805.8	65092.0	[100] ug/L		09:29:29
1	Tl 190.801†	291.5	337.4	[100] ug/L		09:29:49
1	U 409.014†	-1347.7	2964.3	[100] ug/L		09:29:29
1	V 292.402†	12146.5	13968.7	[100] ug/L		09:29:29
1	Zn 213.857†	11912.0	11279.2	[100] ug/L		09:29:49
1	SiO2†	16942.4	16569.6	[1069.5] ug/L		09:30:45
2	Sc Radial	4070.6	4070.6	103 %		09:28:57
2	Y RADIAL	4482.4	4482.4	98.77 %		09:28:57
2	K 766.490 Radial†	8654.2	5388.4	[1000] ug/L		09:28:37
2	Sr 421.552†	14957.5	14550.7	[100] ug/L		09:28:57
2	Sc 361.383	853707.7	853707.7	98.722 %		09:29:54
2	Y 371.029	672314.4	672314.4	98.567 %		09:29:54
2	Ag 328.068†	21729.9	21576.1	[100] ug/L		09:29:54
2	As 188.979†	218.4	256.6	[100] ug/L		09:30:14
2	B 249.677†	3777.8	4433.5	[100] ug/L		09:29:54
2	Ba 233.527†	13002.0	13188.4	[100] ug/L		09:29:54
2	Be 313.107†	278896.9	286452.0	[100] ug/L		09:29:54
2	Cd 226.502†	9034.2	9350.8	[100] ug/L		09:30:14
2	Co 228.616†	5200.2	5353.9	[100] ug/L		09:30:14
2	Cr 267.716†	9221.4	9251.7	[100] ug/L		09:29:54
2	Cu 324.752†	40535.4	34211.9	[100] ug/L		09:29:54
2	Mn 257.610†	96966.2	97729.3	[100] ug/L		09:29:54
2	Mo 202.031†	1449.2	1465.2	[100] ug/L		09:30:14
2	Ni 231.604†	4388.2	4361.8	[100] ug/L		09:30:14
2	P 214.914†	1178.7	959.5	[500] ug/L		09:30:14
2	Pb 220.353†	832.1	914.0	[100] ug/L		09:30:14
2	S 181.975 Axial†	209.4	160.2	[200] ug/L		09:30:14
2	Sb 206.836†	348.8	317.7	[100] ug/L		09:30:14
2	Se 196.026†	147.8	179.2	[100] ug/L		09:30:14
2	Si 251.611†	16701.7	16428.4	[500] ug/L		09:29:54
2	Sn 189.927†	612.0	602.3	[100] ug/L		09:30:14
2	Ti 334.940†	62502.7	65006.5	[100] ug/L		09:29:54
2	Tl 190.801†	307.4	354.6	[100] ug/L		09:30:14
2	U 409.014†	-1120.6	3189.7	[100] ug/L		09:29:54

2	V 292.402†	12177.8	14043.3	[100]	ug/L	09:29:54
2	Zn 213.857†	11901.4	11310.4	[100]	ug/L	09:30:14
2	SiO2†	17000.0	16687.7	[1069.5]	ug/L	09:30:50
3	Sc Radial	4079.2	4079.2	103	%	09:29:22
3	Y RADIAL	4489.0	4489.0	98.91	%	09:29:22
3	K 766.490 Radial†	8982.8	5689.6	[1000]	ug/L	09:29:02
3	Sr 421.552†	14968.4	14530.6	[100]	ug/L	09:29:22
3	Sc 361.383	860452.6	860452.6	99.502	%	09:30:20
3	Y 371.029	678086.6	678086.6	99.413	%	09:30:20
3	Ag 328.068†	21994.8	21669.8	[100]	ug/L	09:30:20
3	As 188.979†	222.6	259.2	[100]	ug/L	09:30:40
3	B 249.677†	3785.3	4411.1	[100]	ug/L	09:30:20
3	Ba 233.527†	13197.1	13281.3	[100]	ug/L	09:30:20
3	Be 313.107†	282052.5	287409.0	[100]	ug/L	09:30:20
3	Cd 226.502†	9080.9	9326.0	[100]	ug/L	09:30:40
3	Co 228.616†	5212.4	5324.9	[100]	ug/L	09:30:40
3	Cr 267.716†	9279.0	9236.4	[100]	ug/L	09:30:20
3	Cu 324.752†	40817.7	34173.8	[100]	ug/L	09:30:20
3	Mn 257.610†	97878.5	97876.2	[100]	ug/L	09:30:20
3	Mo 202.031†	1450.8	1455.2	[100]	ug/L	09:30:40
3	Ni 231.604†	4407.2	4346.0	[100]	ug/L	09:30:40
3	P 214.914†	1194.0	965.5	[500]	ug/L	09:30:40
3	Pb 220.353†	805.0	880.2	[100]	ug/L	09:30:40
3	S 181.975 Axial†	217.8	167.0	[200]	ug/L	09:30:40
3	Sb 206.836†	364.0	330.3	[100]	ug/L	09:30:40
3	Se 196.026†	147.7	178.0	[100]	ug/L	09:30:40
3	Si 251.611†	16784.8	16379.3	[500]	ug/L	09:30:20
3	Sn 189.927†	620.3	605.8	[100]	ug/L	09:30:40
3	Ti 334.940†	63111.2	65121.8	[100]	ug/L	09:30:20
3	Tl 190.801†	305.8	350.5	[100]	ug/L	09:30:40
3	U 409.014†	-1155.6	3163.4	[100]	ug/L	09:30:20
3	V 292.402†	12332.0	14101.6	[100]	ug/L	09:30:20
3	Zn 213.857†	11942.2	11256.9	[100]	ug/L	09:30:40
3	SiO2†	16700.0	16251.2	[1069.5]	ug/L	09:30:55

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	856950.8	3379.89	0.39%	99.097	%
Sc Radial	4063.2	20.67	0.51%	103	%
Y 371.029	674942.6	2920.46	0.43%	98.952	%
Y RADIAL	4475.7	17.71	0.40%	98.62	%
Ag 328.068†	21627.7	47.58	0.22%	[100]	ug/L
As 188.979†	262.8	8.53	3.25%	[100]	ug/L
B 249.677†	4426.8	13.72	0.31%	[100]	ug/L
Ba 233.527†	13226.8	48.46	0.37%	[100]	ug/L
Be 313.107†	286623.8	714.98	0.25%	[100]	ug/L
Cd 226.502†	9325.1	26.09	0.28%	[100]	ug/L
Co 228.616†	5341.6	14.98	0.28%	[100]	ug/L
Cr 267.716†	9252.7	16.73	0.18%	[100]	ug/L
Cu 324.752†	34196.0	19.84	0.06%	[100]	ug/L
K 766.490 Radial†	5553.2	152.64	2.75%	[1000]	ug/L
Mn 257.610†	97835.1	92.36	0.09%	[100]	ug/L
Mo 202.031†	1463.2	7.19	0.49%	[100]	ug/L
Ni 231.604†	4356.0	8.67	0.20%	[100]	ug/L
P 214.914†	961.2	3.71	0.39%	[500]	ug/L
Pb 220.353†	904.4	21.13	2.34%	[100]	ug/L
S 181.975 Axial†	161.7	4.73	2.92%	[200]	ug/L
Sb 206.836†	324.6	6.34	1.95%	[100]	ug/L
Se 196.026†	176.8	3.07	1.74%	[100]	ug/L
Si 251.611†	16387.7	37.13	0.23%	[500]	ug/L
Sn 189.927†	602.2	3.59	0.60%	[100]	ug/L
Sr 421.552†	14523.7	31.08	0.21%	[100]	ug/L
Ti 334.940†	65073.4	59.84	0.09%	[100]	ug/L
Tl 190.801†	347.5	8.97	2.58%	[100]	ug/L
U 409.014†	3105.8	123.21	3.97%	[100]	ug/L
V 292.402†	14037.9	66.58	0.47%	[100]	ug/L
Zn 213.857†	11282.2	26.88	0.24%	[100]	ug/L
SiO2†	16502.8	225.79	1.37%	[1069.5]	ug/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 2/3/2010 09:33:06
 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	3903.2	3903.2	98.6 %	09:35:19
1	Y RADIAL	4509.8	4509.8	99.37 %	09:34:59
1	Al 396.153Radial†	5657.4	5935.6	[5000] ug/L	09:34:59
1	Ca 317.933Radial†	2567.3	2588.4	[5000] ug/L	09:35:19
1	K 766.490 Radial†	31694.7	29125.3	[5000] ug/L	09:34:59
1	Mg 279.077 IEC†	122.7	121.2	[5000] ug/L	09:35:19
1	Sr 421.552†	74572.2	75657.3	[500] ug/L	09:34:59
1	Sc 361.383	867484.8	867484.8	100.31 %	09:36:18
1	Y 371.029	673017.9	673017.9	98.670 %	09:36:18
1	Ag 328.068†	107636.9	106863.8	[500] ug/L	09:36:18
1	As 188.979†	1236.6	1268.2	[500] ug/L	09:36:38
1	B 249.677†	22035.5	22573.1	[500] ug/L	09:36:18
1	Ba 233.527†	64394.7	64210.6	[500] ug/L	09:36:18
1	Be 313.107†	1420758.4	1420241.9	[500] ug/L	09:36:18
1	Cd 226.502†	46302.6	46356.8	[500] ug/L	09:36:18
1	Co 228.616†	25732.4	25738.0	[500] ug/L	09:36:38
1	Cr 267.716†	45529.5	45297.5	[500] ug/L	09:36:18
1	Cu 324.752†	176306.4	168904.6	[500] ug/L	09:36:18
1	Mn 257.610†	476034.9	474047.9	[500] ug/L	09:36:18
1	Mo 202.031†	7152.2	7127.0	[500] ug/L	09:36:38
1	Ni 231.604†	21257.9	21108.0	[500] ug/L	09:36:38
1	P 214.914†	4969.7	4719.6	[2500] ug/L	09:36:38
1	Pb 220.353†	4374.4	4431.8	[500] ug/L	09:36:38
1	S 181.975 Axial†	855.7	801.1	[1000] ug/L	09:36:38
1	Sb 206.836†	1593.4	1552.9	[500] ug/L	09:36:38
1	Se 196.026†	871.1	897.8	[500] ug/L	09:36:38
1	Si 251.611†	82838.7	82089.1	[2500] ug/L	09:36:18
1	Sn 189.927†	2995.9	2968.8	[500] ug/L	09:36:38
1	Ti 334.940†	321176.0	321862.2	[500] ug/L	09:36:18
1	Tl 190.801†	1656.8	1694.8	[500] ug/L	09:36:38
1	U 409.014†	10047.1	14340.3	[500] ug/L	09:36:18
1	V 292.402†	67895.9	69390.5	[500] ug/L	09:36:18
1	Zn 213.857†	57637.0	56711.0	[500] ug/L	09:36:18
1	SiO2†	82349.6	81558.6	[5347.5] ug/L	09:37:38
2	Sc Radial	3915.5	3915.5	98.9 %	09:35:44
2	Y RADIAL	4405.6	4405.6	97.07 %	09:35:24
2	Al 396.153Radial†	5536.9	5795.6	[5000] ug/L	09:35:24
2	Ca 317.933Radial†	2579.4	2592.4	[5000] ug/L	09:35:44
2	K 766.490 Radial†	31032.4	28354.4	[5000] ug/L	09:35:24
2	Mg 279.077 IEC†	122.7	120.8	[5000] ug/L	09:35:44
2	Sr 421.552†	72752.8	73579.4	[500] ug/L	09:35:24
2	Sc 361.383	867077.4	867077.4	100.27 %	09:36:45
2	Y 371.029	673163.8	673163.8	98.691 %	09:36:45
2	Ag 328.068†	107255.2	106533.6	[500] ug/L	09:36:45
2	As 188.979†	1236.9	1269.0	[500] ug/L	09:37:05
2	B 249.677†	21898.7	22447.0	[500] ug/L	09:36:45
2	Ba 233.527†	64617.8	64463.3	[500] ug/L	09:36:45
2	Be 313.107†	1419150.0	1419303.2	[500] ug/L	09:36:45
2	Cd 226.502†	46275.3	46351.3	[500] ug/L	09:36:45
2	Co 228.616†	25751.6	25769.2	[500] ug/L	09:37:05
2	Cr 267.716†	45439.5	45229.0	[500] ug/L	09:36:45
2	Cu 324.752†	175632.7	168315.2	[500] ug/L	09:36:45
2	Mn 257.610†	475887.2	474123.5	[500] ug/L	09:36:45
2	Mo 202.031†	7184.2	7162.2	[500] ug/L	09:37:05
2	Ni 231.604†	21266.2	21126.2	[500] ug/L	09:37:05
2	P 214.914†	4984.6	4736.8	[2500] ug/L	09:37:05
2	Pb 220.353†	4363.8	4423.3	[500] ug/L	09:37:05
2	S 181.975 Axial†	848.2	794.0	[1000] ug/L	09:37:05
2	Sb 206.836†	1588.9	1549.1	[500] ug/L	09:37:05

2	Se 196.026†	858.5	885.7	[500]	ug/L	09:37:05
2	Si 251.611†	82700.2	81989.7	[2500]	ug/L	09:36:45
2	Sn 189.927†	2994.2	2968.5	[500]	ug/L	09:37:05
2	Ti 334.940†	321137.6	321974.3	[500]	ug/L	09:36:45
2	Tl 190.801†	1648.7	1687.5	[500]	ug/L	09:37:05
2	U 409.014†	10151.3	14449.0	[500]	ug/L	09:36:45
2	V 292.402†	67840.1	69366.7	[500]	ug/L	09:36:45
2	Zn 213.857†	57489.2	56590.5	[500]	ug/L	09:36:45
2	SiO2†	82561.2	81808.2	[5347.5]	ug/L	09:37:43
3	Sc Radial	3920.1	3920.1	99.0	%	09:36:09
3	Y RADIAL	4452.8	4452.8	98.11	%	09:35:49
3	Al 396.153Radial†	5615.7	5868.7	[5000]	ug/L	09:35:49
3	Ca 317.933Radial†	2568.1	2578.0	[5000]	ug/L	09:36:09
3	K 766.490 Radial†	31460.5	28750.3	[5000]	ug/L	09:35:49
3	Mg 279.077 IEC†	117.1	115.0	[5000]	ug/L	09:36:09
3	Sr 421.552†	73552.4	74301.1	[500]	ug/L	09:35:49
3	Sc 361.383	869022.2	869022.2	100.49	%	09:37:12
3	Y 371.029	675326.1	675326.1	99.008	%	09:37:12
3	Ag 328.068†	107373.4	106411.8	[500]	ug/L	09:37:12
3	As 188.979†	1224.6	1254.0	[500]	ug/L	09:37:33
3	B 249.677†	21978.0	22477.0	[500]	ug/L	09:37:12
3	Ba 233.527†	64486.7	64188.5	[500]	ug/L	09:37:12
3	Be 313.107†	1423756.6	1420719.9	[500]	ug/L	09:37:12
3	Cd 226.502†	46376.9	46349.1	[500]	ug/L	09:37:12
3	Co 228.616†	25609.9	25570.7	[500]	ug/L	09:37:33
3	Cr 267.716†	45538.3	45226.0	[500]	ug/L	09:37:12
3	Cu 324.752†	175784.4	168074.3	[500]	ug/L	09:37:12
3	Mn 257.610†	475646.3	472821.7	[500]	ug/L	09:37:12
3	Mo 202.031†	7119.9	7082.2	[500]	ug/L	09:37:33
3	Ni 231.604†	21164.3	20977.3	[500]	ug/L	09:37:33
3	P 214.914†	4942.1	4683.4	[2500]	ug/L	09:37:33
3	Pb 220.353†	4365.2	4415.0	[500]	ug/L	09:37:33
3	S 181.975 Axial†	854.2	798.1	[1000]	ug/L	09:37:33
3	Sb 206.836†	1594.8	1551.4	[500]	ug/L	09:37:33
3	Se 196.026†	861.6	886.9	[500]	ug/L	09:37:33
3	Si 251.611†	82666.6	81771.7	[2500]	ug/L	09:37:12
3	Sn 189.927†	2976.5	2944.2	[500]	ug/L	09:37:33
3	Ti 334.940†	320603.1	320725.8	[500]	ug/L	09:37:12
3	Tl 190.801†	1652.5	1687.6	[500]	ug/L	09:37:33
3	U 409.014†	10136.1	14411.2	[500]	ug/L	09:37:12
3	V 292.402†	67832.2	69207.4	[500]	ug/L	09:37:12
3	Zn 213.857†	57505.8	56478.8	[500]	ug/L	09:37:12
3	SiO2†	82239.9	81304.2	[5347.5]	ug/L	09:37:48

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	867861.5	1025.62	0.12%	100.36 %
Sc Radial	3912.9	8.74	0.22%	98.8 %
Y 371.029	673835.9	1292.59	0.19%	98.790 %
Y RADIAL	4456.1	52.17	1.17%	98.19 %
Ag 328.068†	106603.0	233.88	0.22%	[500] ug/L
Al 396.153Radial†	5866.7	70.01	1.19%	[5000] ug/L
As 188.979†	1263.8	8.42	0.67%	[500] ug/L
B 249.677†	22499.0	65.90	0.29%	[500] ug/L
Ba 233.527†	64287.5	152.65	0.24%	[500] ug/L
Be 313.107†	1420088.3	720.69	0.05%	[500] ug/L
Ca 317.933Radial†	2586.3	7.46	0.29%	[5000] ug/L
Cd 226.502†	46352.4	3.97	0.01%	[500] ug/L
Co 228.616†	25692.6	106.72	0.42%	[500] ug/L
Cr 267.716†	45250.8	40.44	0.09%	[500] ug/L
Cu 324.752†	168431.4	427.17	0.25%	[500] ug/L
K 766.490 Radial†	28743.3	385.49	1.34%	[5000] ug/L
Mg 279.077 IEC†	119.0	3.51	2.95%	[5000] ug/L
Mn 257.610†	473664.4	730.76	0.15%	[500] ug/L
Mo 202.031†	7123.8	40.12	0.56%	[500] ug/L
Ni 231.604†	21070.5	81.22	0.39%	[500] ug/L
P 214.914†	4713.3	27.27	0.58%	[2500] ug/L
Pb 220.353†	4423.4	8.44	0.19%	[500] ug/L
S 181.975 Axial†	797.7	3.59	0.45%	[1000] ug/L

Sb 206.836†	1551.1	1.90	0.12%	[500]	ug/L
Se 196.026†	890.1	6.69	0.75%	[500]	ug/L
Si 251.611†	81950.2	162.36	0.20%	[2500]	ug/L
Sn 189.927†	2960.5	14.11	0.48%	[500]	ug/L
Sr 421.552†	74512.6	1054.96	1.42%	[500]	ug/L
Ti 334.940†	321520.8	690.75	0.21%	[500]	ug/L
Tl 190.801†	1690.0	4.18	0.25%	[500]	ug/L
U 409.014†	14400.2	55.16	0.38%	[500]	ug/L
V 292.402†	69321.6	99.56	0.14%	[500]	ug/L
Zn 213.857†	56593.4	116.12	0.21%	[500]	ug/L
SiO2†	81557.0	251.98	0.31%	[5347.5]	ug/L

Sequence No.: 4

Sample ID: SCAL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 2/3/2010 09:39:59

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	3908.5	3908.5	98.7 %		09:42:12
1	Y RADIAL	4342.7	4342.7	95.69 %		09:41:52
1	Al 396.153Radial†	11235.7	11579.6	[10000] ug/L		09:41:52
1	Ca 317.933Radial†	5207.6	5260.0	[10000] ug/L		09:41:52
1	Fe 238.204 Radial†	858.1	857.6	[10000] ug/L		09:42:12
1	K 766.490 Radial†	59387.7	57139.9	[10000] ug/L		09:41:52
1	Mg 279.077 IEC†	238.2	238.0	[10000] ug/L		09:42:12
1	Na 589.592 Radial†	32818.7	34836.5	[10000] ug/L		09:41:52
1	Sr 421.552†	145679.7	147599.7	[1000] ug/L		09:41:52
1	Sc 361.383	830279.5	830279.5	96.013 %		09:43:15
1	Y 371.029	650946.5	650946.5	95.434 %		09:43:15
1	Ag 328.068†	213849.7	222295.8	[1000] ug/L		09:43:15
1	As 188.979†	2520.7	2660.9	[1000] ug/L		09:43:35
1	B 249.677†	45031.7	47508.7	[1000] ug/L		09:43:15
1	Ba 233.527†	128441.2	133793.4	[1000] ug/L		09:43:15
1	Be 313.107†	2823002.0	2944186.4	[1000] ug/L		09:43:10
1	Cd 226.502†	92562.5	96606.3	[1000] ug/L		09:43:15
1	Co 228.616†	52145.8	54397.9	[1000] ug/L		09:43:15
1	Cr 267.716†	90807.7	94490.0	[1000] ug/L		09:43:15
1	Cu 324.752†	344357.5	351810.5	[1000] ug/L		09:43:15
1	Mn 257.610†	943402.0	982089.4	[1000] ug/L		09:43:10
1	Mo 202.031†	14216.0	14803.5	[1000] ug/L		09:43:35
1	Ni 231.604†	42820.3	44515.4	[1000] ug/L		09:43:15
1	P 214.914†	9778.7	9950.3	[5000] ug/L		09:43:35
1	Pb 220.353†	8804.1	9240.9	[1000] ug/L		09:43:35
1	S 181.975 Axial†	1650.1	1666.7	[2000] ug/L		09:43:35
1	Sb 206.836†	3193.6	3290.6	[1000] ug/L		09:43:35
1	Se 196.026†	1766.9	1869.8	[1000] ug/L		09:43:35
1	Si 251.611†	163058.9	169341.2	[5000] ug/L		09:43:15
1	Sn 189.927†	6004.0	6235.7	[1000] ug/L		09:43:35
1	Ti 334.940†	626074.2	653769.9	[1000] ug/L		09:43:15
1	Tl 190.801†	3353.7	3536.2	[1000] ug/L		09:43:35
1	U 409.014†	25945.2	31347.4	[1000] ug/L		09:43:15
1	V 292.402†	137958.3	145395.6	[1000] ug/L		09:43:15
1	Zn 213.857†	113952.1	117939.5	[1000] ug/L		09:43:15
1	SiO2†	163273.3	169521.7	[10695] ug/L		09:44:44
2	Sc Radial	3901.9	3901.9	98.5 %		09:42:37
2	Y RADIAL	4421.2	4421.2	97.42 %		09:42:17
2	Al 396.153Radial†	11297.1	11661.2	[10000] ug/L		09:42:17
2	Ca 317.933Radial†	5234.0	5295.8	[10000] ug/L		09:42:17
2	Fe 238.204 Radial†	858.7	859.7	[10000] ug/L		09:42:37
2	K 766.490 Radial†	59811.4	57671.9	[10000] ug/L		09:42:17
2	Mg 279.077 IEC†	236.5	236.8	[10000] ug/L		09:42:37
2	Na 589.592 Radial†	33010.2	35087.2	[10000] ug/L		09:42:17
2	Sr 421.552†	146371.5	148551.9	[1000] ug/L		09:42:17
2	Sc 361.383	834448.1	834448.1	96.495 %		09:43:47
2	Y 371.029	655857.4	655857.4	96.154 %		09:43:47
2	Ag 328.068†	214788.4	222155.9	[1000] ug/L		09:43:47
2	As 188.979†	2501.4	2627.7	[1000] ug/L		09:44:07
2	B 249.677†	45317.1	47570.2	[1000] ug/L		09:43:47
2	Ba 233.527†	128888.1	133588.2	[1000] ug/L		09:43:47
2	Be 313.107†	2842938.8	2950158.8	[1000] ug/L		09:43:41
2	Cd 226.502†	92992.8	96570.6	[1000] ug/L		09:43:47
2	Co 228.616†	52260.4	54245.3	[1000] ug/L		09:43:47
2	Cr 267.716†	91199.0	94423.0	[1000] ug/L		09:43:47
2	Cu 324.752†	345234.3	350927.4	[1000] ug/L		09:43:47
2	Mn 257.610†	947498.1	981425.6	[1000] ug/L		09:43:41
2	Mo 202.031†	14229.4	14743.5	[1000] ug/L		09:44:07
2	Ni 231.604†	42944.9	44421.7	[1000] ug/L		09:43:47

2	P 214.914†	9767.3	9887.6	[5000]	ug/L	09:44:07
2	Pb 220.353†	8779.3	9169.4	[1000]	ug/L	09:44:07
2	S 181.975 Axial†	1659.8	1668.2	[2000]	ug/L	09:44:07
2	Sb 206.836†	3185.2	3265.3	[1000]	ug/L	09:44:07
2	Se 196.026†	1751.5	1844.6	[1000]	ug/L	09:44:07
2	Si 251.611†	163238.2	168678.6	[5000]	ug/L	09:43:47
2	Sn 189.927†	5974.1	6173.4	[1000]	ug/L	09:44:07
2	Ti 334.940†	628409.6	652932.5	[1000]	ug/L	09:43:47
2	Tl 190.801†	3350.5	3515.4	[1000]	ug/L	09:44:07
2	U 409.014†	26097.6	31370.4	[1000]	ug/L	09:43:47
2	V 292.402†	138653.2	145397.9	[1000]	ug/L	09:43:47
2	Zn 213.857†	114270.3	117676.3	[1000]	ug/L	09:43:47
2	SiO2†	163893.4	169314.8	[10695]	ug/L	09:44:49
3	Sc Radial	3922.2	3922.2	99.0	%	09:43:02
3	Y RADIAL	4388.5	4388.5	96.70	%	09:42:42
3	Al 396.153Radial†	11308.0	11612.9	[10000]	ug/L	09:42:42
3	Ca 317.933Radial†	5208.8	5242.8	[10000]	ug/L	09:42:42
3	Fe 238.204 Radial†	861.7	858.2	[10000]	ug/L	09:43:02
3	K 766.490 Radial†	59672.5	57217.5	[10000]	ug/L	09:42:42
3	Mg 279.077 IEC†	240.0	239.0	[10000]	ug/L	09:43:02
3	Na 589.592 Radial†	32906.3	34808.9	[10000]	ug/L	09:42:42
3	Sr 421.552†	145860.2	147266.8	[1000]	ug/L	09:42:42
3	Sc 361.383	833919.0	833919.0	96.433	%	09:44:18
3	Y 371.029	655331.5	655331.5	96.077	%	09:44:18
3	Ag 328.068†	214454.7	221951.1	[1000]	ug/L	09:44:18
3	As 188.979†	2519.4	2648.0	[1000]	ug/L	09:44:38
3	B 249.677†	45460.0	47748.1	[1000]	ug/L	09:44:18
3	Ba 233.527†	129116.1	133909.4	[1000]	ug/L	09:44:18
3	Be 313.107†	2865737.4	2975670.0	[1000]	ug/L	09:44:13
3	Cd 226.502†	93211.4	96858.4	[1000]	ug/L	09:44:18
3	Co 228.616†	52497.3	54525.3	[1000]	ug/L	09:44:18
3	Cr 267.716†	91454.2	94747.5	[1000]	ug/L	09:44:18
3	Cu 324.752†	345382.5	351308.1	[1000]	ug/L	09:44:18
3	Mn 257.610†	954054.1	988847.1	[1000]	ug/L	09:44:13
3	Mo 202.031†	14283.5	14808.9	[1000]	ug/L	09:44:38
3	Ni 231.604†	43005.8	44513.2	[1000]	ug/L	09:44:18
3	P 214.914†	9851.2	9981.1	[5000]	ug/L	09:44:38
3	Pb 220.353†	8837.6	9235.6	[1000]	ug/L	09:44:38
3	S 181.975 Axial†	1658.2	1667.6	[2000]	ug/L	09:44:38
3	Sb 206.836†	3214.7	3298.1	[1000]	ug/L	09:44:38
3	Se 196.026†	1778.5	1873.7	[1000]	ug/L	09:44:38
3	Si 251.611†	163793.6	169361.9	[5000]	ug/L	09:44:18
3	Sn 189.927†	6044.1	6250.0	[1000]	ug/L	09:44:38
3	Ti 334.940†	628527.0	653467.5	[1000]	ug/L	09:44:18
3	Tl 190.801†	3368.7	3536.5	[1000]	ug/L	09:44:38
3	U 409.014†	25940.9	31225.1	[1000]	ug/L	09:44:18
3	V 292.402†	138714.5	145552.6	[1000]	ug/L	09:44:18
3	Zn 213.857†	114515.3	118005.5	[1000]	ug/L	09:44:18
3	SiO2†	161836.0	167289.1	[10695]	ug/L	09:44:55

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	832882.2	2269.50	0.27%	96.314	%
Sc Radial	3910.8	10.35	0.26%	98.8	%
Y 371.029	654045.2	2696.35	0.41%	95.888	%
Y RADIAL	4384.1	39.44	0.90%	96.60	%
Ag 328.068†	222134.3	173.37	0.08%	[1000]	ug/L
Al 396.153Radial†	11617.9	41.00	0.35%	[10000]	ug/L
As 188.979†	2645.5	16.71	0.63%	[1000]	ug/L
B 249.677†	47609.0	124.36	0.26%	[1000]	ug/L
Ba 233.527†	133763.7	162.63	0.12%	[1000]	ug/L
Be 313.107†	2956671.7	16721.79	0.57%	[1000]	ug/L
Ca 317.933Radial†	5266.2	27.02	0.51%	[10000]	ug/L
Cd 226.502†	96678.4	156.86	0.16%	[1000]	ug/L
Co 228.616†	54389.5	140.18	0.26%	[1000]	ug/L
Cr 267.716†	94553.5	171.36	0.18%	[1000]	ug/L
Cu 324.752†	351348.7	442.93	0.13%	[1000]	ug/L
Fe 238.204 Radial†	858.5	1.07	0.12%	[10000]	ug/L
K 766.490 Radial†	57343.1	287.36	0.50%	[10000]	ug/L

Mg 279.077 IEC†	237.9	1.12	0.47%	[10000]	ug/L
Mn 257.610†	984120.7	4106.62	0.42%	[1000]	ug/L
Mo 202.031†	14785.3	36.30	0.25%	[1000]	ug/L
Na 589.592 Radial†	34910.8	153.31	0.44%	[10000]	ug/L
Ni 231.604†	44483.5	53.47	0.12%	[1000]	ug/L
P 214.914†	9939.7	47.63	0.48%	[5000]	ug/L
Pb 220.353†	9215.3	39.83	0.43%	[1000]	ug/L
S 181.975 Axial†	1667.5	0.72	0.04%	[2000]	ug/L
Sb 206.836†	3284.7	17.16	0.52%	[1000]	ug/L
Se 196.026†	1862.7	15.81	0.85%	[1000]	ug/L
Si 251.611†	169127.2	388.67	0.23%	[5000]	ug/L
Sn 189.927†	6219.7	40.71	0.65%	[1000]	ug/L
Sr 421.552†	147806.1	666.94	0.45%	[1000]	ug/L
Ti 334.940†	653390.0	424.01	0.06%	[1000]	ug/L
Tl 190.801†	3529.4	12.09	0.34%	[1000]	ug/L
U 409.014†	31314.3	78.14	0.25%	[1000]	ug/L
V 292.402†	145448.7	90.01	0.06%	[1000]	ug/L
Zn 213.857†	117873.8	174.17	0.15%	[1000]	ug/L
SiO2†	168708.5	1233.62	0.73%	[10695]	ug/L

Sequence No.: 5
 Sample ID: S10
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 2/3/2010 09:47:06
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc Radial	3963.6	3963.6	100 %		09:49:19
1	Y RADIAL	4342.9	4342.9	95.69 %		09:49:19
1	Al 396.153Radial†	55232.8	55378.5	[50000] ug/L		09:48:59
1	Ca 317.933Radial†	25150.4	25111.3	[50000] ug/L		09:48:59
1	Fe 238.204 Radial†	1681.4	1668.0	[20000] ug/L		09:49:19
1	Mg 279.077 IEC†	1152.2	1147.9	[50000] ug/L		09:49:19
1	Na 589.592 Radial†	68030.0	69553.4	[20000] ug/L		09:48:59
1	Sc 361.383	838418.4	838418.4	96.954 %		09:50:16
1	Y 371.029	648046.0	648046.0	95.009 %		09:50:16
2	Sc Radial	3939.5	3939.5	99.5 %		09:49:44
2	Y RADIAL	4303.3	4303.3	94.82 %		09:49:44
2	Al 396.153Radial†	54973.3	55454.9	[50000] ug/L		09:49:24
2	Ca 317.933Radial†	25017.3	25131.0	[50000] ug/L		09:49:24
2	Fe 238.204 Radial†	1679.9	1676.8	[20000] ug/L		09:49:44
2	Mg 279.077 IEC†	1150.4	1153.1	[50000] ug/L		09:49:44
2	Na 589.592 Radial†	67719.1	69656.2	[20000] ug/L		09:49:24
2	Sc 361.383	834438.6	834438.6	96.494 %		09:50:22
2	Y 371.029	646216.3	646216.3	94.740 %		09:50:22
3	Sc Radial	3948.4	3948.4	99.7 %		09:50:09
3	Y RADIAL	4304.5	4304.5	94.85 %		09:50:09
3	Al 396.153Radial†	55398.5	55756.3	[50000] ug/L		09:49:49
3	Ca 317.933Radial†	25204.3	25261.7	[50000] ug/L		09:49:49
3	Fe 238.204 Radial†	1671.5	1664.6	[20000] ug/L		09:50:09
3	Mg 279.077 IEC†	1139.7	1139.7	[50000] ug/L		09:50:09
3	Na 589.592 Radial†	68206.1	69990.6	[20000] ug/L		09:49:49
3	Sc 361.383	847301.7	847301.7	97.981 %		09:50:28
3	Y 371.029	655484.6	655484.6	96.099 %		09:50:28

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib. Units
Sc 361.383	840052.9	6585.47	0.78%	97.143 %	
Sc Radial	3950.5	12.17	0.31%	99.8 %	
Y 371.029	649915.7	4908.88	0.76%	95.283 %	
Y RADIAL	4316.9	22.55	0.52%	95.12 %	
Al 396.153Radial†	55529.9	199.73	0.36%	[50000] ug/L	
Ca 317.933Radial†	25168.0	81.74	0.32%	[50000] ug/L	
Fe 238.204 Radial†	1669.8	6.34	0.38%	[20000] ug/L	
Mg 279.077 IEC†	1146.9	6.74	0.59%	[50000] ug/L	
Na 589.592 Radial†	69733.4	228.55	0.33%	[20000] ug/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	220.3	0.00000	0.999868	
Al 396.153Radial	3	Lin Thru 0	0.0	1.113	0.00000	0.999947	
As 188.979	3	Lin Thru 0	0.0	2.622	0.00000	0.999839	
B 249.677	3	Lin Thru 0	0.0	47.06	0.00000	0.999742	
Ba 233.527	3	Lin Thru 0	0.0	132.7	0.00000	0.999879	
Be 313.107	3	Lin Thru 0	0.0	2933	0.00000	0.999873	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.5044	0.00000	0.999958	
Cd 226.502	3	Lin Thru 0	0.0	95.86	0.00000	0.999861	
Co 228.616	3	Lin Thru 0	0.0	53.79	0.00000	0.999752	
Cr 267.716	3	Lin Thru 0	0.0	93.73	0.00000	0.999851	
Cu 324.752	3	Lin Thru 0	0.0	348.4	0.00000	0.999861	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0840	0.00000	0.999937	
K 766.490 Radial	3	Lin Thru 0	0.0	5.736	0.00000	0.999995	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0230	0.00000	0.999969
Mn 257.610	3	Lin Thru 0	0.0	976.8	0.00000	0.999887
Mo 202.031	3	Lin Thru 0	0.0	14.68	0.00000	0.999893
Na 589.592 Radia	2	Lin Thru 0	0.0	3.488	0.00000	1.000000
Ni 231.604	3	Lin Thru 0	0.0	44.01	0.00000	0.999775
P 214.914	3	Lin Thru 0	0.0	1.967	0.00000	0.999782
Pb 220.353	3	Lin Thru 0	0.0	9.141	0.00000	0.999871
S 181.975 Axial	3	Lin Thru 0	0.0	0.8264	0.00000	0.999847
Sb 206.836	3	Lin Thru 0	0.0	3.248	0.00000	0.999750
Se 196.026	3	Lin Thru 0	0.0	1.846	0.00000	0.999835
Si 251.611	3	Lin Thru 0	0.0	33.61	0.00000	0.999921
Sn 189.927	3	Lin Thru 0	0.0	6.159	0.00000	0.999811
Sr 421.552	3	Lin Thru 0	0.0	148.0	0.00000	0.999993
Ti 334.940	3	Lin Thru 0	0.0	651.3	0.00000	0.999980
Tl 190.801	3	Lin Thru 0	0.0	3.499	0.00000	0.999855
U 409.014	3	Lin Thru 0	0.0	30.81	0.00000	0.999472
V 292.402	3	Lin Thru 0	0.0	144.1	0.00000	0.999820
Zn 213.857	3	Lin Thru 0	0.0	116.9	0.00000	0.999868
SiO2	3	Lin Thru 0	0.0	15.67	0.00000	0.999911

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 2/3/2010 09:52:40

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	3903.6	3903.6	98.6 %		09:54:52
1	Y RADIAL	4382.8	4382.8	96.57 %		09:54:32
1	Al 396.153Radial†	5548.7	5824.7	5207.1 ug/L	5207.1 ppb	09:54:32
1	Ca 317.933Radial†	2558.3	2579.0	5113.1 ug/L	5113.1 ppb	09:54:52
1	Fe 238.204 Radial†	430.8	425.2	5078.6 ug/L	5078.6 ppb	09:54:52
1	K 766.490 Radial†	16778.8	13990.6	2435.7 ug/L	2435.7 ppb	09:54:32
1	Mg 279.077 IEC†	126.1	124.7	5425.1 ug/L	5425.1 ppb	09:54:52
1	Na 589.592 Radial†	6641.4	8322.5	2386.3 ug/L	2386.3 ppb	09:54:32
1	Sr 421.552†	75260.7	76348.1	515.73 ug/L	515.73 ppb	09:54:32
1	Sc 361.383	862764.3	862764.3	99.769 %		09:55:50
1	Y 371.029	674326.6	674326.6	98.862 %		09:55:50
1	Ag 328.068†	54888.3	54580.2	250.98 ug/L	250.98 ppb	09:55:50
1	As 188.979†	1183.8	1222.0	470.24 ug/L	470.24 ppb	09:56:10
1	B 249.677†	22653.4	23312.7	493.12 ug/L	493.12 ppb	09:55:50
1	Ba 233.527†	65419.8	65589.2	495.43 ug/L	495.43 ppb	09:55:50
1	Be 313.107†	737126.6	742776.8	254.38 ug/L	254.38 ppb	09:55:50
1	Cd 226.502†	45902.5	46208.3	481.91 ug/L	481.91 ppb	09:55:50
1	Co 228.616†	26142.4	26289.3	488.93 ug/L	488.93 ppb	09:56:10
1	Cr 267.716†	44374.0	44387.6	474.16 ug/L	474.16 ppb	09:55:50
1	Cu 324.752†	177955.0	171518.6	492.30 ug/L	492.30 ppb	09:55:50
1	Mn 257.610†	487535.0	488171.0	500.06 ug/L	500.06 ppb	09:55:50
1	Mo 202.031†	7724.4	7739.4	527.76 ug/L	527.76 ppb	09:56:10
1	Ni 231.604†	21525.0	21491.7	488.03 ug/L	488.03 ppb	09:56:10
1	P 214.914†	5036.5	4813.7	2351.5 ug/L	2351.5 ppb	09:56:10
1	Pb 220.353†	4372.7	4454.0	489.02 ug/L	489.02 ppb	09:56:10
1	S 181.975 Axial†	2048.9	2001.7	2421.3 ug/L	2421.3 ppb	09:56:10
1	Sb 206.836†	1616.3	1584.5	506.74 ug/L	506.74 ppb	09:56:10
1	Se 196.026†	4522.5	4562.5	2489.3 ug/L	2489.3 ppb	09:56:10
1	Si 251.611†	160241.1	160122.4	4757.7 ug/L	4757.7 ppb	09:55:50
1	Sn 189.927†	3244.4	3234.2	525.99 ug/L	525.99 ppb	09:56:10
1	Ti 334.940†	317530.6	319960.2	491.11 ug/L	491.11 ppb	09:55:50
1	Tl 190.801†	1772.2	1819.5	523.35 ug/L	523.35 ppb	09:56:10
1	U 409.014†	10824.0	15173.9	490.81 ug/L	490.81 ppb	09:55:50
1	V 292.402†	69582.3	71451.2	503.05 ug/L	503.05 ppb	09:55:50
1	Zn 213.857†	58553.0	57943.4	491.38 ug/L	491.38 ppb	09:55:50
1	SiO2†	160294.0	160132.6	10206 ug/L	10206 ppb	09:57:08
2	Sc Radial	3914.5	3914.5	98.9 %		09:55:17
2	Y RADIAL	4433.0	4433.0	97.68 %		09:54:57
2	Al 396.153Radial†	5628.1	5889.4	5265.3 ug/L	5265.3 ppb	09:54:57
2	Ca 317.933Radial†	2557.9	2571.3	5098.0 ug/L	5098.0 ppb	09:55:17
2	Fe 238.204 Radial†	427.6	420.8	5026.4 ug/L	5026.4 ppb	09:55:17
2	K 766.490 Radial†	17080.3	14248.2	2480.6 ug/L	2480.6 ppb	09:54:57
2	Mg 279.077 IEC†	120.8	118.9	5174.2 ug/L	5174.2 ppb	09:55:17
2	Na 589.592 Radial†	6786.5	8450.6	2423.1 ug/L	2423.1 ppb	09:54:57
2	Sr 421.552†	76114.4	76999.2	520.13 ug/L	520.13 ppb	09:54:57
2	Sc 361.383	867750.1	867750.1	100.35 %		09:56:16
2	Y 371.029	677592.2	677592.2	99.340 %		09:56:16
2	Ag 328.068†	55130.6	54505.6	250.63 ug/L	250.63 ppb	09:56:16
2	As 188.979†	1184.8	1216.2	468.02 ug/L	468.02 ppb	09:56:36
2	B 249.677†	22964.8	23492.5	496.95 ug/L	496.95 ppb	09:56:16
2	Ba 233.527†	65764.9	65556.4	495.18 ug/L	495.18 ppb	09:56:16
2	Be 313.107†	743112.1	744496.7	254.96 ug/L	254.96 ppb	09:56:16
2	Cd 226.502†	46311.0	46351.1	483.40 ug/L	483.40 ppb	09:56:16
2	Co 228.616†	26195.0	26191.2	487.10 ug/L	487.10 ppb	09:56:36
2	Cr 267.716†	44670.0	44427.1	474.58 ug/L	474.58 ppb	09:56:16
2	Cu 324.752†	179498.6	172032.1	493.77 ug/L	493.77 ppb	09:56:16
2	Mn 257.610†	491524.6	489339.2	501.26 ug/L	501.26 ppb	09:56:16
2	Mo 202.031†	7735.5	7706.0	525.48 ug/L	525.48 ppb	09:56:36
2	Ni 231.604†	21537.2	21379.8	485.49 ug/L	485.49 ppb	09:56:36

2	P 214.914†	4984.9	4733.2	2310.4 ug/L	2310.4 ppb	09:56:36
2	Pb 220.353†	4385.1	4441.2	487.63 ug/L	487.63 ppb	09:56:36
2	S 181.975 Axial†	2047.6	1988.6	2405.4 ug/L	2405.4 ppb	09:56:36
2	Sb 206.836†	1610.4	1569.3	501.97 ug/L	501.97 ppb	09:56:36
2	Se 196.026†	4545.8	4559.7	2487.6 ug/L	2487.6 ppb	09:56:36
2	Si 251.611†	161529.6	160483.7	4768.5 ug/L	4768.5 ppb	09:56:16
2	Sn 189.927†	3240.0	3211.2	522.26 ug/L	522.26 ppb	09:56:36
2	Ti 334.940†	319693.1	320286.6	491.62 ug/L	491.62 ppb	09:56:16
2	Tl 190.801†	1774.6	1811.7	521.14 ug/L	521.14 ppb	09:56:36
2	U 409.014†	11029.0	15315.8	495.42 ug/L	495.42 ppb	09:56:16
2	V 292.402†	70202.0	71668.0	504.54 ug/L	504.54 ppb	09:56:16
2	Zn 213.857†	59087.6	58139.0	493.08 ug/L	493.08 ppb	09:56:16
2	SiO2†	160276.4	159192.0	10146 ug/L	10146 ppb	09:57:13
3	Sc Radial	3898.4	3898.4	98.4 %		09:55:42
3	Y RADIAL	4458.8	4458.8	98.25 %		09:55:22
3	Al 396.153Radial†	5675.7	5961.3	5329.8 ug/L	5329.8 ppb	09:55:22
3	Ca 317.933Radial†	2533.1	2556.8	5069.3 ug/L	5069.3 ppb	09:55:42
3	Fe 238.204 Radial†	426.2	421.1	5029.9 ug/L	5029.9 ppb	09:55:42
3	K 766.490 Radial†	17083.3	14322.7	2493.6 ug/L	2493.6 ppb	09:55:22
3	Mg 279.077 IEC†	126.0	124.7	5428.7 ug/L	5428.7 ppb	09:55:42
3	Na 589.592 Radial†	6801.6	8494.3	2435.6 ug/L	2435.6 ppb	09:55:22
3	Sr 421.552†	76646.2	77857.7	525.93 ug/L	525.93 ppb	09:55:22
3	Sc 361.383	865032.5	865032.5	100.03 %		09:56:42
3	Y 371.029	675848.4	675848.4	99.085 %		09:56:42
3	Ag 328.068†	54854.8	54402.4	250.16 ug/L	250.16 ppb	09:56:42
3	As 188.979†	1181.6	1216.7	468.19 ug/L	468.19 ppb	09:57:02
3	B 249.677†	22844.4	23444.1	495.92 ug/L	495.92 ppb	09:56:42
3	Ba 233.527†	65789.7	65787.1	496.92 ug/L	496.92 ppb	09:56:42
3	Be 313.107†	740175.5	743887.5	254.76 ug/L	254.76 ppb	09:56:42
3	Cd 226.502†	46345.8	46530.9	485.28 ug/L	485.28 ppb	09:56:42
3	Co 228.616†	26198.9	26277.1	488.70 ug/L	488.70 ppb	09:57:02
3	Cr 267.716†	44677.9	44574.8	476.15 ug/L	476.15 ppb	09:56:42
3	Cu 324.752†	177941.0	171036.9	490.91 ug/L	490.91 ppb	09:56:42
3	Mn 257.610†	490501.3	489855.1	501.78 ug/L	501.78 ppb	09:56:42
3	Mo 202.031†	7731.1	7725.8	526.83 ug/L	526.83 ppb	09:57:02
3	Ni 231.604†	21582.5	21492.5	488.05 ug/L	488.05 ppb	09:57:02
3	P 214.914†	5019.4	4783.4	2336.4 ug/L	2336.4 ppb	09:57:02
3	Pb 220.353†	4358.1	4427.9	486.20 ug/L	486.20 ppb	09:57:02
3	S 181.975 Axial†	2055.7	2003.1	2422.9 ug/L	2422.9 ppb	09:57:02
3	Sb 206.836†	1617.9	1581.9	505.90 ug/L	505.90 ppb	09:57:02
3	Se 196.026†	4552.2	4580.3	2498.8 ug/L	2498.8 ppb	09:57:02
3	Si 251.611†	160886.7	160346.7	4764.4 ug/L	4764.4 ppb	09:56:42
3	Sn 189.927†	3248.7	3230.0	525.30 ug/L	525.30 ppb	09:57:02
3	Ti 334.940†	318578.7	320173.4	491.43 ug/L	491.43 ppb	09:56:42
3	Tl 190.801†	1784.3	1826.9	525.48 ug/L	525.48 ppb	09:57:02
3	U 409.014†	10944.3	15265.7	493.79 ug/L	493.79 ppb	09:56:42
3	V 292.402†	69831.1	71517.0	503.51 ug/L	503.51 ppb	09:56:42
3	Zn 213.857†	59019.4	58255.8	494.06 ug/L	494.06 ppb	09:56:42
3	SiO2†	161442.0	160859.0	10252 ug/L	10252 ppb	09:57:18

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	865182.3	100.05 %	0.289			0.29%
Sc Radial	3905.5	98.6 %	0.21			0.21%
Y 371.029	675922.4	99.096 %	0.2396			0.24%
Y RADIAL	4424.9	97.50 %	0.851			0.87%
Ag 328.068†	54496.1	250.59 ug/L	0.413	250.59 ppb	0.413	0.16%
QC value within limits for Ag 328.068 Recovery = 100.23%						
Al 396.153Radial†	5891.8	5267.4 ug/L	61.39	5267.4 ppb	61.39	1.17%
QC value within limits for Al 396.153Radial Recovery = 105.35%						
As 188.979†	1218.3	468.82 ug/L	1.234	468.82 ppb	1.234	0.26%
QC value within limits for As 188.979 Recovery = 93.76%						
B 249.677†	23416.4	495.33 ug/L	1.984	495.33 ppb	1.984	0.40%
QC value within limits for B 249.677 Recovery = 99.07%						
Ba 233.527†	65644.2	495.85 ug/L	0.940	495.85 ppb	0.940	0.19%
QC value within limits for Ba 233.527 Recovery = 99.17%						
Be 313.107†	743720.3	254.70 ug/L	0.298	254.70 ppb	0.298	0.12%
QC value within limits for Be 313.107 Recovery = 101.88%						
Ca 317.933Radial†	2569.0	5093.5 ug/L	22.28	5093.5 ppb	22.28	0.44%

QC value within limits for Ca 317.933 Radial Recovery = 101.87%							
Cd 226.502†	46363.4	483.53 ug/L	1.689	483.53 ppb	1.689	0.35%	
QC value within limits for Cd 226.502 Recovery = 96.71%							
Co 228.616†	26252.5	488.25 ug/L	0.997	488.25 ppb	0.997	0.20%	
QC value within limits for Co 228.616 Recovery = 97.65%							
Cr 267.716†	44463.2	474.96 ug/L	1.052	474.96 ppb	1.052	0.22%	
QC value within limits for Cr 267.716 Recovery = 94.99%							
Cu 324.752†	171529.2	492.33 ug/L	1.428	492.33 ppb	1.428	0.29%	
QC value within limits for Cu 324.752 Recovery = 98.47%							
Fe 238.204 Radial†	422.4	5045.0 ug/L	29.16	5045.0 ppb	29.16	0.58%	
QC value within limits for Fe 238.204 Radial Recovery = 100.90%							
K 766.490 Radial†	14187.2	2470.0 ug/L	30.38	2470.0 ppb	30.38	1.23%	
QC value within limits for K 766.490 Radial Recovery = 98.80%							
Mg 279.077 IEC†	122.8	5342.7 ug/L	145.93	5342.7 ppb	145.93	2.73%	
QC value within limits for Mg 279.077 IEC Recovery = 106.85%							
Mn 257.610†	489121.8	501.03 ug/L	0.882	501.03 ppb	0.882	0.18%	
QC value within limits for Mn 257.610 Recovery = 100.21%							
Mo 202.031†	7723.8	526.69 ug/L	1.147	526.69 ppb	1.147	0.22%	
QC value within limits for Mo 202.031 Recovery = 105.34%							
Na 589.592 Radial†	8422.5	2415.0 ug/L	25.59	2415.0 ppb	25.59	1.06%	
QC value within limits for Na 589.592 Radial Recovery = 96.60%							
Ni 231.604†	21454.7	487.19 ug/L	1.472	487.19 ppb	1.472	0.30%	
QC value within limits for Ni 231.604 Recovery = 97.44%							
P 214.914†	4776.8	2332.8 ug/L	20.82	2332.8 ppb	20.82	0.89%	
QC value within limits for P 214.914 Recovery = 93.31%							
Pb 220.353†	4441.0	487.62 ug/L	1.413	487.62 ppb	1.413	0.29%	
QC value within limits for Pb 220.353 Recovery = 97.52%							
S 181.975 Axial†	1997.8	2416.5 ug/L	9.67	2416.5 ppb	9.67	0.40%	
QC value within limits for S 181.975 Axial Recovery = 96.66%							
Sb 206.836†	1578.6	504.87 ug/L	2.547	504.87 ppb	2.547	0.50%	
QC value within limits for Sb 206.836 Recovery = 100.97%							
Se 196.026†	4567.5	2491.9 ug/L	6.03	2491.9 ppb	6.03	0.24%	
QC value within limits for Se 196.026 Recovery = 99.67%							
Si 251.611†	160317.6	4763.5 ug/L	5.44	4763.5 ppb	5.44	0.11%	
QC value within limits for Si 251.611 Recovery = 95.27%							
Sn 189.927†	3225.2	524.52 ug/L	1.988	524.52 ppb	1.988	0.38%	
QC value within limits for Sn 189.927 Recovery = 104.90%							
Sr 421.552†	77068.3	520.60 ug/L	5.115	520.60 ppb	5.115	0.98%	
QC value within limits for Sr 421.552 Recovery = 104.12%							
Ti 334.940†	320140.1	491.39 ug/L	0.261	491.39 ppb	0.261	0.05%	
QC value within limits for Ti 334.940 Recovery = 98.28%							
Tl 190.801†	1819.4	523.32 ug/L	2.172	523.32 ppb	2.172	0.42%	
QC value within limits for Tl 190.801 Recovery = 104.66%							
U 409.014†	15251.8	493.34 ug/L	2.338	493.34 ppb	2.338	0.47%	
QC value within limits for U 409.014 Recovery = 98.67%							
V 292.402†	71545.4	503.70 ug/L	0.760	503.70 ppb	0.760	0.15%	
QC value within limits for V 292.402 Recovery = 100.74%							
Zn 213.857†	58112.7	492.84 ug/L	1.355	492.84 ppb	1.355	0.27%	
QC value within limits for Zn 213.857 Recovery = 98.57%							
SiO2†	160061.2	10201 ug/L	53.3	10201 ppb	53.3	0.52%	
QC value within limits for SiO2 Recovery = 95.39%							

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 2/3/2010 09:59:29

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	3871.2	3871.2	97.8 %		10:01:42
1	Y RADIAL	4359.2	4359.2	96.05 %		10:01:22
1	Al 396.153Radial†	-191.8	-0.4	-0.3652 ug/L	-0.3652 ppb	10:01:22
1	Ca 317.933Radial†	15.1	-0.8	-1.6401 ug/L	-1.6401 ppb	10:01:42
1	Fe 238.204 Radial†	9.6	-2.0	-23.697 ug/L	-23.697 ppb	10:01:42
1	K 766.490 Radial†	2904.2	-60.0	-10.448 ug/L	-10.448 ppb	10:01:22
1	Mg 279.077 IEC†	3.6	0.4	16.341 ug/L	16.341 ppb	10:01:42
1	Na 589.592 Radial†	-1599.0	-50.5	-14.490 ug/L	-14.490 ppb	10:01:22
1	Sr 421.552†	14.5	14.4	0.0974 ug/L	0.0974 ppb	10:01:22
1	Sc 361.383	862383.7	862383.7	99.725 %		10:02:39
1	Y 371.029	680146.2	680146.2	99.715 %		10:02:39
1	Ag 328.068†	346.5	-87.7	-0.4043 ug/L	-0.4043 ppb	10:02:39
1	As 188.979†	-31.1	4.2	1.6136 ug/L	1.6136 ppb	10:02:59
1	B 249.677†	-462.8	142.8	3.0385 ug/L	3.0385 ppb	10:02:39
1	Ba 233.527†	-6.8	11.2	0.0835 ug/L	0.0835 ppb	10:02:59
1	Be 313.107†	-3843.6	89.9	0.0304 ug/L	0.0304 ppb	10:02:39
1	Cd 226.502†	-206.2	-7.2	-0.0728 ug/L	-0.0728 ppb	10:02:59
1	Co 228.616†	-106.3	-20.3	-0.3762 ug/L	-0.3762 ppb	10:02:59
1	Cr 267.716†	98.9	10.2	0.1090 ug/L	0.1090 ppb	10:02:39
1	Cu 324.752†	6990.1	161.1	0.4627 ug/L	0.4627 ppb	10:02:39
1	Mn 257.610†	485.0	-6.1	-0.0092 ug/L	-0.0092 ppb	10:02:59
1	Mo 202.031†	1.6	-1.2	-0.0853 ug/L	-0.0853 ppb	10:02:59
1	Ni 231.604†	85.2	2.2	0.0505 ug/L	0.0505 ppb	10:02:59
1	P 214.914†	232.7	-1.2	-0.6671 ug/L	-0.6671 ppb	10:02:59
1	Pb 220.353†	-68.7	2.3	0.2571 ug/L	0.2571 ppb	10:02:59
1	S 181.975 Axial†	51.6	-0.2	-0.2709 ug/L	-0.2709 ppb	10:02:59
1	Sb 206.836†	38.9	3.5	1.0719 ug/L	1.0719 ppb	10:02:59
1	Se 196.026†	-26.0	3.4	1.7849 ug/L	1.7849 ppb	10:02:59
1	Si 251.611†	556.2	68.2	2.0295 ug/L	2.0295 ppb	10:02:59
1	Sn 189.927†	17.0	-0.6	-0.0925 ug/L	-0.0925 ppb	10:02:59
1	Ti 334.940†	-1757.9	-68.2	-0.1050 ug/L	-0.1050 ppb	10:02:39
1	Tl 190.801†	-39.5	3.6	1.0437 ug/L	1.0437 ppb	10:02:59
1	U 409.014†	-4402.0	-89.4	-2.8988 ug/L	-2.8988 ppb	10:02:39
1	V 292.402†	-1731.6	-28.5	-0.2009 ug/L	-0.2009 ppb	10:02:39
1	Zn 213.857†	735.7	-7.4	-0.0619 ug/L	-0.0619 ppb	10:02:59
1	SiO2†	598.0	67.2	4.2911 ug/L	4.2911 ppb	10:03:55
2	Sc Radial	3860.3	3860.3	97.5 %		10:02:07
2	Y RADIAL	4475.3	4475.3	98.61 %		10:01:47
2	Al 396.153Radial†	-191.0	-0.1	-0.1055 ug/L	-0.1055 ppb	10:01:47
2	Ca 317.933Radial†	15.9	0.0	0.0257 ug/L	0.0257 ppb	10:02:07
2	Fe 238.204 Radial†	11.5	-0.0	-0.3554 ug/L	-0.3554 ppb	10:02:07
2	K 766.490 Radial†	3066.6	115.1	20.081 ug/L	20.081 ppb	10:01:47
2	Mg 279.077 IEC†	3.7	0.4	19.540 ug/L	19.540 ppb	10:02:07
2	Na 589.592 Radial†	-1650.8	-108.3	-31.056 ug/L	-31.056 ppb	10:01:47
2	Sr 421.552†	33.6	34.0	0.2296 ug/L	0.2296 ppb	10:01:47
2	Sc 361.383	858722.8	858722.8	99.302 %		10:03:05
2	Y 371.029	678390.8	678390.8	99.457 %		10:03:05
2	Ag 328.068†	379.2	-53.2	-0.2410 ug/L	-0.2410 ppb	10:03:05
2	As 188.979†	-25.6	9.6	3.6753 ug/L	3.6753 ppb	10:03:25
2	B 249.677†	-478.9	124.5	2.6461 ug/L	2.6461 ppb	10:03:05
2	Ba 233.527†	-11.9	6.0	0.0435 ug/L	0.0435 ppb	10:03:25
2	Be 313.107†	-3942.6	-26.2	-0.0094 ug/L	-0.0094 ppb	10:03:05
2	Cd 226.502†	-197.3	0.9	0.0092 ug/L	0.0092 ppb	10:03:25
2	Co 228.616†	-93.0	-7.3	-0.1349 ug/L	-0.1349 ppb	10:03:25
2	Cr 267.716†	19.4	-69.5	-0.7404 ug/L	-0.7404 ppb	10:03:05
2	Cu 324.752†	6909.8	110.1	0.3186 ug/L	0.3186 ppb	10:03:05
2	Mn 257.610†	469.6	-19.6	-0.0209 ug/L	-0.0209 ppb	10:03:25
2	Mo 202.031†	0.6	-2.3	-0.1540 ug/L	-0.1540 ppb	10:03:25
2	Ni 231.604†	108.7	26.3	0.5970 ug/L	0.5970 ppb	10:03:25

2	P 214.914†	223.5	-9.4	-4.8608 ug/L	-4.8608 ppb	10:03:25
2	Pb 220.353†	-77.6	-7.0	-0.7643 ug/L	-0.7643 ppb	10:03:25
2	S 181.975 Axial†	48.5	-3.0	-3.6821 ug/L	-3.6821 ppb	10:03:25
2	Sb 206.836†	45.8	10.6	3.2366 ug/L	3.2366 ppb	10:03:25
2	Se 196.026†	-26.5	2.9	1.5467 ug/L	1.5467 ppb	10:03:25
2	Si 251.611†	577.7	92.3	2.7468 ug/L	2.7468 ppb	10:03:25
2	Sn 189.927†	11.0	-6.6	-1.0708 ug/L	-1.0708 ppb	10:03:25
2	Ti 334.940†	-1815.3	-133.4	-0.2040 ug/L	-0.2040 ppb	10:03:05
2	Tl 190.801†	-44.4	-1.5	-0.4277 ug/L	-0.4277 ppb	10:03:25
2	U 409.014†	-4444.5	-150.9	-4.8970 ug/L	-4.8970 ppb	10:03:05
2	V 292.402†	-1813.9	-118.8	-0.8354 ug/L	-0.8354 ppb	10:03:05
2	Zn 213.857†	708.4	-31.7	-0.2757 ug/L	-0.2757 ppb	10:03:25
2	SiO2†	585.6	57.3	3.6602 ug/L	3.6602 ppb	10:04:00
3	Sc Radial	3874.6	3874.6	97.8 %		10:02:32
3	Y RADIAL	4437.9	4437.9	97.78 %		10:02:12
3	Al 396.153Radial†	-210.1	-18.9	-17.032 ug/L	-17.032 ppb	10:02:12
3	Ca 317.933Radial†	11.4	-4.7	-9.2457 ug/L	-9.2457 ppb	10:02:32
3	Fe 238.204 Radial†	9.7	-1.9	-22.657 ug/L	-22.657 ppb	10:02:32
3	K 766.490 Radial†	3040.4	76.7	13.394 ug/L	13.394 ppb	10:02:12
3	Mg 279.077 IEC†	5.8	2.7	116.50 ug/L	116.50 ppb	10:02:32
3	Na 589.592 Radial†	-1695.6	-147.8	-42.381 ug/L	-42.381 ppb	10:02:12
3	Sr 421.552†	25.0	25.2	0.1700 ug/L	0.1700 ppb	10:02:12
3	Sc 361.383	850264.2	850264.2	98.324 %		10:03:30
3	Y 371.029	670890.9	670890.9	98.358 %		10:03:30
3	Ag 328.068†	453.6	26.2	0.1153 ug/L	0.1153 ppb	10:03:30
3	As 188.979†	-32.5	2.4	0.9138 ug/L	0.9138 ppb	10:03:50
3	B 249.677†	-463.0	135.9	2.8908 ug/L	2.8908 ppb	10:03:30
3	Ba 233.527†	-6.6	11.3	0.0823 ug/L	0.0823 ppb	10:03:50
3	Be 313.107†	-3985.6	-109.5	-0.0376 ug/L	-0.0376 ppb	10:03:30
3	Cd 226.502†	-190.6	5.7	0.0604 ug/L	0.0604 ppb	10:03:50
3	Co 228.616†	-88.3	-3.4	-0.0614 ug/L	-0.0614 ppb	10:03:50
3	Cr 267.716†	81.9	-5.7	-0.0591 ug/L	-0.0591 ppb	10:03:30
3	Cu 324.752†	6901.9	171.3	0.4956 ug/L	0.4956 ppb	10:03:30
3	Mn 257.610†	474.9	-9.4	-0.0167 ug/L	-0.0167 ppb	10:03:50
3	Mo 202.031†	7.8	5.2	0.3495 ug/L	0.3495 ppb	10:03:50
3	Ni 231.604†	91.3	9.7	0.2205 ug/L	0.2205 ppb	10:03:50
3	P 214.914†	235.6	5.1	2.5035 ug/L	2.5035 ppb	10:03:50
3	Pb 220.353†	-62.3	7.8	0.8516 ug/L	0.8516 ppb	10:03:50
3	S 181.975 Axial†	48.5	-2.6	-3.1059 ug/L	-3.1059 ppb	10:03:50
3	Sb 206.836†	47.8	13.1	4.0200 ug/L	4.0200 ppb	10:03:50
3	Se 196.026†	-23.7	5.4	2.8569 ug/L	2.8569 ppb	10:03:50
3	Si 251.611†	575.9	96.2	2.8585 ug/L	2.8585 ppb	10:03:50
3	Sn 189.927†	11.4	-6.0	-0.9811 ug/L	-0.9811 ppb	10:03:50
3	Ti 334.940†	-1750.6	-85.8	-0.1384 ug/L	-0.1384 ppb	10:03:30
3	Tl 190.801†	-36.1	6.5	1.8711 ug/L	1.8711 ppb	10:03:50
3	U 409.014†	-4537.5	-290.1	-9.4121 ug/L	-9.4121 ppb	10:03:30
3	V 292.402†	-1813.6	-136.7	-0.9565 ug/L	-0.9565 ppb	10:03:30
3	Zn 213.857†	719.0	-13.8	-0.1183 ug/L	-0.1183 ppb	10:03:50
3	SiO2†	539.5	16.3	1.0293 ug/L	1.0293 ppb	10:04:05

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	857123.6	99.117 %	0.7188			0.73%
Sc Radial	3868.7	97.7 %	0.19			0.19%
Y 371.029	676475.9	99.177 %	0.7207			0.73%
Y RADIAL	4424.1	97.48 %	1.305			1.34%
Ag 328.068†	-38.2	-0.1767 ug/L	0.26571	-0.1767 ppb	0.26571	150.38%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-6.5	-5.8342 ug/L	9.69844	-5.8342 ppb	9.69844	166.23%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	5.4	2.0676 ug/L	1.43565	2.0676 ppb	1.43565	69.44%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	134.4	2.8585 ug/L	0.19821	2.8585 ppb	0.19821	6.93%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	9.5	0.0698 ug/L	0.02279	0.0698 ppb	0.02279	32.66%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-15.3	-0.0055 ug/L	0.03420	-0.0055 ppb	0.03420	617.20%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.8	-3.6200 ug/L	4.94262	-3.6200 ppb	4.94262	136.54%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-0.2	-0.0011 ug/L	0.06723	-0.0011 ppb	0.06723 >999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-10.3	-0.1908 ug/L	0.16465	-0.1908 ppb	0.16465 86.28%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-21.7	-0.2302 ug/L	0.44981	-0.2302 ppb	0.44981 195.41%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	147.5	0.4257 ug/L	0.09412	0.4257 ppb	0.09412 22.11%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	-1.3	-15.570 ug/L	13.1864	-15.570 ppb	13.1864 84.69%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	44.0	7.6758 ug/L	16.04799	7.6758 ppb	16.04799 209.07%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	1.2	50.795 ug/L	56.9284	50.795 ppb	56.9284 112.08%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	-11.7	-0.0156 ug/L	0.00589	-0.0156 ppb	0.00589 37.76%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	0.6	0.0367 ug/L	0.27306	0.0367 ppb	0.27306 743.20%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-102.2	-29.309 ug/L	14.0270	-29.309 ppb	14.0270 47.86%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	12.7	0.2893 ug/L	0.27965	0.2893 ppb	0.27965 96.66%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-1.8	-1.0081 ug/L	3.69400	-1.0081 ppb	3.69400 366.42%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	1.0	0.1148 ug/L	0.81729	0.1148 ppb	0.81729 711.67%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-1.9	-2.3530 ug/L	1.82602	-2.3530 ppb	1.82602 77.60%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	9.1	2.7762 ug/L	1.52702	2.7762 ppb	1.52702 55.00%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	3.9	2.0629 ug/L	0.69792	2.0629 ppb	0.69792 33.83%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	85.5	2.5449 ug/L	0.44985	2.5449 ppb	0.44985 17.68%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	-4.4	-0.7148 ug/L	0.54078	-0.7148 ppb	0.54078 75.66%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	24.5	0.1657 ug/L	0.06621	0.1657 ppb	0.06621 39.97%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-95.8	-0.1491 ug/L	0.05039	-0.1491 ppb	0.05039 33.78%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	2.9	0.8291 ug/L	1.16433	0.8291 ppb	1.16433 140.44%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-176.8	-5.7360 ug/L	3.33672	-5.7360 ppb	3.33672 58.17%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-94.7	-0.6643 ug/L	0.40584	-0.6643 ppb	0.40584 61.09%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	-17.7	-0.1520 ug/L	0.11081	-0.1520 ppb	0.11081 72.90%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	46.9	2.9935 ug/L	1.73009	2.9935 ppb	1.73009 57.79%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 2/3/2010 10:06:16

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	4004.9	4004.9	101 %		10:08:30
1	Y RADIAL	4483.5	4483.5	98.79 %		10:08:10
1	Al 396.153Radial†	52.4	247.6	221.93 ug/L	221.93 ppb	10:08:10
1	Ca 317.933Radial†	125.7	108.0	214.07 ug/L	214.07 ppb	10:08:30
1	Fe 238.204 Radial†	18.6	6.6	78.430 ug/L	78.430 ppb	10:08:30
1	K 766.490 Radial†	3823.1	749.5	130.48 ug/L	130.48 ppb	10:08:10
1	Mg 279.077 IEC†	11.1	7.6	332.77 ug/L	332.77 ppb	10:08:30
1	Na 589.592 Radial†	-592.2	999.6	286.62 ug/L	286.62 ppb	10:08:10
1	Sr 421.552†	776.9	767.7	5.1846 ug/L	5.1846 ppb	10:08:10
1	Sc 361.383	850123.6	850123.6	98.307 %		10:09:27
1	Y 371.029	679692.2	679692.2	99.648 %		10:09:27
1	Ag 328.068†	1642.5	1235.7	5.6109 ug/L	5.6109 ppb	10:09:27
1	As 188.979†	44.9	81.1	30.978 ug/L	30.978 ppb	10:09:47
1	B 249.677†	1849.5	2488.1	52.840 ug/L	52.840 ppb	10:09:27
1	Ba 233.527†	666.2	695.7	5.2535 ug/L	5.2535 ppb	10:09:47
1	Be 313.107†	10890.5	15022.1	5.1335 ug/L	5.1335 ppb	10:09:27
1	Cd 226.502†	265.1	469.3	4.9001 ug/L	4.9001 ppb	10:09:47
1	Co 228.616†	180.6	270.1	5.0353 ug/L	5.0353 ppb	10:09:47
1	Cr 267.716†	609.1	530.5	5.6490 ug/L	5.6490 ppb	10:09:27
1	Cu 324.752†	10314.6	3643.9	10.437 ug/L	10.437 ppb	10:09:27
1	Mn 257.610†	10698.6	10390.3	10.632 ug/L	10.632 ppb	10:09:27
1	Mo 202.031†	160.4	160.4	10.936 ug/L	10.936 ppb	10:09:47
1	Ni 231.604†	300.9	222.9	5.0607 ug/L	5.0607 ppb	10:09:47
1	P 214.914†	529.3	304.0	152.53 ug/L	152.53 ppb	10:09:47
1	Pb 220.353†	3.1	74.3	8.1950 ug/L	8.1950 ppb	10:09:47
1	S 181.975 Axial†	128.5	78.8	95.279 ug/L	95.279 ppb	10:09:47
1	Sb 206.836†	66.5	32.1	10.241 ug/L	10.241 ppb	10:09:47
1	Se 196.026†	28.5	58.5	31.951 ug/L	31.951 ppb	10:09:47
1	Si 251.611†	3930.3	3508.4	104.25 ug/L	104.25 ppb	10:09:27
1	Sn 189.927†	74.4	58.0	9.4518 ug/L	9.4518 ppb	10:09:47
1	Ti 334.940†	1575.6	3297.4	5.0413 ug/L	5.0413 ppb	10:09:27
1	Tl 190.801†	34.9	78.7	22.553 ug/L	22.553 ppb	10:09:47
1	U 409.014†	-2814.7	1461.6	47.411 ug/L	47.411 ppb	10:09:27
1	V 292.402†	-1063.9	625.6	4.5753 ug/L	4.5753 ppb	10:09:27
1	Zn 213.857†	1916.7	1204.6	10.250 ug/L	10.250 ppb	10:09:47
1	SiO2†	3953.7	3489.4	222.41 ug/L	222.41 ppb	10:10:43
2	Sc Radial	3965.4	3965.4	100 %		10:08:55
2	Y RADIAL	4521.9	4521.9	99.64 %		10:08:35
2	Al 396.153Radial†	51.3	247.0	221.41 ug/L	221.41 ppb	10:08:35
2	Ca 317.933Radial†	129.4	113.0	223.98 ug/L	223.98 ppb	10:08:55
2	Fe 238.204 Radial†	19.7	7.9	93.778 ug/L	93.778 ppb	10:08:55
2	K 766.490 Radial†	4077.0	1040.7	181.22 ug/L	181.22 ppb	10:08:35
2	Mg 279.077 IEC†	9.3	6.0	261.67 ug/L	261.67 ppb	10:08:55
2	Na 589.592 Radial†	-474.5	1111.3	318.64 ug/L	318.64 ppb	10:08:35
2	Sr 421.552†	772.0	770.5	5.2037 ug/L	5.2037 ppb	10:08:35
2	Sc 361.383	846713.3	846713.3	97.913 %		10:09:52
2	Y 371.029	676878.1	676878.1	99.236 %		10:09:52
2	Ag 328.068†	1475.3	1071.7	4.8684 ug/L	4.8684 ppb	10:09:52
2	As 188.979†	53.6	90.2	34.453 ug/L	34.453 ppb	10:10:12
2	B 249.677†	1806.5	2451.8	52.064 ug/L	52.064 ppb	10:09:52
2	Ba 233.527†	665.8	698.0	5.2728 ug/L	5.2728 ppb	10:10:12
2	Be 313.107†	10849.5	15024.8	5.1343 ug/L	5.1343 ppb	10:09:52
2	Cd 226.502†	290.6	496.4	5.1824 ug/L	5.1824 ppb	10:10:12
2	Co 228.616†	184.5	274.8	5.1213 ug/L	5.1213 ppb	10:10:12
2	Cr 267.716†	565.0	488.0	5.1934 ug/L	5.1934 ppb	10:09:52
2	Cu 324.752†	10358.6	3731.1	10.684 ug/L	10.684 ppb	10:09:52
2	Mn 257.610†	10620.8	10354.8	10.600 ug/L	10.600 ppb	10:09:52
2	Mo 202.031†	149.6	150.0	10.228 ug/L	10.228 ppb	10:10:12
2	Ni 231.604†	306.4	229.7	5.2168 ug/L	5.2168 ppb	10:10:12

2	P 214.914†	535.2	312.2	156.66 ug/L	156.66 ppb	10:10:12
2	Pb 220.353†	22.4	94.0	10.351 ug/L	10.351 ppb	10:10:12
2	S 181.975 Axial†	136.0	87.0	105.21 ug/L	105.21 ppb	10:10:12
2	Sb 206.836†	82.5	48.7	15.356 ug/L	15.356 ppb	10:10:12
2	Se 196.026†	26.8	56.9	31.140 ug/L	31.140 ppb	10:10:12
2	Si 251.611†	3911.4	3505.2	104.17 ug/L	104.17 ppb	10:09:52
2	Sn 189.927†	82.2	66.3	10.806 ug/L	10.806 ppb	10:10:12
2	Ti 334.940†	1520.7	3247.7	4.9693 ug/L	4.9693 ppb	10:09:52
2	Tl 190.801†	27.6	71.4	20.475 ug/L	20.475 ppb	10:10:12
2	U 409.014†	-2601.0	1668.4	54.122 ug/L	54.122 ppb	10:09:52
2	V 292.402†	-979.1	707.9	5.1463 ug/L	5.1463 ppb	10:09:52
2	Zn 213.857†	1905.1	1200.6	10.213 ug/L	10.213 ppb	10:10:12
2	SiO2†	3884.6	3434.9	218.95 ug/L	218.95 ppb	10:10:48
3	Sc Radial	3993.1	3993.1	101 %		10:09:20
3	Y RADIAL	4538.1	4538.1	99.99 %		10:09:00
3	Al 396.153Radial†	43.3	238.7	213.96 ug/L	213.96 ppb	10:09:00
3	Ca 317.933Radial†	126.0	108.7	215.53 ug/L	215.53 ppb	10:09:20
3	Fe 238.204 Radial†	22.4	10.4	123.47 ug/L	123.47 ppb	10:09:20
3	K 766.490 Radial†	4013.1	949.0	165.26 ug/L	165.26 ppb	10:09:00
3	Mg 279.077 IEC†	11.0	7.6	330.34 ug/L	330.34 ppb	10:09:20
3	Na 589.592 Radial†	-529.4	1060.1	303.98 ug/L	303.98 ppb	10:09:00
3	Sr 421.552†	775.5	768.7	5.1911 ug/L	5.1911 ppb	10:09:00
3	Sc 361.383	848117.2	848117.2	98.075 %		10:10:18
3	Y 371.029	675528.3	675528.3	99.038 %		10:10:18
3	Ag 328.068†	1494.8	1089.0	4.9597 ug/L	4.9597 ppb	10:10:18
3	As 188.979†	53.5	90.0	34.389 ug/L	34.389 ppb	10:10:38
3	B 249.677†	1854.3	2497.5	53.032 ug/L	53.032 ppb	10:10:18
3	Ba 233.527†	654.4	685.3	5.1775 ug/L	5.1775 ppb	10:10:38
3	Be 313.107†	10818.4	14974.8	5.1173 ug/L	5.1173 ppb	10:10:18
3	Cd 226.502†	278.2	483.3	5.0421 ug/L	5.0421 ppb	10:10:38
3	Co 228.616†	169.9	259.7	4.8408 ug/L	4.8408 ppb	10:10:38
3	Cr 267.716†	534.0	455.4	4.8475 ug/L	4.8475 ppb	10:10:18
3	Cu 324.752†	10327.5	3681.9	10.547 ug/L	10.547 ppb	10:10:18
3	Mn 257.610†	10695.9	10413.3	10.660 ug/L	10.660 ppb	10:10:18
3	Mo 202.031†	157.3	157.6	10.749 ug/L	10.749 ppb	10:10:38
3	Ni 231.604†	306.9	229.7	5.2161 ug/L	5.2161 ppb	10:10:38
3	P 214.914†	522.2	298.0	149.47 ug/L	149.47 ppb	10:10:38
3	Pb 220.353†	31.9	103.7	11.408 ug/L	11.408 ppb	10:10:38
3	S 181.975 Axial†	138.2	89.0	107.67 ug/L	107.67 ppb	10:10:38
3	Sb 206.836†	76.7	42.6	13.503 ug/L	13.503 ppb	10:10:38
3	Se 196.026†	33.6	63.7	34.938 ug/L	34.938 ppb	10:10:38
3	Si 251.611†	3897.5	3484.5	103.54 ug/L	103.54 ppb	10:10:18
3	Sn 189.927†	83.0	67.0	10.920 ug/L	10.920 ppb	10:10:38
3	Ti 334.940†	1547.4	3272.4	5.0024 ug/L	5.0024 ppb	10:10:18
3	Tl 190.801†	35.0	78.9	22.617 ug/L	22.617 ppb	10:10:38
3	U 409.014†	-2726.8	1544.5	50.099 ug/L	50.099 ppb	10:10:18
3	V 292.402†	-1011.8	676.2	4.9229 ug/L	4.9229 ppb	10:10:18
3	Zn 213.857†	1899.9	1192.1	10.138 ug/L	10.138 ppb	10:10:38
3	SiO2†	3890.4	3434.3	218.90 ug/L	218.90 ppb	10:10:53

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	848318.0	98.099 %	0.1982			0.20%
Sc Radial	3987.8	101 %	0.5			0.51%
Y 371.029	677366.2	99.307 %	0.3115			0.31%
Y RADIAL	4514.5	99.47 %	0.618			0.62%
Ag 328.068†	1132.1	5.1464 ug/L	0.40493	5.1464 ppb	0.40493	7.87%
QC value within limits for Ag 328.068 Recovery = 102.93%						
Al 396.153Radial†	244.5	219.10 ug/L	4.461	219.10 ppb	4.461	2.04%
QC value within limits for Al 396.153Radial Recovery = 109.55%						
As 188.979†	87.1	33.273 ug/L	1.9878	33.273 ppb	1.9878	5.97%
QC value within limits for As 188.979 Recovery = 110.91%						
B 249.677†	2479.1	52.645 ug/L	0.5122	52.645 ppb	0.5122	0.97%
QC value within limits for B 249.677 Recovery = 105.29%						
Ba 233.527†	693.0	5.2346 ug/L	0.05036	5.2346 ppb	0.05036	0.96%
QC value within limits for Ba 233.527 Recovery = 104.69%						
Be 313.107†	15007.2	5.1284 ug/L	0.00959	5.1284 ppb	0.00959	0.19%
QC value within limits for Be 313.107 Recovery = 102.57%						
Ca 317.933Radial†	109.9	217.86 ug/L	5.352	217.86 ppb	5.352	2.46%

QC value within limits for Ca 317.933 Radial Recovery = 108.93%

Cd 226.502†	483.0	5.0415 ug/L	0.14112	5.0415 ppb	0.14112	2.80%
QC value within limits for Cd 226.502 Recovery = 100.83%						
Co 228.616†	268.2	4.9991 ug/L	0.14374	4.9991 ppb	0.14374	2.88%
QC value within limits for Co 228.616 Recovery = 99.98%						
Cr 267.716†	491.3	5.2300 ug/L	0.40199	5.2300 ppb	0.40199	7.69%
QC value within limits for Cr 267.716 Recovery = 104.60%						
Cu 324.752†	3685.6	10.556 ug/L	0.1239	10.556 ppb	0.1239	1.17%
QC value within limits for Cu 324.752 Recovery = 105.56%						
Fe 238.204 Radial†	8.3	98.560 ug/L	22.8997	98.560 ppb	22.8997	23.23%
QC value within limits for Fe 238.204 Radial Recovery = 98.56%						
K 766.490 Radial†	913.1	158.98 ug/L	25.947	158.98 ppb	25.947	16.32%
QC value within limits for K 766.490 Radial Recovery = 105.99%						
Mg 279.077 IEC†	7.1	308.26 ug/L	40.368	308.26 ppb	40.368	13.10%
QC value within limits for Mg 279.077 IEC Recovery = 102.75%						
Mn 257.610†	10386.2	10.630 ug/L	0.0301	10.630 ppb	0.0301	0.28%
QC value within limits for Mn 257.610 Recovery = 106.30%						
Mo 202.031†	156.0	10.638 ug/L	0.3670	10.638 ppb	0.3670	3.45%
QC value within limits for Mo 202.031 Recovery = 106.38%						
Na 589.592 Radial†	1057.0	303.08 ug/L	16.030	303.08 ppb	16.030	5.29%
QC value within limits for Na 589.592 Radial Recovery = 101.03%						
Ni 231.604†	227.4	5.1645 ug/L	0.08993	5.1645 ppb	0.08993	1.74%
QC value within limits for Ni 231.604 Recovery = 103.29%						
P 214.914†	304.7	152.88 ug/L	3.609	152.88 ppb	3.609	2.36%
QC value within limits for P 214.914 Recovery = 101.92%						
Pb 220.353†	90.7	9.9846 ug/L	1.63750	9.9846 ppb	1.63750	16.40%
QC value within limits for Pb 220.353 Recovery = 99.85%						
S 181.975 Axial†	84.9	102.72 ug/L	6.560	102.72 ppb	6.560	6.39%
QC value within limits for S 181.975 Axial Recovery = 102.72%						
Sb 206.836†	41.1	13.033 ug/L	2.5898	13.033 ppb	2.5898	19.87%
QC value greater than the upper limit for Sb 206.836 Recovery = 130.33%						
Se 196.026†	59.7	32.676 ug/L	2.0000	32.676 ppb	2.0000	6.12%
QC value within limits for Se 196.026 Recovery = 108.92%						
Si 251.611†	3499.4	103.99 ug/L	0.388	103.99 ppb	0.388	0.37%
QC value within limits for Si 251.611 Recovery = 103.99%						
Sn 189.927†	63.8	10.393 ug/L	0.8167	10.393 ppb	0.8167	7.86%
QC value within limits for Sn 189.927 Recovery = 103.93%						
Sr 421.552†	769.0	5.1931 ug/L	0.00968	5.1931 ppb	0.00968	0.19%
QC value within limits for Sr 421.552 Recovery = 103.86%						
Ti 334.940†	3272.5	5.0043 ug/L	0.03601	5.0043 ppb	0.03601	0.72%
QC value within limits for Ti 334.940 Recovery = 100.09%						
Tl 190.801†	76.4	21.881 ug/L	1.2188	21.881 ppb	1.2188	5.57%
QC value within limits for Tl 190.801 Recovery = 109.41%						
U 409.014†	1558.1	50.544 ug/L	3.3772	50.544 ppb	3.3772	6.68%
QC value within limits for U 409.014 Recovery = 101.09%						
V 292.402†	669.9	4.8815 ug/L	0.28774	4.8815 ppb	0.28774	5.89%
QC value within limits for V 292.402 Recovery = 97.63%						
Zn 213.857†	1199.1	10.201 ug/L	0.0572	10.201 ppb	0.0572	0.56%
QC value within limits for Zn 213.857 Recovery = 102.01%						
SiO2†	3452.9	220.09 ug/L	2.011	220.09 ppb	2.011	0.91%
QC value within limits for SiO2 Recovery = 103.33%						

QC Failed. Continue with analysis.

Sequence No.: 9

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 2/3/2010 10:13:05

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	3654.5	3654.5	92.3 %		10:15:19
1	Y RADIAL	4018.7	4018.7	88.55 %		10:15:19
1	Al 396.153Radial†	544410.4	590113.1	530130 ug/L	530130 ppb	10:14:59
1	Ca 317.933Radial†	226696.6	245629.8	486990 ug/L	486990 ppb	10:14:59
1	Fe 238.204 Radial†	14367.2	15556.4	185280 ug/L	185280 ppb	10:15:19
1	K 766.490 Radial†	2691.7	-114.0	-182.77 ug/L	-182.77 ppb	10:14:59
1	Mg 279.077 IEC†	10378.0	11242.2	489050 ug/L	489050 ppb	10:15:19
1	Na 589.592 Radial†	-1387.8	81.3	23.319 ug/L	23.319 ppb	10:15:19
1	Sr 421.552†	526.1	569.7	0.2121 ug/L	0.2121 ppb	10:15:19
1	Sc 361.383	738717.5	738717.5	85.424 %		10:16:16
1	Y 371.029	571954.7	571954.7	83.853 %		10:16:16
1	Ag 328.068†	-9889.5	-12012.0	1.4427 ug/L	1.4427 ppb	10:16:16
1	As 188.979†	-115.3	-99.5	5.2983 ug/L	5.2983 ppb	10:16:36
1	B 249.677†	87.8	709.5	-15.016 ug/L	-15.016 ppb	10:16:16
1	Ba 233.527†	-649.0	-741.7	0.0828 ug/L	0.0828 ppb	10:16:36
1	Be 313.107†	-4122.3	-881.5	-0.3495 ug/L	-0.3495 ppb	10:16:16
1	Cd 226.502†	1189.3	1591.8	-2.5250 ug/L	-2.5250 ppb	10:16:36
1	Co 228.616†	-15.7	68.0	-1.4181 ug/L	-1.4181 ppb	10:16:36
1	Cr 267.716†	-130.9	-242.3	1.0262 ug/L	1.0262 ppb	10:16:36
1	Cu 324.752†	3630.2	-2598.7	2.3316 ug/L	2.3316 ppb	10:16:16
1	Mn 257.610†	645.9	263.6	-1.4344 ug/L	-1.4344 ppb	10:16:16
1	Mo 202.031†	-262.6	-310.2	-0.9560 ug/L	-0.9560 ppb	10:16:36
1	Ni 231.604†	205.7	157.6	3.5793 ug/L	3.5793 ppb	10:16:36
1	P 214.914†	218.2	21.0	-5.5597 ug/L	-5.5597 ppb	10:16:36
1	Pb 220.353†	-923.1	-1009.4	-5.7291 ug/L	-5.7291 ppb	10:16:36
1	S 181.975 Axial†	81.8	43.8	-46.381 ug/L	-46.381 ppb	10:16:36
1	Sb 206.836†	100.8	82.4	7.6346 ug/L	7.6346 ppb	10:16:36
1	Se 196.026†	-969.0	-1104.8	-34.653 ug/L	-34.653 ppb	10:16:36
1	Si 251.611†	388.2	-35.1	-0.7850 ug/L	-0.7850 ppb	10:16:36
1	Sn 189.927†	-348.4	-425.5	8.0398 ug/L	8.0398 ppb	10:16:36
1	Ti 334.940†	-13450.4	-14050.7	3.7734 ug/L	3.7734 ppb	10:16:16
1	Tl 190.801†	-95.4	-68.4	-19.773 ug/L	-19.773 ppb	10:16:36
1	U 409.014†	-2916.7	910.5	8.4309 ug/L	8.4309 ppb	10:16:16
1	V 292.402†	451.0	2235.8	-2.2338 ug/L	-2.2338 ppb	10:16:36
1	Zn 213.857†	3164.6	2959.4	7.3295 ug/L	7.3295 ppb	10:16:36
1	SiO2†	338.7	-135.9	-8.0992 ug/L	-8.0992 ppb	10:17:32
2	Sc Radial	3594.7	3594.7	90.8 %		10:15:44
2	Y RADIAL	3974.6	3974.6	87.58 %		10:15:44
2	Al 396.153Radial†	538841.8	593798.1	533440 ug/L	533440 ppb	10:15:24
2	Ca 317.933Radial†	224082.7	246839.1	489390 ug/L	489390 ppb	10:15:24
2	Fe 238.204 Radial†	14194.6	15625.3	186100 ug/L	186100 ppb	10:15:44
2	K 766.490 Radial†	2637.4	-125.3	-185.52 ug/L	-185.52 ppb	10:15:24
2	Mg 279.077 IEC†	10255.6	11294.6	491330 ug/L	491330 ppb	10:15:44
2	Na 589.592 Radial†	-1420.9	19.9	5.6973 ug/L	5.6973 ppb	10:15:44
2	Sr 421.552†	516.8	568.8	0.1884 ug/L	0.1884 ppb	10:15:44
2	Sc 361.383	745645.9	745645.9	86.226 %		10:16:41
2	Y 371.029	578706.3	578706.3	84.843 %		10:16:41
2	Ag 328.068†	-9669.9	-11649.8	3.3203 ug/L	3.3203 ppb	10:16:41
2	As 188.979†	-91.4	-70.5	16.557 ug/L	16.557 ppb	10:17:01
2	B 249.677†	94.4	716.2	-15.007 ug/L	-15.007 ppb	10:16:41
2	Ba 233.527†	-660.6	-748.1	0.0590 ug/L	0.0590 ppb	10:17:01
2	Be 313.107†	-4258.2	-994.3	-0.3880 ug/L	-0.3880 ppb	10:16:41
2	Cd 226.502†	1201.5	1593.0	-2.5940 ug/L	-2.5940 ppb	10:17:01
2	Co 228.616†	-19.4	63.9	-1.5111 ug/L	-1.5111 ppb	10:17:01
2	Cr 267.716†	-148.6	-261.4	0.8330 ug/L	0.8330 ppb	10:17:01
2	Cu 324.752†	3705.2	-2551.2	2.5044 ug/L	2.5044 ppb	10:16:41
2	Mn 257.610†	727.6	351.4	-1.3567 ug/L	-1.3567 ppb	10:16:41
2	Mo 202.031†	-291.4	-340.8	-2.9484 ug/L	-2.9484 ppb	10:17:01
2	Ni 231.604†	234.2	188.4	4.2804 ug/L	4.2804 ppb	10:17:01

2	P 214.914†	226.4	28.1	-1.8387 ug/L	-1.8387 ppb	10:17:01
2	Pb 220.353†	-939.9	-1018.9	-6.0986 ug/L	-6.0986 ppb	10:17:01
2	S 181.975 Axial†	71.2	30.6	-62.890 ug/L	-62.890 ppb	10:17:01
2	Sb 206.836†	84.5	62.5	1.2922 ug/L	1.2922 ppb	10:17:01
2	Se 196.026†	-984.3	-1112.1	-36.132 ug/L	-36.132 ppb	10:17:01
2	Si 251.611†	408.2	-16.2	-0.1957 ug/L	-0.1957 ppb	10:17:01
2	Sn 189.927†	-368.3	-444.7	5.2936 ug/L	5.2936 ppb	10:17:01
2	Ti 334.940†	-13567.3	-14040.1	3.9195 ug/L	3.9195 ppb	10:16:41
2	Tl 190.801†	-80.5	-50.2	-14.550 ug/L	-14.550 ppb	10:17:01
2	U 409.014†	-2603.6	1305.2	21.149 ug/L	21.149 ppb	10:16:41
2	V 292.402†	431.0	2207.7	-2.5094 ug/L	-2.5094 ppb	10:17:01
2	Zn 213.857†	3170.3	2931.6	7.0074 ug/L	7.0074 ppb	10:17:01
2	SiO2†	838.2	439.7	28.698 ug/L	28.698 ppb	10:17:37
3	Sc Radial	3620.7	3620.7	91.4 %		10:16:09
3	Y RADIAL	3997.8	3997.8	88.09 %		10:16:09
3	Al 396.153Radial†	531228.5	581210.4	522130 ug/L	522130 ppb	10:15:49
3	Ca 317.933Radial†	220886.0	241570.9	478950 ug/L	478950 ppb	10:15:49
3	Fe 238.204 Radial†	14237.6	15560.1	185320 ug/L	185320 ppb	10:16:09
3	K 766.490 Radial†	2644.2	-138.8	-184.39 ug/L	-184.39 ppb	10:15:49
3	Mg 279.077 IEC†	10294.4	11255.9	489650 ug/L	489650 ppb	10:16:09
3	Na 589.592 Radial†	-1388.9	66.1	18.944 ug/L	18.944 ppb	10:16:09
3	Sr 421.552†	502.8	549.5	0.1357 ug/L	0.1357 ppb	10:16:09
3	Sc 361.383	737054.4	737054.4	85.232 %		10:17:07
3	Y 371.029	570823.1	570823.1	83.687 %		10:17:07
3	Ag 328.068†	-9809.7	-11944.6	1.8749 ug/L	1.8749 ppb	10:17:07
3	As 188.979†	-102.2	-84.4	11.081 ug/L	11.081 ppb	10:17:27
3	B 249.677†	179.0	816.8	-12.743 ug/L	-12.743 ppb	10:17:07
3	Ba 233.527†	-639.4	-732.2	0.1563 ug/L	0.1563 ppb	10:17:27
3	Be 313.107†	-4286.8	-1085.5	-0.4184 ug/L	-0.4184 ppb	10:17:07
3	Cd 226.502†	1218.3	1629.0	-2.1411 ug/L	-2.1411 ppb	10:17:27
3	Co 228.616†	-38.5	41.2	-1.9167 ug/L	-1.9167 ppb	10:17:27
3	Cr 267.716†	-127.0	-238.1	1.0724 ug/L	1.0724 ppb	10:17:27
3	Cu 324.752†	3810.1	-2378.0	2.9682 ug/L	2.9682 ppb	10:17:07
3	Mn 257.610†	668.2	291.6	-1.4259 ug/L	-1.4259 ppb	10:17:07
3	Mo 202.031†	-263.2	-311.7	-1.1500 ug/L	-1.1500 ppb	10:17:27
3	Ni 231.604†	226.6	182.7	4.1510 ug/L	4.1510 ppb	10:17:27
3	P 214.914†	193.1	-7.9	-22.433 ug/L	-22.433 ppb	10:17:27
3	Pb 220.353†	-918.8	-1006.8	-7.3114 ug/L	-7.3114 ppb	10:17:27
3	S 181.975 Axial†	72.4	33.0	-57.875 ug/L	-57.875 ppb	10:17:27
3	Sb 206.836†	91.5	71.8	4.5179 ug/L	4.5179 ppb	10:17:27
3	Se 196.026†	-972.4	-1111.3	-37.960 ug/L	-37.960 ppb	10:17:27
3	Si 251.611†	406.6	-12.5	-0.1102 ug/L	-0.1102 ppb	10:17:27
3	Sn 189.927†	-364.0	-444.7	3.6901 ug/L	3.6901 ppb	10:17:27
3	Ti 334.940†	-13243.2	-13843.2	2.9644 ug/L	2.9644 ppb	10:17:07
3	Tl 190.801†	-93.6	-66.6	-19.252 ug/L	-19.252 ppb	10:17:27
3	U 409.014†	-2948.7	865.1	6.9546 ug/L	6.9546 ppb	10:17:07
3	V 292.402†	455.1	2241.8	-2.1921 ug/L	-2.1921 ppb	10:17:27
3	Zn 213.857†	3147.0	2947.2	7.2156 ug/L	7.2156 ppb	10:17:27
3	SiO2†	620.2	195.2	13.039 ug/L	13.039 ppb	10:17:42

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	740472.6	85.627 %	0.5269			0.62%
Sc Radial	3623.3	91.5 %	0.76			0.83%
Y 371.029	573828.1	84.128 %	0.6249			0.74%
Y RADIAL	3997.0	88.07 %	0.486			0.55%
Ag 328.068†	-11868.8	2.2126 ug/L	0.98330	2.2126 ppb	0.98330	44.44%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	588373.8	528570 ug/L	5813.8	528570 ppb	5813.8	1.10%
QC value within limits for Al 396.153Radial Recovery = 105.71%						
As 188.979†	-84.8	10.979 ug/L	5.6301	10.979 ppb	5.6301	51.28%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	747.5	-14.255 ug/L	1.3097	-14.255 ppb	1.3097	9.19%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-740.7	0.0994 ug/L	0.05073	0.0994 ppb	0.05073	51.04%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-987.1	-0.3853 ug/L	0.03449	-0.3853 ppb	0.03449	8.95%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	244679.9	485110 ug/L	5471.2	485110 ppb	5471.2	1.13%

QC value within limits for Ca 317.933 Radial Recovery = 97.02%

Cd 226.502† 1604.6 -2.4200 ug/L 0.24404 -2.4200 ppb 0.24404 10.08%

QC value within limits for Cd 226.502 Recovery = Not calculated

Co 228.616† 57.7 -1.6153 ug/L 0.26512 -1.6153 ppb 0.26512 16.41%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716† -247.3 0.9772 ug/L 0.12700 0.9772 ppb 0.12700 13.00%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752† -2509.3 2.6014 ug/L 0.32923 2.6014 ppb 0.32923 12.66%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 238.204 Radial† 15580.6 185570 ug/L 461.6 185570 ppb 461.6 0.25%

QC value within limits for Fe 238.204 Radial Recovery = 92.78%

K 766.490 Radial† -126.0 -184.23 ug/L 1.386 -184.23 ppb 1.386 0.75%

QC value within limits for K 766.490 Radial Recovery = Not calculated

Mg 279.077 IEC† 11264.2 490010 ug/L 1182.0 490010 ppb 1182.0 0.24%

QC value within limits for Mg 279.077 IEC Recovery = 98.00%

Mn 257.610† 302.2 -1.4057 ug/L 0.04263 -1.4057 ppb 0.04263 3.03%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031† -320.9 -1.6848 ug/L 1.09861 -1.6848 ppb 1.09861 65.21%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592 Radial† 55.8 15.987 ug/L 9.1754 15.987 ppb 9.1754 57.39%

QC value within limits for Na 589.592 Radial Recovery = Not calculated

Ni 231.604† 176.2 4.0036 ug/L 0.37310 4.0036 ppb 0.37310 9.32%

QC value within limits for Ni 231.604 Recovery = Not calculated

P 214.914† 13.7 -9.9439 ug/L 10.97496 -9.9439 ppb 10.97496 110.37%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353† -1011.7 -6.3797 ug/L 0.82775 -6.3797 ppb 0.82775 12.97%

QC value within limits for Pb 220.353 Recovery = Not calculated

S 181.975 Axial† 35.8 -55.715 ug/L 8.4636 -55.715 ppb 8.4636 15.19%

QC value within limits for S 181.975 Axial Recovery = Not calculated

Sb 206.836† 72.2 4.4816 ug/L 3.17136 4.4816 ppb 3.17136 70.76%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026† -1109.4 -36.249 ug/L 1.6565 -36.249 ppb 1.6565 4.57%

QC value within limits for Se 196.026 Recovery = Not calculated

Si 251.611† -21.3 -0.3636 ug/L 0.36739 -0.3636 ppb 0.36739 101.03%

QC value within limits for Si 251.611 Recovery = Not calculated

Sn 189.927† -438.3 5.6745 ug/L 2.19973 5.6745 ppb 2.19973 38.77%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 421.552† 562.7 0.1787 ug/L 0.03912 0.1787 ppb 0.03912 21.89%

QC value within limits for Sr 421.552 Recovery = Not calculated

Ti 334.940† -13978.0 3.5524 ug/L 0.51444 3.5524 ppb 0.51444 14.48%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801† -61.8 -17.858 ug/L 2.8770 -17.858 ppb 2.8770 16.11%

QC value within limits for Tl 190.801 Recovery = Not calculated

U 409.014† 1026.9 12.178 ug/L 7.8037 12.178 ppb 7.8037 64.08%

QC value within limits for U 409.014 Recovery = Not calculated

V 292.402† 2228.4 -2.3118 ug/L 0.17243 -2.3118 ppb 0.17243 7.46%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857† 2946.1 7.1842 ug/L 0.16334 7.1842 ppb 0.16334 2.27%

QC value within limits for Zn 213.857 Recovery = Not calculated

SiO2† 166.3 11.212 ug/L 18.4663 11.212 ppb 18.4663 164.69%

QC value within limits for SiO2 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 10
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 14
 Date Collected: 2/3/2010 10:19:54
 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	3635.2	3635.2	91.8 %		10:22:06
1	Y RADIAL	4009.8	4009.8	88.35 %		10:22:06
1	Al 396.153Radial†	535703.1	583765.1	524410 ug/L	524410 ppb	10:21:46
1	Ca 317.933Radial†	223942.1	243935.6	483640 ug/L	483640 ppb	10:21:46
1	Fe 238.204 Radial†	14602.9	15895.9	189340 ug/L	189340 ppb	10:22:06
1	K 766.490 Radial†	31121.9	30872.0	5217.8 ug/L	5217.8 ppb	10:21:46
1	Mg 279.077 IEC†	10461.7	11393.2	495620 ug/L	495620 ppb	10:22:06
1	Na 589.592 Radial†	15613.6	18593.8	5331.5 ug/L	5331.5 ppb	10:21:46
1	Sr 421.552†	67406.8	73429.3	492.44 ug/L	492.44 ppb	10:21:46
1	Sc 361.383	756509.8	756509.8	87.482 %		10:23:05
1	Y 371.029	584077.3	584077.3	85.630 %		10:23:05
1	Ag 328.068†	41460.3	46957.9	272.11 ug/L	272.11 ppb	10:23:05
1	As 188.979†	1058.5	1245.4	522.38 ug/L	522.38 ppb	10:23:25
1	B 249.677†	21229.9	24874.5	496.51 ug/L	496.51 ppb	10:23:05
1	Ba 233.527†	55750.8	63746.4	487.19 ug/L	487.19 ppb	10:23:05
1	Be 313.107†	618441.7	710880.6	243.47 ug/L	243.47 ppb	10:23:05
1	Cd 226.502†	40508.8	46505.0	465.95 ug/L	465.95 ppb	10:23:05
1	Co 228.616†	20718.4	23769.5	439.28 ug/L	439.28 ppb	10:23:25
1	Cr 267.716†	39283.6	44815.8	482.31 ug/L	482.31 ppb	10:23:05
1	Cu 324.752†	170367.4	187897.5	549.04 ug/L	549.04 ppb	10:23:05
1	Mn 257.610†	407636.0	465473.6	474.97 ug/L	474.97 ppb	10:23:05
1	Mo 202.031†	5883.7	6722.8	478.49 ug/L	478.49 ppb	10:23:25
1	Ni 231.604†	17354.2	19754.3	448.58 ug/L	448.58 ppb	10:23:25
1	P 214.914†	4481.1	4887.8	2359.8 ug/L	2359.8 ppb	10:23:25
1	Pb 220.353†	2740.6	3203.9	454.41 ug/L	454.41 ppb	10:23:25
1	S 181.975 Axial†	1942.9	2169.0	2526.3 ug/L	2526.3 ppb	10:23:25
1	Sb 206.836†	1531.1	1714.7	527.55 ug/L	527.55 ppb	10:23:25
1	Se 196.026†	3015.5	3476.5	2461.6 ug/L	2461.6 ppb	10:23:25
1	Si 251.611†	149993.4	170966.9	5081.2 ug/L	5081.2 ppb	10:23:05
1	Sn 189.927†	2198.6	2495.6	481.88 ug/L	481.88 ppb	10:23:25
1	Ti 334.940†	271244.7	311752.6	502.61 ug/L	502.61 ppb	10:23:05
1	Tl 190.801†	1287.0	1514.3	436.10 ug/L	436.10 ppb	10:23:25
1	U 409.014†	10692.3	16547.0	514.35 ug/L	514.35 ppb	10:23:05
1	V 292.402†	62964.6	73682.2	500.29 ug/L	500.29 ppb	10:23:05
1	Zn 213.857†	53507.2	60418.7	494.87 ug/L	494.87 ppb	10:23:05
1	SiO2†	149301.8	170133.4	10846 ug/L	10846 ppb	10:24:22
2	Sc Radial	3633.2	3633.2	91.7 %		10:22:32
2	Y RADIAL	3984.6	3984.6	87.80 %		10:22:32
2	Al 396.153Radial†	534658.8	582939.5	523660 ug/L	523660 ppb	10:22:12
2	Ca 317.933Radial†	223663.7	243762.8	483290 ug/L	483290 ppb	10:22:12
2	Fe 238.204 Radial†	14491.4	15782.8	187990 ug/L	187990 ppb	10:22:32
2	K 766.490 Radial†	31046.7	30808.2	5206.8 ug/L	5206.8 ppb	10:22:12
2	Mg 279.077 IEC†	10377.4	11307.3	491890 ug/L	491890 ppb	10:22:32
2	Na 589.592 Radial†	15650.1	18642.7	5345.5 ug/L	5345.5 ppb	10:22:12
2	Sr 421.552†	67385.0	73444.8	492.55 ug/L	492.55 ppb	10:22:12
2	Sc 361.383	762643.1	762643.1	88.191 %		10:23:31
2	Y 371.029	589854.1	589854.1	86.477 %		10:23:31
2	Ag 328.068†	41792.7	46953.6	271.63 ug/L	271.63 ppb	10:23:31
2	As 188.979†	1051.3	1227.5	515.25 ug/L	515.25 ppb	10:23:51
2	B 249.677†	21392.5	24863.8	496.52 ug/L	496.52 ppb	10:23:31
2	Ba 233.527†	56013.0	63531.2	485.52 ug/L	485.52 ppb	10:23:31
2	Be 313.107†	622382.1	709663.4	243.06 ug/L	243.06 ppb	10:23:31
2	Cd 226.502†	40722.4	46374.8	464.73 ug/L	464.73 ppb	10:23:31
2	Co 228.616†	20630.7	23479.6	433.90 ug/L	433.90 ppb	10:23:51
2	Cr 267.716†	39391.3	44576.7	479.73 ug/L	479.73 ppb	10:23:31
2	Cu 324.752†	171443.2	187551.3	547.97 ug/L	547.97 ppb	10:23:31
2	Mn 257.610†	409625.7	463982.3	473.46 ug/L	473.46 ppb	10:23:31
2	Mo 202.031†	5880.9	6665.5	474.48 ug/L	474.48 ppb	10:23:51
2	Ni 231.604†	17241.2	19466.6	442.05 ug/L	442.05 ppb	10:23:51

2	P 214.914†	4459.3	4821.9	2327.4 ug/L	2327.4 ppb	10:23:51
2	Pb 220.353†	2684.6	3115.2	444.66 ug/L	444.66 ppb	10:23:51
2	S 181.975 Axial†	1915.5	2120.1	2467.2 ug/L	2467.2 ppb	10:23:51
2	Sb 206.836†	1509.5	1676.0	515.57 ug/L	515.57 ppb	10:23:51
2	Se 196.026†	2999.8	3430.9	2432.8 ug/L	2432.8 ppb	10:23:51
2	Si 251.611†	150708.8	170399.2	5064.4 ug/L	5064.4 ppb	10:23:31
2	Sn 189.927†	2209.3	2487.5	480.49 ug/L	480.49 ppb	10:23:51
2	Ti 334.940†	273315.3	311607.0	502.65 ug/L	502.65 ppb	10:23:31
2	Tl 190.801†	1305.8	1523.9	438.84 ug/L	438.84 ppb	10:23:51
2	U 409.014†	10895.2	16678.9	518.79 ug/L	518.79 ppb	10:23:31
2	V 292.402†	63274.2	73454.5	498.79 ug/L	498.79 ppb	10:23:31
2	Zn 213.857†	53925.5	60401.1	494.89 ug/L	494.89 ppb	10:23:31
2	SiO2†	149959.9	169507.1	10806 ug/L	10806 ppb	10:24:28
3	Sc Radial	3637.5	3637.5	91.9 %		10:22:57
3	Y RADIAL	4009.7	4009.7	88.35 %		10:22:57
3	Al 396.153Radial†	535171.9	582806.7	523550 ug/L	523550 ppb	10:22:37
3	Ca 317.933Radial†	223578.5	243380.8	482540 ug/L	482540 ppb	10:22:37
3	Fe 238.204 Radial†	14536.7	15813.5	188350 ug/L	188350 ppb	10:22:57
3	K 766.490 Radial†	31082.8	30807.3	5206.9 ug/L	5206.9 ppb	10:22:37
3	Mg 279.077 IEC†	10430.4	11351.7	493820 ug/L	493820 ppb	10:22:57
3	Na 589.592 Radial†	15631.7	18602.4	5334.0 ug/L	5334.0 ppb	10:22:37
3	Sr 421.552†	67420.3	73396.2	492.22 ug/L	492.22 ppb	10:22:37
3	Sc 361.383	751352.9	751352.9	86.886 %		10:23:57
3	Y 371.029	579303.8	579303.8	84.930 %		10:23:57
3	Ag 328.068†	41361.7	47169.7	272.75 ug/L	272.75 ppb	10:23:57
3	As 188.979†	1046.3	1239.7	519.97 ug/L	519.97 ppb	10:24:17
3	B 249.677†	21107.8	24900.5	497.22 ug/L	497.22 ppb	10:23:57
3	Ba 233.527†	55547.2	63949.5	488.69 ug/L	488.69 ppb	10:23:57
3	Be 313.107†	611843.6	708138.7	242.54 ug/L	242.54 ppb	10:23:57
3	Cd 226.502†	40330.1	46617.1	467.23 ug/L	467.23 ppb	10:23:57
3	Co 228.616†	20694.8	23904.9	441.82 ug/L	441.82 ppb	10:24:17
3	Cr 267.716†	39104.8	44918.2	483.38 ug/L	483.38 ppb	10:23:57
3	Cu 324.752†	169312.5	188020.1	549.34 ug/L	549.34 ppb	10:23:57
3	Mn 257.610†	409275.0	470558.1	480.15 ug/L	480.15 ppb	10:23:57
3	Mo 202.031†	5880.5	6765.3	481.30 ug/L	481.30 ppb	10:24:17
3	Ni 231.604†	17347.2	19882.4	451.49 ug/L	451.49 ppb	10:24:17
3	P 214.914†	4471.5	4912.0	2372.6 ug/L	2372.6 ppb	10:24:17
3	Pb 220.353†	2724.3	3206.7	454.61 ug/L	454.61 ppb	10:24:17
3	S 181.975 Axial†	1923.2	2161.6	2517.5 ug/L	2517.5 ppb	10:24:17
3	Sb 206.836†	1528.3	1723.4	530.40 ug/L	530.40 ppb	10:24:17
3	Se 196.026†	3025.7	3511.9	2477.8 ug/L	2477.8 ppb	10:24:17
3	Si 251.611†	150146.4	172319.7	5121.4 ug/L	5121.4 ppb	10:23:57
3	Sn 189.927†	2210.3	2526.2	486.67 ug/L	486.67 ppb	10:24:17
3	Ti 334.940†	269790.5	312207.0	503.31 ug/L	503.31 ppb	10:23:57
3	Tl 190.801†	1297.5	1536.6	442.49 ug/L	442.49 ppb	10:24:17
3	U 409.014†	10585.1	16507.6	513.18 ug/L	513.18 ppb	10:23:57
3	V 292.402†	62518.9	73663.3	500.31 ug/L	500.31 ppb	10:23:57
3	Zn 213.857†	53458.4	60782.2	498.06 ug/L	498.06 ppb	10:23:57
3	SiO2†	148472.2	170350.0	10860 ug/L	10860 ppb	10:24:33

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	756835.3	87.520 %	0.6536			0.75%
Sc Radial	3635.3	91.8 %	0.05			0.06%
Y 371.029	584411.7	85.679 %	0.7745			0.90%
Y RADIAL	4001.3	88.17 %	0.320			0.36%
Ag 328.068†	47027.1	272.16 ug/L	0.564	272.16 ppb	0.564	0.21%
QC value within limits for Ag 328.068 Recovery = 108.86%						
Al 396.153Radial†	583170.5	523870 ug/L	466.5	523870 ppb	466.5	0.09%
QC value within limits for Al 396.153Radial Recovery = 104.77%						
As 188.979†	1237.5	519.20 ug/L	3.628	519.20 ppb	3.628	0.70%
QC value within limits for As 188.979 Recovery = 103.84%						
B 249.677†	24879.6	496.75 ug/L	0.405	496.75 ppb	0.405	0.08%
QC value within limits for B 249.677 Recovery = 99.35%						
Ba 233.527†	63742.3	487.13 ug/L	1.584	487.13 ppb	1.584	0.33%
QC value within limits for Ba 233.527 Recovery = 97.43%						
Be 313.107†	709560.9	243.02 ug/L	0.468	243.02 ppb	0.468	0.19%
QC value within limits for Be 313.107 Recovery = 97.21%						
Ca 317.933Radial†	243693.1	483150 ug/L	562.8	483150 ppb	562.8	0.12%

QC value within limits for Ca 317.933 Radial Recovery = 96.63%					
Cd 226.502†	46499.0	465.97 ug/L	1.248	465.97 ppb	1.248 0.27%
QC value within limits for Cd 226.502 Recovery = 93.19%					
Co 228.616†	23718.0	438.33 ug/L	4.042	438.33 ppb	4.042 0.92%
QC value within limits for Co 228.616 Recovery = 87.67%					
Cr 267.716†	44770.2	481.81 ug/L	1.878	481.81 ppb	1.878 0.39%
QC value within limits for Cr 267.716 Recovery = 96.36%					
Cu 324.752†	187823.0	548.78 ug/L	0.719	548.78 ppb	0.719 0.13%
QC value within limits for Cu 324.752 Recovery = 109.76%					
Fe 238.204 Radial†	15830.7	188560 ug/L	696.5	188560 ppb	696.5 0.37%
QC value within limits for Fe 238.204 Radial Recovery = 94.28%					
K 766.490 Radial†	30829.2	5210.5 ug/L	6.33	5210.5 ppb	6.33 0.12%
QC value within limits for K 766.490 Radial Recovery = 104.21%					
Mg 279.077 IEC†	11350.7	493770 ug/L	1867.6	493770 ppb	1867.6 0.38%
QC value within limits for Mg 279.077 IEC Recovery = 98.75%					
Mn 257.610†	466671.3	476.19 ug/L	3.509	476.19 ppb	3.509 0.74%
QC value within limits for Mn 257.610 Recovery = 95.24%					
Mo 202.031†	6717.9	478.09 ug/L	3.427	478.09 ppb	3.427 0.72%
QC value within limits for Mo 202.031 Recovery = 95.62%					
Na 589.592 Radial†	18613.0	5337.0 ug/L	7.48	5337.0 ppb	7.48 0.14%
QC value within limits for Na 589.592 Radial Recovery = 106.74%					
Ni 231.604†	19701.1	447.37 ug/L	4.836	447.37 ppb	4.836 1.08%
QC value within limits for Ni 231.604 Recovery = 89.47%					
P 214.914†	4873.9	2353.3 ug/L	23.32	2353.3 ppb	23.32 0.99%
QC value within limits for P 214.914 Recovery = 94.13%					
Pb 220.353†	3175.3	451.23 ug/L	5.687	451.23 ppb	5.687 1.26%
QC value within limits for Pb 220.353 Recovery = 90.25%					
S 181.975 Axial†	2150.2	2503.7 ug/L	31.88	2503.7 ppb	31.88 1.27%
QC value within limits for S 181.975 Axial Recovery = 100.15%					
Sb 206.836†	1704.7	524.50 ug/L	7.869	524.50 ppb	7.869 1.50%
QC value within limits for Sb 206.836 Recovery = 104.90%					
Se 196.026†	3473.1	2457.4 ug/L	22.81	2457.4 ppb	22.81 0.93%
QC value within limits for Se 196.026 Recovery = 98.30%					
Si 251.611†	171228.6	5089.0 ug/L	29.32	5089.0 ppb	29.32 0.58%
QC value within limits for Si 251.611 Recovery = 101.78%					
Sn 189.927†	2503.1	483.02 ug/L	3.244	483.02 ppb	3.244 0.67%
QC value within limits for Sn 189.927 Recovery = 96.60%					
Sr 421.552†	73423.4	492.40 ug/L	0.165	492.40 ppb	0.165 0.03%
QC value within limits for Sr 421.552 Recovery = 98.48%					
Ti 334.940†	311855.5	502.86 ug/L	0.393	502.86 ppb	0.393 0.08%
QC value within limits for Ti 334.940 Recovery = 100.57%					
Tl 190.801†	1524.9	439.14 ug/L	3.202	439.14 ppb	3.202 0.73%
QC value within limits for Tl 190.801 Recovery = 87.83%					
U 409.014†	16577.8	515.44 ug/L	2.959	515.44 ppb	2.959 0.57%
QC value within limits for U 409.014 Recovery = 103.09%					
V 292.402†	73600.0	499.80 ug/L	0.872	499.80 ppb	0.872 0.17%
QC value within limits for V 292.402 Recovery = 99.96%					
Zn 213.857†	60534.0	495.94 ug/L	1.833	495.94 ppb	1.833 0.37%
QC value within limits for Zn 213.857 Recovery = 99.19%					
SiO2†	169996.8	10837 ug/L	27.8	10837 ppb	27.8 0.26%
QC value within limits for SiO2 Recovery = 101.33%					

All analyte(s) passed QC.

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

Autosampler Location: 15
 Date Collected: 2/3/2010 10:26:43
 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	3435.1	3435.1	86.7 %		10:28:56
1	Y RADIAL	3790.6	3790.6	83.52 %		10:28:56
1	Al 396.153Radial†	508107.0	585948.9	526390 ug/L	526390 ppb	10:28:36
1	Ca 317.933Radial†	214631.9	247414.5	490530 ug/L	490530 ppb	10:28:36
1	Fe 238.204 Radial†	32845.6	37853.1	450840 ug/L	450840 ppb	10:28:56
1	K 766.490 Radial†	3868.1	1428.5	-119.73 ug/L	-119.73 ppb	10:28:36
1	Mg 279.077 IEC†	9864.2	11368.3	494260 ug/L	494260 ppb	10:28:56
1	Na 589.592 Radial†	1586653.0	1830701.8	524920 ug/L	524920 ppb	10:28:36
1	Sr 421.552†	721.4	831.2	1.9524 ug/L	1.9524 ppb	10:28:56
1	Sc 361.383	727358.3	727358.3	84.111 %		10:29:55
1	Y 371.029	565376.7	565376.7	82.889 %		10:29:55
1	Ag 328.068†	-23518.6	-28396.6	5.3235 ug/L	5.3235 ppb	10:29:55
1	As 188.979†	-213.9	-218.8	22.139 ug/L	22.139 ppb	10:30:15
1	B 249.677†	1027.8	1828.8	-34.374 ug/L	-34.374 ppb	10:29:55
1	Ba 233.527†	-1767.1	-2082.9	-1.9113 ug/L	-1.9113 ppb	10:30:15
1	Be 313.107†	-9311.0	-7125.9	-2.4577 ug/L	-2.4577 ppb	10:29:55
1	Cd 226.502†	3109.1	3896.0	-3.1956 ug/L	-3.1956 ppb	10:30:15
1	Co 228.616†	211.4	337.7	-0.3167 ug/L	-0.3167 ppb	10:30:15
1	Cr 267.716†	-79.5	-183.6	1.2936 ug/L	1.2936 ppb	10:30:15
1	Cu 324.752†	486.4	-6270.1	-1.8860 ug/L	-1.8860 ppb	10:29:55
1	Mn 257.610†	-23327.7	-28226.9	-4.5988 ug/L	-4.5988 ppb	10:29:55
1	Mo 202.031†	-544.8	-650.5	-3.4843 ug/L	-3.4843 ppb	10:30:15
1	Ni 231.604†	305.3	279.8	6.3542 ug/L	6.3542 ppb	10:30:15
1	P 214.914†	583.6	459.4	4.4997 ug/L	4.4997 ppb	10:30:15
1	Pb 220.353†	-636.6	-685.6	3.5306 ug/L	3.5306 ppb	10:30:15
1	S 181.975 Axial†	101.3	68.5	-15.792 ug/L	-15.792 ppb	10:30:15
1	Sb 206.836†	65.6	42.4	-8.1387 ug/L	-8.1387 ppb	10:30:15
1	Se 196.026†	-2246.6	-2641.5	-47.636 ug/L	-47.636 ppb	10:30:15
1	Si 251.611†	-505.0	-1089.9	-31.883 ug/L	-31.883 ppb	10:30:15
1	Sn 189.927†	-386.7	-477.4	4.6122 ug/L	4.6122 ppb	10:30:15
1	Ti 334.940†	-8180.5	-8031.3	6.9048 ug/L	6.9048 ppb	10:29:55
1	Tl 190.801†	-119.5	-98.8	-28.567 ug/L	-28.567 ppb	10:30:15
1	U 409.014†	359290.7	431488.0	13952 ug/L	13952 ppb	10:29:55
1	V 292.402†	2166.1	4283.1	-0.1875 ug/L	-0.1875 ppb	10:30:15
1	Zn 213.857†	5821.8	6176.5	9.0845 ug/L	9.0845 ppb	10:30:15
1	SiO2†	-461.5	-1081.1	-67.795 ug/L	-67.795 ppb	10:31:12
2	Sc Radial	3434.1	3434.1	86.7 %		10:29:22
2	Y RADIAL	3790.9	3790.9	83.53 %		10:29:22
2	Al 396.153Radial†	503932.0	581296.8	522210 ug/L	522210 ppb	10:29:02
2	Ca 317.933Radial†	212435.5	244950.4	485650 ug/L	485650 ppb	10:29:02
2	Fe 238.204 Radial†	32680.1	37672.7	448690 ug/L	448690 ppb	10:29:22
2	K 766.490 Radial†	4132.5	1734.6	-62.946 ug/L	-62.946 ppb	10:29:02
2	Mg 279.077 IEC†	9820.3	11320.8	492190 ug/L	492190 ppb	10:29:22
2	Na 589.592 Radial†	1572322.8	1814683.8	520330 ug/L	520330 ppb	10:29:02
2	Sr 421.552†	701.4	808.4	1.8348 ug/L	1.8348 ppb	10:29:22
2	Sc 361.383	713039.0	713039.0	82.455 %		10:30:20
2	Y 371.029	554942.6	554942.6	81.359 %		10:30:20
2	Ag 328.068†	-23023.8	-28358.0	4.7941 ug/L	4.7941 ppb	10:30:20
2	As 188.979†	-221.8	-233.5	16.042 ug/L	16.042 ppb	10:30:41
2	B 249.677†	966.6	1779.1	-35.080 ug/L	-35.080 ppb	10:30:20
2	Ba 233.527†	-1723.1	-2071.8	-1.8924 ug/L	-1.8924 ppb	10:30:41
2	Be 313.107†	-9209.5	-7225.1	-2.4905 ug/L	-2.4905 ppb	10:30:20
2	Cd 226.502†	3055.0	3904.7	-2.8727 ug/L	-2.8727 ppb	10:30:41
2	Co 228.616†	195.7	323.8	-0.5428 ug/L	-0.5428 ppb	10:30:41
2	Cr 267.716†	-142.7	-262.1	0.3920 ug/L	0.3920 ppb	10:30:41
2	Cu 324.752†	341.0	-6434.8	-2.5042 ug/L	-2.5042 ppb	10:30:20
2	Mn 257.610†	-23015.9	-28405.7	-4.9094 ug/L	-4.9094 ppb	10:30:20
2	Mo 202.031†	-520.8	-634.4	-2.6140 ug/L	-2.6140 ppb	10:30:41
2	Ni 231.604†	258.4	230.2	5.2262 ug/L	5.2262 ppb	10:30:41

2	P 214.914†	579.1	467.9	9.5741 ug/L	9.5741 ppb	10:30:41
2	Pb 220.353†	-646.5	-712.9	-0.2282 ug/L	-0.2282 ppb	10:30:41
2	S 181.975 Axial†	92.0	59.6	-25.745 ug/L	-25.745 ppb	10:30:41
2	Sb 206.836†	93.1	77.3	2.7024 ug/L	2.7024 ppb	10:30:41
2	Se 196.026†	-2256.4	-2707.0	-89.689 ug/L	-89.689 ppb	10:30:41
2	Si 251.611†	-512.3	-1110.8	-32.519 ug/L	-32.519 ppb	10:30:41
2	Sn 189.927†	-399.9	-502.6	-0.2511 ug/L	-0.2511 ppb	10:30:41
2	Ti 334.940†	-7794.5	-7758.4	6.8125 ug/L	6.8125 ppb	10:30:20
2	Tl 190.801†	-117.8	-99.7	-28.802 ug/L	-28.802 ppb	10:30:41
2	U 409.014†	353671.8	433251.7	14009 ug/L	14009 ppb	10:30:20
2	V 292.402†	2151.8	4317.5	0.4490 ug/L	0.4490 ppb	10:30:41
2	Zn 213.857†	5705.0	6173.8	9.2780 ug/L	9.2780 ppb	10:30:41
2	SiO2†	-582.1	-1238.3	-77.859 ug/L	-77.859 ppb	10:31:17
3	Sc Radial	3476.5	3476.5	87.8 %		10:29:48
3	Y RADIAL	3845.9	3845.9	84.74 %		10:29:48
3	Al 396.153Radial†	498024.1	567483.1	509800 ug/L	509800 ppb	10:29:28
3	Ca 317.933Radial†	209646.1	238786.5	473430 ug/L	473430 ppb	10:29:28
3	Fe 238.204 Radial†	33000.5	37578.3	447570 ug/L	447570 ppb	10:29:48
3	K 766.490 Radial†	5041.8	2712.3	117.19 ug/L	117.19 ppb	10:29:28
3	Mg 279.077 IEC†	9915.1	11290.8	490890 ug/L	490890 ppb	10:29:48
3	Na 589.592 Radial†	1547872.4	1764729.5	506010 ug/L	506010 ppb	10:29:28
3	Sr 421.552†	731.8	833.2	2.0934 ug/L	2.0934 ppb	10:29:48
3	Sc 361.383	722382.2	722382.2	83.535 %		10:30:46
3	Y 371.029	561027.5	561027.5	82.251 %		10:30:46
3	Ag 328.068†	-23480.8	-28544.0	3.7123 ug/L	3.7123 ppb	10:30:46
3	As 188.979†	-213.6	-220.3	20.842 ug/L	20.842 ppb	10:31:06
3	B 249.677†	1077.7	1896.9	-32.396 ug/L	-32.396 ppb	10:30:46
3	Ba 233.527†	-1800.8	-2137.7	-2.4235 ug/L	-2.4235 ppb	10:31:06
3	Be 313.107†	-9379.6	-7284.2	-2.5098 ug/L	-2.5098 ppb	10:30:46
3	Cd 226.502†	3092.8	3902.0	-2.7791 ug/L	-2.7791 ppb	10:31:06
3	Co 228.616†	209.2	336.8	-0.2916 ug/L	-0.2916 ppb	10:31:06
3	Cr 267.716†	-46.5	-144.7	1.6107 ug/L	1.6107 ppb	10:31:06
3	Cu 324.752†	572.0	-6163.6	-1.8014 ug/L	-1.8014 ppb	10:30:46
3	Mn 257.610†	-23200.8	-28266.1	-4.8240 ug/L	-4.8240 ppb	10:30:46
3	Mo 202.031†	-554.9	-667.1	-5.0704 ug/L	-5.0704 ppb	10:31:06
3	Ni 231.604†	259.1	226.9	5.1528 ug/L	5.1528 ppb	10:31:06
3	P 214.914†	602.6	486.9	16.874 ug/L	16.874 ppb	10:31:06
3	Pb 220.353†	-667.1	-727.4	-4.5957 ug/L	-4.5957 ppb	10:31:06
3	S 181.975 Axial†	89.8	55.5	-28.341 ug/L	-28.341 ppb	10:31:06
3	Sb 206.836†	75.1	54.4	-4.0894 ug/L	-4.0894 ppb	10:31:06
3	Se 196.026†	-2217.9	-2625.5	-48.828 ug/L	-48.828 ppb	10:31:06
3	Si 251.611†	-508.5	-1098.2	-32.116 ug/L	-32.116 ppb	10:31:06
3	Sn 189.927†	-411.1	-509.8	-3.3000 ug/L	-3.3000 ppb	10:31:06
3	Ti 334.940†	-7688.6	-7509.4	5.6494 ug/L	5.6494 ppb	10:30:46
3	Tl 190.801†	-127.1	-109.0	-31.452 ug/L	-31.452 ppb	10:31:06
3	U 409.014†	359052.8	434145.7	14038 ug/L	14038 ppb	10:30:46
3	V 292.402†	2157.9	4291.1	0.4273 ug/L	0.4273 ppb	10:31:06
3	Zn 213.857†	5684.5	6059.9	8.4113 ug/L	8.4113 ppb	10:31:06
3	SiO2†	-596.4	-1246.3	-78.309 ug/L	-78.309 ppb	10:31:22

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	720926.5	83.367 %		0.8407			1.01%
Sc Radial	3448.6	87.1 %		0.61			0.70%
Y 371.029	560448.9	82.166 %		0.7684			0.94%
Y RADIAL	3809.1	83.93 %		0.701			0.83%
Ag 328.068†	-28432.9	4.6100 ug/L		0.82121	4.6100 ppb	0.82121	17.81%
Al 396.153Radial†	578243.0	519470 ug/L		8628.0	519470 ppb	8628.0	1.66%
QC value within limits for Al 396.153Radial Recovery = 103.89%							
As 188.979†	-224.2	19.675 ug/L		3.2121	19.675 ppb	3.2121	16.33%
B 249.677†	1834.9	-33.950 ug/L		1.3911	-33.950 ppb	1.3911	4.10%
Ba 233.527†	-2097.4	-2.0757 ug/L		0.30134	-2.0757 ppb	0.30134	14.52%
Be 313.107†	-7211.7	-2.4860 ug/L		0.02637	-2.4860 ppb	0.02637	1.06%
Ca 317.933Radial†	243717.1	483200 ug/L		8811.3	483200 ppb	8811.3	1.82%
QC value within limits for Ca 317.933Radial Recovery = 96.64%							
Cd 226.502†	3900.9	-2.9491 ug/L		0.21850	-2.9491 ppb	0.21850	7.41%
Co 228.616†	332.8	-0.3837 ug/L		0.13838	-0.3837 ppb	0.13838	36.06%
Cr 267.716†	-196.8	1.0988 ug/L		0.63230	1.0988 ppb	0.63230	57.55%
Cu 324.752†	-6289.5	-2.0639 ug/L		0.38369	-2.0639 ppb	0.38369	18.59%

Fe 238.204 Radial†	37701.4	449030 ug/L	1662.7	449030 ppb	1662.7	0.37%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 89.81%						
K 766.490 Radial†	1958.5	-21.828 ug/L	123.6939	-21.828 ppb	123.6939	566.67%
Mg 279.077 IEC†	11326.6	492450 ug/L	1700.8	492450 ppb	1700.8	0.35%
QC value within limits for Mg 279.077 IEC Recovery = 98.49%						
Mn 257.610†	-28299.6	-4.7774 ug/L	0.16048	-4.7774 ppb	0.16048	3.36%
Mo 202.031†	-650.7	-3.7229 ug/L	1.24547	-3.7229 ppb	1.24547	33.45%
Na 589.592 Radial†	1803371.7	517090 ug/L	9866.6	517090 ppb	9866.6	1.91%
QC value within limits for Na 589.592 Radial Recovery = 103.42%						
Ni 231.604†	245.6	5.5777 ug/L	0.67343	5.5777 ppb	0.67343	12.07%
P 214.914†	471.4	10.316 ug/L	6.2206	10.316 ppb	6.2206	60.30%
Pb 220.353†	-708.6	-0.4311 ug/L	4.06694	-0.4311 ppb	4.06694	943.32%
S 181.975 Axial†	61.2	-23.293 ug/L	6.6239	-23.293 ppb	6.6239	28.44%
Sb 206.836†	58.0	-3.1752 ug/L	5.47806	-3.1752 ppb	5.47806	172.53%
Se 196.026†	-2658.0	-62.051 ug/L	23.9424	-62.051 ppb	23.9424	38.59%
Si 251.611†	-1099.6	-32.173 ug/L	0.3219	-32.173 ppb	0.3219	1.00%
Sn 189.927†	-496.6	0.3537 ug/L	3.99062	0.3537 ppb	3.99062	>999.9%
Sr 421.552†	824.3	1.9602 ug/L	0.12947	1.9602 ppb	0.12947	6.61%
Ti 334.940†	-7766.4	6.4556 ug/L	0.69968	6.4556 ppb	0.69968	10.84%
Tl 190.801†	-102.5	-29.607 ug/L	1.6024	-29.607 ppb	1.6024	5.41%
U 409.014†	432961.8	14000 ug/L	44.1	14000 ppb	44.1	0.31%
QC value within limits for U 409.014 Recovery = 93.33%						
V 292.402†	4297.2	0.2296 ug/L	0.36138	0.2296 ppb	0.36138	157.39%
Zn 213.857†	6136.7	8.9246 ug/L	0.45491	8.9246 ppb	0.45491	5.10%
SiO2†	-1188.6	-74.654 ug/L	5.9444	-74.654 ppb	5.9444	7.96%

QC Failed. Continue with analysis.

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

Autosampler Location: 16
 Date Collected: 2/3/2010 10:33:32
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3681.1	3681.1	93.0 %		10:35:50
1	Y RADIAL	4203.3	4203.3	92.62 %		10:35:30
1	Al 396.153Radial†	335.8	557.1	49.406 ug/L	49.406 ppb	10:35:30
1	Ca 317.933Radial†	22.8	8.2	16.270 ug/L	16.270 ppb	10:35:50
1	Fe 238.204 Radial†	-13.8	-26.7	-51.984 ug/L	-51.984 ppb	10:35:50
1	K 766.490 Radial†	1612478.0	1731629.5	301890 ug/L	301890 ppb	10:35:25
1	Mg 279.077 IEC†	-5.8	-9.5	-315.33 ug/L	-315.33 ppb	10:35:50
1	Na 589.592 Radial†	-906.6	609.8	174.84 ug/L	174.84 ppb	10:35:30
1	Sr 421.552†	1339734.1	1441249.2	9736.4 ug/L	9736.4 ppb	10:35:25
1	Sc 361.383	818697.2	818697.2	94.673 %		10:37:07
1	Y 371.029	633729.0	633729.0	92.910 %		10:37:07
1	Ag 328.068†	-7192.9	-8032.7	3.1376 ug/L	3.1376 ppb	10:37:12
1	As 188.979†	22945.7	24272.2	9319.7 ug/L	9319.7 ppb	10:37:12
1	B 249.677†	212570.4	225137.5	4758.3 ug/L	4758.3 ppb	10:37:07
1	Ba 233.527†	1700727.3	1796437.0	13557 ug/L	13557 ppb	10:37:07
1	Be 313.107†	7785059.2	8227030.7	2827.4 ug/L	2827.4 ppb	10:37:01
1	Cd 226.502†	845095.5	892844.5	9319.8 ug/L	9319.8 ppb	10:37:07
1	Co 228.616†	451930.8	477445.2	8874.0 ug/L	8874.0 ppb	10:37:12
1	Cr 267.716†	2074519.1	2191153.1	23390 ug/L	23390 ppb	10:37:07
1	Cu 324.752†	6561400.3	6923730.1	19873 ug/L	19873 ppb	10:37:01
1	Mn 257.610†	8509810.6	8988123.9	9201.8 ug/L	9201.8 ppb	10:37:01
1	Mo 202.031†	129241.7	136510.7	9300.7 ug/L	9300.7 ppb	10:37:12
1	Ni 231.604†	393355.6	415404.6	9433.2 ug/L	9433.2 ppb	10:37:07
1	P 214.914†	31725.0	33275.6	13061 ug/L	13061 ppb	10:37:12
1	Pb 220.353†	200192.4	211527.4	23153 ug/L	23153 ppb	10:37:12
1	S 181.975 Axial†	38632.3	40754.1	49315 ug/L	49315 ppb	10:37:12
1	Sb 206.836†	30780.0	32476.3	10343 ug/L	10343 ppb	10:37:12
1	Se 196.026†	16770.1	17743.1	9641.3 ug/L	9641.3 ppb	10:37:12
1	Si 251.611†	1484546.6	1567585.3	46526 ug/L	46526 ppb	10:37:07
1	Sn 189.927†	56753.0	59928.6	9730.4 ug/L	9730.4 ppb	10:37:12
1	Ti 334.940†	6051658.9	6393850.9	9808.4 ug/L	9808.4 ppb	10:37:01
1	Tl 190.801†	30415.0	32169.6	9261.1 ug/L	9261.1 ppb	10:37:12
1	U 409.014†	-3078.2	1073.4	-17.441 ug/L	-17.441 ppb	10:37:12
1	V 292.402†	1338401.7	1415414.9	9937.8 ug/L	9937.8 ppb	10:37:07
1	Zn 213.857†	1503303.7	1587142.2	13490 ug/L	13490 ppb	10:37:07
1	SiO2†	1494830.6	1578405.0	100490 ug/L	100490 ppb	10:37:58
2	Sc Radial	3636.4	3636.4	91.8 %		10:36:20
2	Y RADIAL	4159.5	4159.5	91.65 %		10:36:00
2	Al 396.153Radial†	324.1	548.8	40.652 ug/L	40.652 ppb	10:36:00
2	Ca 317.933Radial†	27.0	13.1	25.935 ug/L	25.935 ppb	10:36:20
2	Fe 238.204 Radial†	-13.9	-27.0	-54.753 ug/L	-54.753 ppb	10:36:20
2	K 766.490 Radial†	1628555.1	1770434.6	308650 ug/L	308650 ppb	10:35:55
2	Mg 279.077 IEC†	-2.7	-6.2	-172.92 ug/L	-172.92 ppb	10:36:20
2	Na 589.592 Radial†	-957.0	543.0	155.68 ug/L	155.68 ppb	10:36:00
2	Sr 421.552†	1350764.4	1470956.2	9937.0 ug/L	9937.0 ppb	10:35:55
2	Sc 361.383	824807.5	824807.5	95.380 %		10:37:27
2	Y 371.029	638362.5	638362.5	93.589 %		10:37:27
2	Ag 328.068†	-7260.1	-8046.9	2.9027 ug/L	2.9027 ppb	10:37:32
2	As 188.979†	23315.3	24480.2	9397.7 ug/L	9397.7 ppb	10:37:32
2	B 249.677†	213881.0	224848.3	4752.0 ug/L	4752.0 ppb	10:37:27
2	Ba 233.527†	1706322.2	1788994.7	13501 ug/L	13501 ppb	10:37:27
2	Be 313.107†	7718805.9	8096650.3	2782.6 ug/L	2782.6 ppb	10:37:20
2	Cd 226.502†	847990.7	889267.2	9282.5 ug/L	9282.5 ppb	10:37:27
2	Co 228.616†	457395.4	479638.1	8915.2 ug/L	8915.2 ppb	10:37:32
2	Cr 267.716†	2079956.1	2180620.5	23278 ug/L	23278 ppb	10:37:27
2	Cu 324.752†	6513891.7	6822577.5	19583 ug/L	19583 ppb	10:37:20
2	Mn 257.610†	8449590.8	8858398.1	9069.0 ug/L	9069.0 ppb	10:37:20
2	Mo 202.031†	130592.4	136915.5	9328.3 ug/L	9328.3 ppb	10:37:32
2	Ni 231.604†	394630.3	413663.0	9393.6 ug/L	9393.6 ppb	10:37:27

2	P 214.914†	32292.8	33622.6	13295 ug/L	13295 ppb	10:37:32
2	Pb 220.353†	202532.3	212414.2	23250 ug/L	23250 ppb	10:37:32
2	S 181.975 Axial†	39236.0	41084.7	49715 ug/L	49715 ppb	10:37:32
2	Sb 206.836†	31259.8	32738.5	10425 ug/L	10425 ppb	10:37:32
2	Se 196.026†	16960.1	17811.2	9678.3 ug/L	9678.3 ppb	10:37:32
2	Si 251.611†	1491687.6	1563455.6	46403 ug/L	46403 ppb	10:37:27
2	Sn 189.927†	57280.8	60037.8	9748.2 ug/L	9748.2 ppb	10:37:32
2	Ti 334.940†	6006797.3	6299462.2	9663.5 ug/L	9663.5 ppb	10:37:20
2	Tl 190.801†	30687.6	32217.3	9272.9 ug/L	9272.9 ppb	10:37:32
2	U 409.014†	-3130.4	1042.7	-18.186 ug/L	-18.186 ppb	10:37:32
2	V 292.402†	1342614.6	1409358.9	9896.4 ug/L	9896.4 ppb	10:37:27
2	Zn 213.857†	1509235.3	1581597.8	13443 ug/L	13443 ppb	10:37:27
2	SiO2†	1493274.7	1565076.8	99636 ug/L	99636 ppb	10:38:04
3	Sc Radial	3676.3	3676.3	92.8 %		10:36:51
3	Y RADIAL	4110.0	4110.0	90.56 %		10:36:31
3	Al 396.153Radial†	314.1	534.2	26.765 ug/L	26.765 ppb	10:36:31
3	Ca 317.933Radial†	25.9	11.6	22.959 ug/L	22.959 ppb	10:36:51
3	Fe 238.204 Radial†	-15.9	-29.0	-78.086 ug/L	-78.086 ppb	10:36:51
3	K 766.490 Radial†	1568571.6	1686565.7	294030 ug/L	294030 ppb	10:36:26
3	Mg 279.077 IEC†	-0.2	-3.6	-56.886 ug/L	-56.886 ppb	10:36:51
3	Na 589.592 Radial†	-959.0	552.2	158.33 ug/L	158.33 ppb	10:36:31
3	Sr 421.552†	1301534.5	1401955.4	9470.9 ug/L	9470.9 ppb	10:36:26
3	Sc 361.383	822396.0	822396.0	95.101 %		10:37:47
3	Y 371.029	636753.9	636753.9	93.353 %		10:37:47
3	Ag 328.068†	-7393.7	-8209.7	1.9242 ug/L	1.9242 ppb	10:37:52
3	As 188.979†	23240.6	24473.3	9395.6 ug/L	9395.6 ppb	10:37:52
3	B 249.677†	211878.3	223399.9	4721.2 ug/L	4721.2 ppb	10:37:47
3	Ba 233.527†	1691803.9	1778974.3	13425 ug/L	13425 ppb	10:37:47
3	Be 313.107†	7753170.1	8156514.5	2803.2 ug/L	2803.2 ppb	10:37:40
3	Cd 226.502†	840458.3	883953.7	9227.0 ug/L	9227.0 ppb	10:37:47
3	Co 228.616†	456507.1	480110.2	8923.9 ug/L	8923.9 ppb	10:37:52
3	Cr 267.716†	2062925.6	2169107.0	23155 ug/L	23155 ppb	10:37:47
3	Cu 324.752†	6524887.8	6854165.5	19673 ug/L	19673 ppb	10:37:40
3	Mn 257.610†	8497068.2	8934297.5	9146.7 ug/L	9146.7 ppb	10:37:40
3	Mo 202.031†	130426.8	137142.8	9343.8 ug/L	9343.8 ppb	10:37:52
3	Ni 231.604†	391183.0	411251.4	9338.8 ug/L	9338.8 ppb	10:37:47
3	P 214.914†	32156.9	33579.0	13255 ug/L	13255 ppb	10:37:52
3	Pb 220.353†	202500.7	213003.6	23314 ug/L	23314 ppb	10:37:52
3	S 181.975 Axial†	39080.0	41041.2	49662 ug/L	49662 ppb	10:37:52
3	Sb 206.836†	31109.5	32676.6	10406 ug/L	10406 ppb	10:37:52
3	Se 196.026†	16981.2	17885.5	9718.5 ug/L	9718.5 ppb	10:37:52
3	Si 251.611†	1478379.4	1554047.8	46123 ug/L	46123 ppb	10:37:47
3	Sn 189.927†	57322.8	60258.1	9783.9 ug/L	9783.9 ppb	10:37:52
3	Ti 334.940†	6028257.8	6340494.7	9726.5 ug/L	9726.5 ppb	10:37:40
3	Tl 190.801†	30731.3	32357.6	9313.9 ug/L	9313.9 ppb	10:37:52
3	U 409.014†	-3436.1	711.6	-28.653 ug/L	-28.653 ppb	10:37:52
3	V 292.402†	1330546.7	1400796.9	9837.1 ug/L	9837.1 ppb	10:37:47
3	Zn 213.857†	1496429.2	1572771.8	13367 ug/L	13367 ppb	10:37:47
3	SiO2†	1491497.8	1567799.1	99809 ug/L	99809 ppb	10:38:10

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	821966.9	95.051 %	0.3559			0.37%
Sc Radial	3664.6	92.5 %	0.62			0.67%
Y 371.029	636281.8	93.284 %	0.3449			0.37%
Y RADIAL	4157.6	91.61 %	1.030			1.12%
Ag 328.068†	-8096.5	2.6548 ug/L	0.64353	2.6548 ppb	0.64353	24.24%
Al 396.153Radial†	546.7	38.941 ug/L	11.4168	38.941 ppb	11.4168	29.32%
As 188.979†	24408.5	9371.0 ug/L	44.44	9371.0 ppb	44.44	0.47%
QC value within limits for As 188.979 Recovery = 93.71%						
B 249.677†	224461.9	4743.9 ug/L	19.84	4743.9 ppb	19.84	0.42%
QC value within limits for B 249.677 Recovery = 94.88%						
Ba 233.527†	1788135.3	13494 ug/L	66.1	13494 ppb	66.1	0.49%
QC value less than the lower limit for Ba 233.527 Recovery = 89.96%						
Be 313.107†	8160065.2	2804.4 ug/L	22.42	2804.4 ppb	22.42	0.80%
QC value within limits for Be 313.107 Recovery = 93.48%						
Ca 317.933Radial†	11.0	21.721 ug/L	4.9497	21.721 ppb	4.9497	22.79%
Cd 226.502†	888688.4	9276.4 ug/L	46.70	9276.4 ppb	46.70	0.50%
QC value within limits for Cd 226.502 Recovery = 92.76%						

Co 228.616†	479064.5	8904.4 ug/L	26.63	8904.4 ppb	26.63	0.30%
QC value less than the lower limit for Co 228.616 Recovery = 89.04%						
Cr 267.716†	2180293.5	23274 ug/L	117.7	23274 ppb	117.7	0.51%
QC value within limits for Cr 267.716 Recovery = 93.10%						
Cu 324.752†	6866824.4	19710 ug/L	148.5	19710 ppb	148.5	0.75%
QC value within limits for Cu 324.752 Recovery = 98.55%						
Fe 238.204 Radial†	-27.5	-61.608 ug/L	14.3373	-61.608 ppb	14.3373	23.27%
K 766.490 Radial†	1729543.3	301520 ug/L	7317.9	301520 ppb	7317.9	2.43%
QC value within limits for K 766.490 Radial Recovery = 100.51%						
Mg 279.077 IEC†	-6.4	-181.71 ug/L	129.447	-181.71 ppb	129.447	71.24%
Mn 257.610†	8926939.8	9139.2 ug/L	66.73	9139.2 ppb	66.73	0.73%
QC value within limits for Mn 257.610 Recovery = 91.39%						
Mo 202.031†	136856.3	9324.3 ug/L	21.81	9324.3 ppb	21.81	0.23%
QC value within limits for Mo 202.031 Recovery = 93.24%						
Na 589.592 Radial†	568.3	162.95 ug/L	10.383	162.95 ppb	10.383	6.37%
Ni 231.604†	413439.7	9388.6 ug/L	47.40	9388.6 ppb	47.40	0.50%
QC value within limits for Ni 231.604 Recovery = 93.89%						
P 214.914†	33492.4	13204 ug/L	125.3	13204 ppb	125.3	0.95%
QC value less than the lower limit for P 214.914 Recovery = 88.02%						
Pb 220.353†	212315.1	23239 ug/L	81.4	23239 ppb	81.4	0.35%
QC value within limits for Pb 220.353 Recovery = 92.96%						
S 181.975 Axial†	40960.0	49564 ug/L	217.4	49564 ppb	217.4	0.44%
QC value within limits for S 181.975 Axial Recovery = 99.13%						
Sb 206.836†	32630.5	10391 ug/L	42.9	10391 ppb	42.9	0.41%
QC value within limits for Sb 206.836 Recovery = 103.91%						
Se 196.026†	17813.3	9679.4 ug/L	38.60	9679.4 ppb	38.60	0.40%
QC value within limits for Se 196.026 Recovery = 96.79%						
Si 251.611†	1561696.2	46351 ug/L	206.7	46351 ppb	206.7	0.45%
QC value within limits for Si 251.611 Recovery = 92.70%						
Sn 189.927†	60074.8	9754.2 ug/L	27.25	9754.2 ppb	27.25	0.28%
QC value within limits for Sn 189.927 Recovery = 97.54%						
Sr 421.552†	1438053.6	9714.8 ug/L	233.82	9714.8 ppb	233.82	2.41%
QC value within limits for Sr 421.552 Recovery = 97.15%						
Ti 334.940†	6344602.6	9732.8 ug/L	72.65	9732.8 ppb	72.65	0.75%
QC value within limits for Ti 334.940 Recovery = 97.33%						
Tl 190.801†	32248.2	9282.6 ug/L	27.72	9282.6 ppb	27.72	0.30%
QC value within limits for Tl 190.801 Recovery = 92.83%						
U 409.014†	942.6	-21.427 ug/L	6.2693	-21.427 ppb	6.2693	29.26%
V 292.402†	1408523.6	9890.4 ug/L	50.61	9890.4 ppb	50.61	0.51%
QC value within limits for V 292.402 Recovery = 98.90%						
Zn 213.857†	1580503.9	13433 ug/L	61.6	13433 ppb	61.6	0.46%
QC value less than the lower limit for Zn 213.857 Recovery = 89.55%						
SiO2†	1570427.0	99978 ug/L	450.0	99978 ppb	450.0	0.45%
QC value within limits for SiO2 Recovery = 93.44%						
QC Failed. Continue with analysis.						

Sequence No.: 13
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 2/3/2010 10:40:20
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3768.2	3768.2	95.2 %		10:42:33
1	Y RADIAL	4215.1	4215.1	92.88 %		10:42:12
1	Al 396.153Radial†	5175.2	5634.4	5038.1 ug/L	5038.1 ppb	10:42:12
1	Ca 317.933Radial†	2476.2	2586.0	5127.1 ug/L	5127.1 ppb	10:42:33
1	Fe 238.204 Radial†	422.2	431.9	5157.7 ug/L	5157.7 ppb	10:42:33
1	K 766.490 Radial†	30642.0	29171.2	5079.5 ug/L	5079.5 ppb	10:42:12
1	Mg 279.077 IEC†	114.8	117.3	5104.4 ug/L	5104.4 ppb	10:42:33
1	Na 589.592 Radial†	32034.7	35250.6	10108 ug/L	10108 ppb	10:42:12
1	Sr 421.552†	69058.9	72574.1	490.24 ug/L	490.24 ppb	10:42:12
1	Sc 361.383	846055.9	846055.9	97.837 %		10:43:31
1	Y 371.029	660817.6	660817.6	96.881 %		10:43:31
1	Ag 328.068†	103617.6	105473.4	481.96 ug/L	481.96 ppb	10:43:31
1	As 188.979†	1208.9	1271.0	489.02 ug/L	489.02 ppb	10:43:51
1	B 249.677†	21783.5	22871.9	483.78 ug/L	483.78 ppb	10:43:31
1	Ba 233.527†	62137.2	63529.0	479.87 ug/L	479.87 ppb	10:43:31
1	Be 313.107†	1364528.7	1398641.1	478.00 ug/L	478.00 ppb	10:43:31
1	Cd 226.502†	43827.8	44996.4	469.24 ug/L	469.24 ppb	10:43:51
1	Co 228.616†	24941.3	25579.1	475.63 ug/L	475.63 ppb	10:43:51
1	Cr 267.716†	43995.2	44878.9	479.39 ug/L	479.39 ppb	10:43:31
1	Cu 324.752†	169448.1	166346.1	477.48 ug/L	477.48 ppb	10:43:31
1	Mn 257.610†	456825.0	466432.5	477.82 ug/L	477.82 ppb	10:43:31
1	Mo 202.031†	6994.8	7146.6	487.37 ug/L	487.37 ppb	10:43:51
1	Ni 231.604†	20702.4	21076.9	478.61 ug/L	478.61 ppb	10:43:51
1	P 214.914†	4767.6	4638.6	2265.0 ug/L	2265.0 ppb	10:43:51
1	Pb 220.353†	4235.6	4400.4	483.03 ug/L	483.03 ppb	10:43:51
1	S 181.975 Axial†	832.3	798.8	965.63 ug/L	965.63 ppb	10:43:51
1	Sb 206.836†	1583.3	1582.8	504.74 ug/L	504.74 ppb	10:43:51
1	Se 196.026†	837.9	885.9	497.31 ug/L	497.31 ppb	10:43:51
1	Si 251.611†	79359.5	80624.5	2392.9 ug/L	2392.9 ppb	10:43:31
1	Sn 189.927†	2946.5	2994.0	487.00 ug/L	487.00 ppb	10:43:51
1	Ti 334.940†	308976.4	317502.2	487.38 ug/L	487.38 ppb	10:43:31
1	Tl 190.801†	1615.4	1694.3	487.54 ug/L	487.54 ppb	10:43:51
1	U 409.014†	9508.9	14043.9	454.11 ug/L	454.11 ppb	10:43:31
1	V 292.402†	65606.4	68764.7	483.75 ug/L	483.75 ppb	10:43:31
1	Zn 213.857†	55184.6	55659.6	471.92 ug/L	471.92 ppb	10:43:31
1	SiO2†	80455.2	81701.5	5201.3 ug/L	5201.3 ppb	10:44:52
2	Sc Radial	3781.3	3781.3	95.5 %		10:42:58
2	Y RADIAL	4206.7	4206.7	92.69 %		10:42:38
2	Al 396.153Radial†	5229.1	5672.1	5072.1 ug/L	5072.1 ppb	10:42:38
2	Ca 317.933Radial†	2489.7	2591.1	5137.1 ug/L	5137.1 ppb	10:42:58
2	Fe 238.204 Radial†	426.2	434.5	5189.3 ug/L	5189.3 ppb	10:42:58
2	K 766.490 Radial†	30875.9	29304.1	5102.6 ug/L	5102.6 ppb	10:42:38
2	Mg 279.077 IEC†	113.9	116.0	5045.7 ug/L	5045.7 ppb	10:42:58
2	Na 589.592 Radial†	32368.4	35483.0	10174 ug/L	10174 ppb	10:42:38
2	Sr 421.552†	69769.1	73065.5	493.56 ug/L	493.56 ppb	10:42:38
2	Sc 361.383	853506.1	853506.1	98.698 %		10:43:59
2	Y 371.029	666207.9	666207.9	97.671 %		10:43:59
2	Ag 328.068†	104691.0	105636.5	482.72 ug/L	482.72 ppb	10:43:59
2	As 188.979†	1219.3	1270.9	488.98 ug/L	488.98 ppb	10:44:19
2	B 249.677†	22155.6	23054.5	487.66 ug/L	487.66 ppb	10:43:59
2	Ba 233.527†	62800.4	63646.6	480.76 ug/L	480.76 ppb	10:43:59
2	Be 313.107†	1386900.4	1409133.6	481.58 ug/L	481.58 ppb	10:43:59
2	Cd 226.502†	43866.0	44644.1	465.56 ug/L	465.56 ppb	10:44:19
2	Co 228.616†	24968.8	25384.4	472.00 ug/L	472.00 ppb	10:44:19
2	Cr 267.716†	44653.4	45153.2	482.31 ug/L	482.31 ppb	10:43:59
2	Cu 324.752†	171078.7	166486.4	477.88 ug/L	477.88 ppb	10:43:59
2	Mn 257.610†	462773.9	468384.0	479.83 ug/L	479.83 ppb	10:43:59
2	Mo 202.031†	6995.1	7084.5	483.14 ug/L	483.14 ppb	10:44:19
2	Ni 231.604†	20706.9	20896.7	474.52 ug/L	474.52 ppb	10:44:19

2	P 214.914†	4782.0	4610.6	2250.6 ug/L	2250.6 ppb	10:44:19
2	Pb 220.353†	4256.3	4383.6	481.18 ug/L	481.18 ppb	10:44:19
2	S 181.975 Axial†	833.8	792.9	958.52 ug/L	958.52 ppb	10:44:19
2	Sb 206.836†	1583.1	1568.4	500.14 ug/L	500.14 ppb	10:44:19
2	Se 196.026†	833.1	873.5	490.69 ug/L	490.69 ppb	10:44:19
2	Si 251.611†	80409.5	80980.3	2403.5 ug/L	2403.5 ppb	10:43:59
2	Sn 189.927†	2937.8	2958.9	481.30 ug/L	481.30 ppb	10:44:19
2	Ti 334.940†	312554.6	318370.9	488.71 ug/L	488.71 ppb	10:43:59
2	Tl 190.801†	1626.3	1691.0	486.62 ug/L	486.62 ppb	10:44:19
2	U 409.014†	9647.3	14099.3	455.90 ug/L	455.90 ppb	10:43:59
2	V 292.402†	66403.3	68986.8	485.23 ug/L	485.23 ppb	10:43:59
2	Zn 213.857†	55996.8	55990.2	474.77 ug/L	474.77 ppb	10:43:59
2	SiO2†	79930.8	80452.4	5121.7 ug/L	5121.7 ppb	10:44:57
3	Sc Radial	3767.1	3767.1	95.1 %		10:43:23
3	Y RADIAL	4204.9	4204.9	92.65 %		10:43:03
3	Al 396.153Radial†	5206.6	5669.0	5069.4 ug/L	5069.4 ppb	10:43:03
3	Ca 317.933Radial†	2467.5	2577.6	5110.4 ug/L	5110.4 ppb	10:43:23
3	Fe 238.204 Radial†	425.8	435.8	5204.4 ug/L	5204.4 ppb	10:43:23
3	K 766.490 Radial†	30757.3	29301.3	5102.1 ug/L	5102.1 ppb	10:43:03
3	Mg 279.077 IEC†	117.3	120.0	5222.2 ug/L	5222.2 ppb	10:43:23
3	Na 589.592 Radial†	32541.4	35792.6	10263 ug/L	10263 ppb	10:43:03
3	Sr 421.552†	69437.4	72992.1	493.06 ug/L	493.06 ppb	10:43:03
3	Sc 361.383	859098.2	859098.2	99.345 %		10:44:26
3	Y 371.029	669990.6	669990.6	98.226 %		10:44:26
3	Ag 328.068†	105082.6	105340.2	481.37 ug/L	481.37 ppb	10:44:26
3	As 188.979†	1223.8	1267.3	487.61 ug/L	487.61 ppb	10:44:46
3	B 249.677†	22149.2	22902.0	484.42 ug/L	484.42 ppb	10:44:26
3	Ba 233.527†	63127.5	63561.6	480.12 ug/L	480.12 ppb	10:44:26
3	Be 313.107†	1388010.7	1401104.3	478.84 ug/L	478.84 ppb	10:44:26
3	Cd 226.502†	44198.2	44689.1	466.03 ug/L	466.03 ppb	10:44:46
3	Co 228.616†	25157.1	25409.4	472.46 ug/L	472.46 ppb	10:44:46
3	Cr 267.716†	44718.9	44924.7	479.87 ug/L	479.87 ppb	10:44:26
3	Cu 324.752†	171613.3	165896.2	476.19 ug/L	476.19 ppb	10:44:26
3	Mn 257.610†	464956.1	467528.6	478.94 ug/L	478.94 ppb	10:44:26
3	Mo 202.031†	7030.5	7074.0	482.43 ug/L	482.43 ppb	10:44:46
3	Ni 231.604†	20826.5	20880.6	474.15 ug/L	474.15 ppb	10:44:46
3	P 214.914†	4847.1	4644.6	2268.2 ug/L	2268.2 ppb	10:44:46
3	Pb 220.353†	4299.8	4399.4	482.90 ug/L	482.90 ppb	10:44:46
3	S 181.975 Axial†	833.2	786.8	951.13 ug/L	951.13 ppb	10:44:46
3	Sb 206.836†	1593.5	1568.5	500.16 ug/L	500.16 ppb	10:44:46
3	Se 196.026†	831.7	866.7	487.02 ug/L	487.02 ppb	10:44:46
3	Si 251.611†	80699.7	80742.1	2396.4 ug/L	2396.4 ppb	10:44:26
3	Sn 189.927†	2967.5	2969.4	483.00 ug/L	483.00 ppb	10:44:46
3	Ti 334.940†	313813.0	317576.2	487.48 ug/L	487.48 ppb	10:44:26
3	Tl 190.801†	1634.6	1688.5	485.90 ug/L	485.90 ppb	10:44:46
3	U 409.014†	9812.9	14202.3	459.25 ug/L	459.25 ppb	10:44:26
3	V 292.402†	66604.0	68750.8	483.59 ug/L	483.59 ppb	10:44:26
3	Zn 213.857†	56165.1	55790.3	473.06 ug/L	473.06 ppb	10:44:26
3	SiO2†	79908.3	79902.6	5086.6 ug/L	5086.6 ppb	10:45:02

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	852886.7	98.627 %	0.7566			0.77%
Sc Radial	3772.2	95.3 %	0.20			0.21%
Y 371.029	665672.0	97.593 %	0.6758			0.69%
Y RADIAL	4208.9	92.74 %	0.120			0.13%
Ag 328.068†	105483.3	482.02 ug/L	0.676	482.02 ppb	0.676	0.14%
QC value within limits for Ag 328.068 Recovery = 96.40%						
Al 396.153Radial†	5658.5	5059.9 ug/L	18.90	5059.9 ppb	18.90	0.37%
QC value within limits for Al 396.153Radial Recovery = 101.20%						
As 188.979†	1269.7	488.54 ug/L	0.803	488.54 ppb	0.803	0.16%
QC value within limits for As 188.979 Recovery = 97.71%						
B 249.677†	22942.8	485.29 ug/L	2.083	485.29 ppb	2.083	0.43%
QC value within limits for B 249.677 Recovery = 97.06%						
Ba 233.527†	63579.1	480.25 ug/L	0.460	480.25 ppb	0.460	0.10%
QC value within limits for Ba 233.527 Recovery = 96.05%						
Be 313.107†	1402959.7	479.47 ug/L	1.872	479.47 ppb	1.872	0.39%
QC value within limits for Be 313.107 Recovery = 95.89%						
Ca 317.933Radial†	2584.9	5124.9 ug/L	13.48	5124.9 ppb	13.48	0.26%

QC value within limits for Ca 317.933 Radial Recovery = 102.50%

Cd	226.502†	44776.5	466.95 ug/L	2.003	466.95 ppb	2.003	0.43%
QC value within limits for Cd 226.502 Recovery = 93.39%							
Co	228.616†	25457.6	473.36 ug/L	1.978	473.36 ppb	1.978	0.42%
QC value within limits for Co 228.616 Recovery = 94.67%							
Cr	267.716†	44985.6	480.52 ug/L	1.569	480.52 ppb	1.569	0.33%
QC value within limits for Cr 267.716 Recovery = 96.10%							
Cu	324.752†	166242.9	477.18 ug/L	0.885	477.18 ppb	0.885	0.19%
QC value within limits for Cu 324.752 Recovery = 95.44%							
Fe	238.204 Radial†	434.1	5183.8 ug/L	23.83	5183.8 ppb	23.83	0.46%
QC value within limits for Fe 238.204 Radial Recovery = 103.68%							
K	766.490 Radial†	29258.9	5094.7 ug/L	13.22	5094.7 ppb	13.22	0.26%
QC value within limits for K 766.490 Radial Recovery = 101.89%							
Mg	279.077 IEC†	117.8	5124.1 ug/L	89.89	5124.1 ppb	89.89	1.75%
QC value within limits for Mg 279.077 IEC Recovery = 102.48%							
Mn	257.610†	467448.4	478.86 ug/L	1.004	478.86 ppb	1.004	0.21%
QC value within limits for Mn 257.610 Recovery = 95.77%							
Mo	202.031†	7101.7	484.32 ug/L	2.672	484.32 ppb	2.672	0.55%
QC value within limits for Mo 202.031 Recovery = 96.86%							
Na	589.592 Radial†	35508.7	10182 ug/L	78.0	10182 ppb	78.0	0.77%
QC value within limits for Na 589.592 Radial Recovery = 101.82%							
Ni	231.604†	20951.4	475.76 ug/L	2.475	475.76 ppb	2.475	0.52%
QC value within limits for Ni 231.604 Recovery = 95.15%							
P	214.914†	4631.3	2261.3 ug/L	9.38	2261.3 ppb	9.38	0.41%
QC value within limits for P 214.914 Recovery = 90.45%							
Pb	220.353†	4394.5	482.37 ug/L	1.033	482.37 ppb	1.033	0.21%
QC value within limits for Pb 220.353 Recovery = 96.47%							
S	181.975 Axial†	792.8	958.43 ug/L	7.252	958.43 ppb	7.252	0.76%
QC value within limits for S 181.975 Axial Recovery = 95.84%							
Sb	206.836†	1573.2	501.68 ug/L	2.651	501.68 ppb	2.651	0.53%
QC value within limits for Sb 206.836 Recovery = 100.34%							
Se	196.026†	875.4	491.68 ug/L	5.216	491.68 ppb	5.216	1.06%
QC value within limits for Se 196.026 Recovery = 98.34%							
Si	251.611†	80782.3	2397.6 ug/L	5.42	2397.6 ppb	5.42	0.23%
QC value within limits for Si 251.611 Recovery = 95.90%							
Sn	189.927†	2974.1	483.76 ug/L	2.926	483.76 ppb	2.926	0.60%
QC value within limits for Sn 189.927 Recovery = 96.75%							
Sr	421.552†	72877.2	492.28 ug/L	1.790	492.28 ppb	1.790	0.36%
QC value within limits for Sr 421.552 Recovery = 98.46%							
Ti	334.940†	317816.4	487.85 ug/L	0.746	487.85 ppb	0.746	0.15%
QC value within limits for Ti 334.940 Recovery = 97.57%							
Tl	190.801†	1691.3	486.68 ug/L	0.820	486.68 ppb	0.820	0.17%
QC value within limits for Tl 190.801 Recovery = 97.34%							
U	409.014†	14115.2	456.42 ug/L	2.606	456.42 ppb	2.606	0.57%
QC value within limits for U 409.014 Recovery = 91.28%							
V	292.402†	68834.1	484.19 ug/L	0.903	484.19 ppb	0.903	0.19%
QC value within limits for V 292.402 Recovery = 96.84%							
Zn	213.857†	55813.3	473.25 ug/L	1.435	473.25 ppb	1.435	0.30%
QC value within limits for Zn 213.857 Recovery = 94.65%							
SiO2†		80685.5	5136.5 ug/L	58.76	5136.5 ppb	58.76	1.14%
QC value within limits for SiO2 Recovery = 96.05%							

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/3/2010 10:47:13

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3799.7	3799.7	96.0 %		10:49:26
1	Y RADIAL	4276.6	4276.6	94.23 %		10:49:06
1	Al 396.153Radial†	-175.5	12.9	11.568 ug/L	11.568 ppb	10:49:06
1	Ca 317.933Radial†	25.2	10.0	19.858 ug/L	19.858 ppb	10:49:26
1	Fe 238.204 Radial†	13.6	2.3	27.884 ug/L	27.884 ppb	10:49:26
1	K 766.490 Radial†	3464.6	580.0	101.12 ug/L	101.12 ppb	10:49:06
1	Mg 279.077 IEC†	0.1	-3.2	-141.15 ug/L	-141.15 ppb	10:49:26
1	Na 589.592 Radial†	-1503.1	18.7	5.3546 ug/L	5.3546 ppb	10:49:06
1	Sr 421.552†	50.0	51.6	0.3487 ug/L	0.3487 ppb	10:49:06
1	Sc 361.383	846318.2	846318.2	97.867 %		10:50:23
1	Y 371.029	669637.7	669637.7	98.174 %		10:50:23
1	Ag 328.068†	424.5	-1.3	0.0026 ug/L	0.0026 ppb	10:50:23
1	As 188.979†	-18.8	16.2	6.1902 ug/L	6.1902 ppb	10:50:43
1	B 249.677†	59.0	667.1	14.171 ug/L	14.171 ppb	10:50:23
1	Ba 233.527†	-4.9	13.0	0.0977 ug/L	0.0977 ppb	10:50:43
1	Be 313.107†	-3720.1	142.9	0.0483 ug/L	0.0483 ppb	10:50:23
1	Cd 226.502†	-163.2	32.9	0.3396 ug/L	0.3396 ppb	10:50:43
1	Co 228.616†	-106.1	-22.1	-0.4100 ug/L	-0.4100 ppb	10:50:43
1	Cr 267.716†	112.8	26.2	0.2799 ug/L	0.2799 ppb	10:50:23
1	Cu 324.752†	7072.7	378.5	1.0890 ug/L	1.0890 ppb	10:50:23
1	Mn 257.610†	514.4	33.2	0.0425 ug/L	0.0425 ppb	10:50:43
1	Mo 202.031†	5.7	3.0	0.2078 ug/L	0.2078 ppb	10:50:43
1	Ni 231.604†	65.8	-15.9	-0.3620 ug/L	-0.3620 ppb	10:50:43
1	P 214.914†	231.7	2.2	0.9340 ug/L	0.9340 ppb	10:50:43
1	Pb 220.353†	-67.2	2.5	0.2786 ug/L	0.2786 ppb	10:50:43
1	S 181.975 Axial†	56.5	5.8	6.9843 ug/L	6.9843 ppb	10:50:43
1	Sb 206.836†	45.6	11.1	3.4619 ug/L	3.4619 ppb	10:50:43
1	Se 196.026†	-28.8	0.0	0.1081 ug/L	0.1081 ppb	10:50:43
1	Si 251.611†	524.7	46.5	1.3825 ug/L	1.3825 ppb	10:50:43
1	Sn 189.927†	38.8	22.0	3.5705 ug/L	3.5705 ppb	10:50:43
1	Ti 334.940†	-1779.8	-124.0	-0.1754 ug/L	-0.1754 ppb	10:50:23
1	Tl 190.801†	-38.7	3.7	1.0583 ug/L	1.0583 ppb	10:50:43
1	U 409.014†	-4290.5	-59.3	-1.9267 ug/L	-1.9267 ppb	10:50:23
1	V 292.402†	-1742.6	-72.7	-0.5122 ug/L	-0.5122 ppb	10:50:23
1	Zn 213.857†	755.1	26.5	0.2245 ug/L	0.2245 ppb	10:50:43
1	SiO2†	562.2	42.0	2.6741 ug/L	2.6741 ppb	10:51:39
2	Sc Radial	3779.9	3779.9	95.5 %		10:49:51
2	Y RADIAL	4230.4	4230.4	93.21 %		10:49:31
2	Al 396.153Radial†	-205.4	-19.3	-17.447 ug/L	-17.447 ppb	10:49:31
2	Ca 317.933Radial†	17.6	2.2	4.3100 ug/L	4.3100 ppb	10:49:51
2	Fe 238.204 Radial†	11.7	0.5	5.6111 ug/L	5.6111 ppb	10:49:51
2	K 766.490 Radial†	3517.2	654.1	114.04 ug/L	114.04 ppb	10:49:31
2	Mg 279.077 IEC†	-0.9	-4.2	-182.81 ug/L	-182.81 ppb	10:49:51
2	Na 589.592 Radial†	-1555.6	-44.7	-12.804 ug/L	-12.804 ppb	10:49:31
2	Sr 421.552†	15.4	15.7	0.1058 ug/L	0.1058 ppb	10:49:31
2	Sc 361.383	843558.7	843558.7	97.548 %		10:50:48
2	Y 371.029	669377.1	669377.1	98.136 %		10:50:48
2	Ag 328.068†	495.3	72.7	0.3377 ug/L	0.3377 ppb	10:50:48
2	As 188.979†	-21.6	13.3	5.0676 ug/L	5.0676 ppb	10:51:08
2	B 249.677†	54.5	662.7	14.080 ug/L	14.080 ppb	10:50:48
2	Ba 233.527†	-10.7	7.1	0.0515 ug/L	0.0515 ppb	10:51:08
2	Be 313.107†	-3695.5	155.7	0.0528 ug/L	0.0528 ppb	10:50:48
2	Cd 226.502†	-168.9	26.5	0.2733 ug/L	0.2733 ppb	10:51:08
2	Co 228.616†	-93.5	-9.4	-0.1714 ug/L	-0.1714 ppb	10:51:08
2	Cr 267.716†	111.9	25.6	0.2770 ug/L	0.2770 ppb	10:50:48
2	Cu 324.752†	6896.7	221.7	0.6435 ug/L	0.6435 ppb	10:50:48
2	Mn 257.610†	497.8	17.9	0.0263 ug/L	0.0263 ppb	10:51:08
2	Mo 202.031†	24.7	22.5	1.5317 ug/L	1.5317 ppb	10:51:08
2	Ni 231.604†	86.2	5.1	0.1166 ug/L	0.1166 ppb	10:51:08

2	P 214.914†	216.7	-12.3	-6.3761 ug/L	-6.3761 ppb	10:51:08
2	Pb 220.353†	-54.9	14.9	1.6283 ug/L	1.6283 ppb	10:51:08
2	S 181.975 Axial†	59.7	9.3	11.240 ug/L	11.240 ppb	10:51:08
2	Sb 206.836†	47.0	12.7	3.9785 ug/L	3.9785 ppb	10:51:08
2	Se 196.026†	-31.4	-2.7	-1.4437 ug/L	-1.4437 ppb	10:51:08
2	Si 251.611†	558.9	83.4	2.4622 ug/L	2.4622 ppb	10:51:08
2	Sn 189.927†	36.3	19.5	3.1726 ug/L	3.1726 ppb	10:51:08
2	Ti 334.940†	-1733.9	-82.9	-0.1065 ug/L	-0.1065 ppb	10:50:48
2	Tl 190.801†	-32.7	9.7	2.7696 ug/L	2.7696 ppb	10:51:08
2	U 409.014†	-4587.3	-377.8	-12.262 ug/L	-12.262 ppb	10:50:48
2	V 292.402†	-1801.7	-139.1	-0.9720 ug/L	-0.9720 ppb	10:50:48
2	Zn 213.857†	756.2	30.1	0.2553 ug/L	0.2553 ppb	10:51:08
2	SiO2†	575.8	57.8	3.6478 ug/L	3.6478 ppb	10:51:44
3	Sc Radial	3808.5	3808.5	96.2 %		10:50:16
3	Y RADIAL	4353.6	4353.6	95.93 %		10:49:56
3	Al 396.153Radial†	-198.6	-10.7	-9.6435 ug/L	-9.6435 ppb	10:49:56
3	Ca 317.933Radial†	17.7	2.1	4.1399 ug/L	4.1399 ppb	10:50:16
3	Fe 238.204 Radial†	11.0	-0.4	-4.4499 ug/L	-4.4499 ppb	10:50:16
3	K 766.490 Radial†	3583.8	695.7	121.29 ug/L	121.29 ppb	10:49:56
3	Mg 279.077 IEC†	2.0	-1.2	-50.756 ug/L	-50.756 ppb	10:50:16
3	Na 589.592 Radial†	-1503.4	21.9	6.2798 ug/L	6.2798 ppb	10:49:56
3	Sr 421.552†	11.8	11.8	0.0800 ug/L	0.0800 ppb	10:49:56
3	Sc 361.383	844240.3	844240.3	97.627 %		10:51:14
3	Y 371.029	668545.8	668545.8	98.014 %		10:51:14
3	Ag 328.068†	420.4	-4.5	-0.0204 ug/L	-0.0204 ppb	10:51:14
3	As 188.979†	-27.7	7.1	2.6987 ug/L	2.6987 ppb	10:51:34
3	B 249.677†	-44.6	561.1	11.923 ug/L	11.923 ppb	10:51:14
3	Ba 233.527†	-15.6	2.1	0.0144 ug/L	0.0144 ppb	10:51:34
3	Be 313.107†	-3756.8	96.0	0.0321 ug/L	0.0321 ppb	10:51:14
3	Cd 226.502†	-181.3	13.9	0.1445 ug/L	0.1445 ppb	10:51:34
3	Co 228.616†	-90.7	-6.6	-0.1195 ug/L	-0.1195 ppb	10:51:34
3	Cr 267.716†	51.0	-36.8	-0.3916 ug/L	-0.3916 ppb	10:51:14
3	Cu 324.752†	6863.5	182.1	0.5247 ug/L	0.5247 ppb	10:51:14
3	Mn 257.610†	522.8	43.0	0.0457 ug/L	0.0457 ppb	10:51:34
3	Mo 202.031†	12.6	10.1	0.6900 ug/L	0.6900 ppb	10:51:34
3	Ni 231.604†	94.0	13.1	0.2970 ug/L	0.2970 ppb	10:51:34
3	P 214.914†	236.9	8.1	4.0548 ug/L	4.0548 ppb	10:51:34
3	Pb 220.353†	-86.9	-17.8	-1.9493 ug/L	-1.9493 ppb	10:51:34
3	S 181.975 Axial†	58.0	7.5	9.0694 ug/L	9.0694 ppb	10:51:34
3	Sb 206.836†	52.1	17.8	5.5209 ug/L	5.5209 ppb	10:51:34
3	Se 196.026†	-29.9	-1.1	-0.6279 ug/L	-0.6279 ppb	10:51:34
3	Si 251.611†	525.1	48.4	1.4302 ug/L	1.4302 ppb	10:51:34
3	Sn 189.927†	26.7	9.7	1.5824 ug/L	1.5824 ppb	10:51:34
3	Ti 334.940†	-1837.5	-187.6	-0.2813 ug/L	-0.2813 ppb	10:51:14
3	Tl 190.801†	-31.9	10.5	3.0023 ug/L	3.0023 ppb	10:51:34
3	U 409.014†	-4352.0	-133.0	-4.3140 ug/L	-4.3140 ppb	10:51:14
3	V 292.402†	-1737.6	-72.0	-0.4980 ug/L	-0.4980 ppb	10:51:14
3	Zn 213.857†	751.3	24.5	0.2077 ug/L	0.2077 ppb	10:51:34
3	SiO2†	572.3	53.8	3.4152 ug/L	3.4152 ppb	10:51:49

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	844705.7	97.681 %	0.1662			0.17%
Sc Radial	3796.0	95.9 %	0.37			0.39%
Y 371.029	669186.9	98.108 %	0.0836			0.09%
Y RADIAL	4286.9	94.46 %	1.371			1.45%
Ag 328.068†	22.3	0.1067 ug/L	0.20045	0.1067 ppb	0.20045	187.95%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-5.7	-5.1743 ug/L	15.01463	-5.1743 ppb	15.01463	290.18%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	12.2	4.6522 ug/L	1.78246	4.6522 ppb	1.78246	38.31%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	630.3	13.391 ug/L	1.2721	13.391 ppb	1.2721	9.50%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.4	0.0545 ug/L	0.04173	0.0545 ppb	0.04173	76.53%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	131.5	0.0444 ug/L	0.01091	0.0444 ppb	0.01091	24.58%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.8	9.4361 ug/L	9.02635	9.4361 ppb	9.02635	95.66%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	24.4	0.2525 ug/L	0.09921	0.2525 ppb	0.09921	39.30%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-12.7	-0.2336 ug/L	0.15493	-0.2336 ppb	0.15493	66.32%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	5.0	0.0551 ug/L	0.38685	0.0551 ppb	0.38685	701.84%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	260.8	0.7524 ug/L	0.29751	0.7524 ppb	0.29751	39.54%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.8	9.6817 ug/L	16.54687	9.6817 ppb	16.54687	170.91%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	643.3	112.15 ug/L	10.218	112.15 ppb	10.218	9.11%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-2.9	-124.90 ug/L	67.507	-124.90 ppb	67.507	54.05%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	31.4	0.0382 ug/L	0.01039	0.0382 ppb	0.01039	27.22%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	11.9	0.8099 ug/L	0.67004	0.8099 ppb	0.67004	82.73%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-1.4	-0.3898 ug/L	10.76079	-0.3898 ppb	10.76079	>999.9%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	0.8	0.0172 ug/L	0.34057	0.0172 ppb	0.34057	>999.9%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-0.7	-0.4625 ug/L	5.35380	-0.4625 ppb	5.35380	>999.9%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-0.1	-0.0141 ug/L	1.80665	-0.0141 ppb	1.80665	>999.9%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	7.5	9.0978 ug/L	2.12777	9.0978 ppb	2.12777	23.39%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	13.8	4.3204 ug/L	1.07125	4.3204 ppb	1.07125	24.79%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-1.3	-0.6545 ug/L	0.77625	-0.6545 ppb	0.77625	118.61%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	59.4	1.7583 ug/L	0.61009	1.7583 ppb	0.61009	34.70%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	17.1	2.7752 ug/L	1.05193	2.7752 ppb	1.05193	37.90%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	26.4	0.1781 ug/L	0.14825	0.1781 ppb	0.14825	83.22%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-131.5	-0.1878 ug/L	0.08806	-0.1878 ppb	0.08806	46.90%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	8.0	2.2767 ug/L	1.06159	2.2767 ppb	1.06159	46.63%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-190.0	-6.1678 ug/L	5.41148	-6.1678 ppb	5.41148	87.74%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-94.6	-0.6607 ug/L	0.26965	-0.6607 ppb	0.26965	40.81%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	27.0	0.2292 ug/L	0.02413	0.2292 ppb	0.02413	10.53%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	51.2	3.2457 ug/L	0.50853	3.2457 ppb	0.50853	15.67%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

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Analysis Begun

Start Time: 2/3/2010 10:55:09

Plasma On Time: 2/1/2010 05:43:14

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601 Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\020310.sif

Batch ID:

Results Data Set: 020310

Results Library: C:\pe\Optima3\Results\Results.mdb

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Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 2/3/2010 09:24:10

IEC File: 011110.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc Radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

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Sequence No.: 1

Autosampler Location: 37

Sample ID: LR2

Date Collected: 2/3/2010 10:55:10

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3807.2	3807.2	96.1 %		10:57:24
1	Y RADIAL	4358.4	4358.4	96.03 %		10:57:04
1	Al 396.153Radial†	-190.2	-2.0	-1.8506 ug/L	-1.8506 ppb	10:57:04

1	Ca 317.933Radial†	15.9	0.3	0.5032 ug/L	0.5032 ppb	10:57:24
1	Fe 238.204 Radial†	-0.5	-12.3	8.0270 ug/L	8.0270 ppb	10:57:24
1	K 766.490 Radial†	3370.9	475.5	82.906 ug/L	82.906 ppb	10:57:04
1	Mg 279.077 IEC†	4.7	1.6	67.725 ug/L	67.725 ppb	10:57:24
1	Na 589.592 Radial†	-1552.0	-29.1	-8.3522 ug/L	-8.3522 ppb	10:57:04
1	Sr 421.552†	45.7	47.1	0.3180 ug/L	0.3180 ppb	10:57:04
1	Sc 361.383	853204.5	853204.5	98.664 %		10:58:21
1	Y 371.029	672977.2	672977.2	98.664 %		10:58:21
1	Ag 328.068†	473.9	45.2	0.1504 ug/L	0.1504 ppb	10:58:21
1	As 188.979†	-20.1	15.1	5.7330 ug/L	5.7330 ppb	10:58:41
1	B 249.677†	447.2	1060.0	7.7845 ug/L	7.7845 ppb	10:58:21
1	Ba 233.527†	3.6	21.7	0.1559 ug/L	0.1559 ppb	10:58:41
1	Be 313.107†	-3770.0	123.0	0.0421 ug/L	0.0421 ppb	10:58:21
1	Cd 226.502†	-190.7	6.4	0.0837 ug/L	0.0837 ppb	10:58:41
1	Co 228.616†	274224.4	278025.2	5169.1 ug/L	5169.1 ppb	10:58:21
1	Cr 267.716†	141.1	54.0	0.5712 ug/L	0.5712 ppb	10:58:21
1	Cu 324.752†	6301.8	-461.1	-1.3310 ug/L	-1.3310 ppb	10:58:21
1	Mn 257.610†	518.0	32.6	0.0161 ug/L	0.0161 ppb	10:58:41
1	Mo 202.031†	16.5	13.9	0.9363 ug/L	0.9363 ppb	10:58:41
1	Ni 231.604†	218.4	138.2	0.0192 ug/L	0.0192 ppb	10:58:41
1	P 214.914†	18645.9	18664.0	9488.7 ug/L	9488.7 ppb	10:58:21
1	Pb 220.353†	-51.3	19.2	2.1201 ug/L	2.1201 ppb	10:58:41
1	S 181.975 Axial†	56.4	5.2	6.3300 ug/L	6.3300 ppb	10:58:41
1	Sb 206.836†	58.5	23.7	7.3287 ug/L	7.3287 ppb	10:58:41
1	Se 196.026†	-28.9	0.3	-0.3088 ug/L	-0.3088 ppb	10:58:41
1	Si 251.611†	495.7	12.8	0.3699 ug/L	0.3699 ppb	10:58:41
1	Sn 189.927†	17.5	0.1	0.0082 ug/L	0.0082 ppb	10:58:41
1	Ti 334.940†	-1642.4	29.9	0.0405 ug/L	0.0405 ppb	10:58:21
1	Tl 190.801†	44.9	88.7	2.7110 ug/L	2.7110 ppb	10:58:41
1	U 409.014†	-4283.1	-16.4	-0.5152 ug/L	-0.5152 ppb	10:58:21
1	V 292.402†	-1881.5	-199.1	-1.3475 ug/L	-1.3475 ppb	10:58:21
1	Zn 213.857†	1577.2	853.4	7.2964 ug/L	7.2964 ppb	10:58:41
1	SiO2†	515.9	-9.6	-0.6363 ug/L	-0.6363 ppb	10:59:38
2	Sc Radial	3818.3	3818.3	96.4 %		10:57:49
2	Y RADIAL	4267.6	4267.6	94.03 %		10:57:29
2	Al 396.153Radial†	-196.8	-8.3	-7.4955 ug/L	-7.4955 ppb	10:57:29
2	Ca 317.933Radial†	28.8	13.6	27.029 ug/L	27.029 ppb	10:57:49
2	Fe 238.204 Radial†	1.2	-10.6	28.048 ug/L	28.048 ppb	10:57:49
2	K 766.490 Radial†	3445.3	542.5	94.568 ug/L	94.568 ppb	10:57:29
2	Mg 279.077 IEC†	1.2	-2.1	-89.081 ug/L	-89.081 ppb	10:57:49
2	Na 589.592 Radial†	-1564.6	-37.6	-10.770 ug/L	-10.770 ppb	10:57:29
2	Sr 421.552†	-10.8	-11.7	-0.0791 ug/L	-0.0791 ppb	10:57:29
2	Sc 361.383	852267.2	852267.2	98.555 %		10:58:47
2	Y 371.029	672878.0	672878.0	98.649 %		10:58:47
2	Ag 328.068†	536.7	109.4	0.4559 ug/L	0.4559 ppb	10:58:47
2	As 188.979†	-34.9	0.0	-0.0219 ug/L	-0.0219 ppb	10:59:07
2	B 249.677†	423.0	1036.0	7.2826 ug/L	7.2826 ppb	10:58:47
2	Ba 233.527†	16.5	34.8	0.2580 ug/L	0.2580 ppb	10:59:07
2	Be 313.107†	-3842.9	44.9	0.0156 ug/L	0.0156 ppb	10:58:47
2	Cd 226.502†	-202.5	-5.9	-0.0469 ug/L	-0.0469 ppb	10:59:07
2	Co 228.616†	273698.1	277796.9	5164.9 ug/L	5164.9 ppb	10:58:47
2	Cr 267.716†	76.1	-11.9	-0.1277 ug/L	-0.1277 ppb	10:58:47
2	Cu 324.752†	6405.0	-349.4	-1.0079 ug/L	-1.0079 ppb	10:58:47
2	Mn 257.610†	535.1	50.5	0.0429 ug/L	0.0429 ppb	10:59:07
2	Mo 202.031†	15.5	12.9	0.8705 ug/L	0.8705 ppb	10:59:07
2	Ni 231.604†	223.3	143.4	0.1396 ug/L	0.1396 ppb	10:59:07
2	P 214.914†	18641.2	18680.0	9496.8 ug/L	9496.8 ppb	10:58:47
2	Pb 220.353†	-41.5	29.1	3.1993 ug/L	3.1993 ppb	10:59:07
2	S 181.975 Axial†	58.6	7.5	9.0857 ug/L	9.0857 ppb	10:59:07
2	Sb 206.836†	49.3	14.5	4.5064 ug/L	4.5064 ppb	10:59:07
2	Se 196.026†	-30.4	-1.3	-1.1184 ug/L	-1.1184 ppb	10:59:07
2	Si 251.611†	526.4	44.6	1.3150 ug/L	1.3150 ppb	10:59:07
2	Sn 189.927†	25.5	8.3	1.3459 ug/L	1.3459 ppb	10:59:07
2	Ti 334.940†	-1580.3	91.1	0.1522 ug/L	0.1522 ppb	10:58:47
2	Tl 190.801†	59.9	104.0	7.0933 ug/L	7.0933 ppb	10:59:07
2	U 409.014†	-4357.1	-96.2	-3.1084 ug/L	-3.1084 ppb	10:58:47
2	V 292.402†	-1687.5	-4.4	-0.0072 ug/L	-0.0072 ppb	10:58:47
2	Zn 213.857†	1590.8	869.0	7.4266 ug/L	7.4266 ppb	10:59:07
2	SiO2†	542.8	18.3	1.1464 ug/L	1.1464 ppb	10:59:43
3	Sc Radial	3791.9	3791.9	95.8 %		10:58:15
3	Y RADIAL	4336.7	4336.7	95.56 %		10:57:55

3	Al 396.153Radial†	-182.1	5.6	5.0572 ug/L	5.0572 ppb	10:57:55
3	Ca 317.933Radial†	19.1	3.7	7.3750 ug/L	7.3750 ppb	10:58:15
3	Fe 238.204 Radial†	-0.5	-12.3	7.2395 ug/L	7.2395 ppb	10:58:15
3	K 766.490 Radial†	3454.5	577.0	100.60 ug/L	100.60 ppb	10:57:55
3	Mg 279.077 IEC†	2.7	-0.5	-22.652 ug/L	-22.652 ppb	10:58:15
3	Na 589.592 Radial†	-1536.6	-19.6	-5.6229 ug/L	-5.6229 ppb	10:57:55
3	Sr 421.552†	32.3	33.3	0.2251 ug/L	0.2251 ppb	10:57:55
3	Sc 361.383	855259.8	855259.8	98.901 %		10:59:12
3	Y 371.029	676778.3	676778.3	99.221 %		10:59:12
3	Ag 328.068†	445.7	15.5	0.0172 ug/L	0.0172 ppb	10:59:12
3	As 188.979†	-20.6	14.6	5.5287 ug/L	5.5287 ppb	10:59:32
3	B 249.677†	353.7	964.4	5.8169 ug/L	5.8169 ppb	10:59:12
3	Ba 233.527†	2.8	20.9	0.1532 ug/L	0.1532 ppb	10:59:32
3	Be 313.107†	-3819.5	82.1	0.0284 ug/L	0.0284 ppb	10:59:12
3	Cd 226.502†	-203.7	-6.3	-0.0478 ug/L	-0.0478 ppb	10:59:32
3	Co 228.616†	273699.5	276826.6	5146.8 ug/L	5146.8 ppb	10:59:12
3	Cr 267.716†	110.6	22.7	0.2381 ug/L	0.2381 ppb	10:59:12
3	Cu 324.752†	6294.6	-483.8	-1.3988 ug/L	-1.3988 ppb	10:59:12
3	Mn 257.610†	493.7	6.8	-0.0066 ug/L	-0.0066 ppb	10:59:32
3	Mo 202.031†	1.1	-1.8	-0.1306 ug/L	-0.1306 ppb	10:59:32
3	Ni 231.604†	235.1	154.5	0.4023 ug/L	0.4023 ppb	10:59:32
3	P 214.914†	18609.9	18582.2	9447.2 ug/L	9447.2 ppb	10:59:12
3	Pb 220.353†	-54.1	16.4	1.8142 ug/L	1.8142 ppb	10:59:32
3	S 181.975 Axial†	68.6	17.5	21.135 ug/L	21.135 ppb	10:59:32
3	Sb 206.836†	57.8	22.9	7.0776 ug/L	7.0776 ppb	10:59:32
3	Se 196.026†	-28.2	1.0	0.0990 ug/L	0.0990 ppb	10:59:32
3	Si 251.611†	525.5	41.7	1.2435 ug/L	1.2435 ppb	10:59:32
3	Sn 189.927†	26.1	8.8	1.4218 ug/L	1.4218 ppb	10:59:32
3	Ti 334.940†	-1550.9	126.5	0.1950 ug/L	0.1950 ppb	10:59:12
3	Tl 190.801†	49.1	92.9	4.0104 ug/L	4.0104 ppb	10:59:32
3	U 409.014†	-4141.6	137.1	4.4663 ug/L	4.4663 ppb	10:59:12
3	V 292.402†	-1679.8	9.4	0.0924 ug/L	0.0924 ppb	10:59:12
3	Zn 213.857†	1616.0	888.9	7.5970 ug/L	7.5970 ppb	10:59:32
3	SiO2†	542.2	15.8	1.0123 ug/L	1.0123 ppb	10:59:48

Mean Data: LR2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	853577.2	98.707	%	0.1770				0.18%
Sc Radial	3805.8	96.1	%	0.34				0.35%
Y 371.029	674211.1	98.845	%	0.3260				0.33%
Y RADIAL	4320.9	95.21	%	1.046				1.10%
Ag 328.068†	56.7	0.2078	ug/L	0.22490	0.2078	ppb	0.22490	108.21%
Al 396.153Radial†	-1.6	-1.4297	ug/L	6.28692	-1.4297	ppb	6.28692	439.75%
As 188.979†	9.9	3.7466	ug/L	3.26526	3.7466	ppb	3.26526	87.15%
B 249.677†	1020.1	6.9613	ug/L	1.02240	6.9613	ppb	1.02240	14.69%
Ba 233.527†	25.8	0.1890	ug/L	0.05976	0.1890	ppb	0.05976	31.62%
Be 313.107†	83.4	0.0287	ug/L	0.01322	0.0287	ppb	0.01322	46.04%
Ca 317.933Radial†	5.9	11.636	ug/L	13.7666	11.636	ppb	13.7666	118.31%
Cd 226.502†	-1.9	-0.0036	ug/L	0.07567	-0.0036	ppb	0.07567	>999.9%
Co 228.616†	277549.6	5160.3	ug/L	11.83	5160.3	ppb	11.83	0.23%
Cr 267.716†	21.6	0.2272	ug/L	0.34956	0.2272	ppb	0.34956	153.86%
Cu 324.752†	-431.4	-1.2459	ug/L	0.20888	-1.2459	ppb	0.20888	16.76%
Fe 238.204 Radial†	-11.7	14.438	ug/L	11.7930	14.438	ppb	11.7930	81.68%
K 766.490 Radial†	531.7	92.690	ug/L	8.9936	92.690	ppb	8.9936	9.70%
Mg 279.077 IEC†	-0.3	-14.669	ug/L	78.7071	-14.669	ppb	78.7071	536.54%
Mn 257.610†	30.0	0.0175	ug/L	0.02478	0.0175	ppb	0.02478	141.98%
Mo 202.031†	8.4	0.5587	ug/L	0.59786	0.5587	ppb	0.59786	107.00%
Na 589.592 Radial†	-28.8	-8.2483	ug/L	2.57510	-8.2483	ppb	2.57510	31.22%
Ni 231.604†	145.3	0.1870	ug/L	0.19592	0.1870	ppb	0.19592	104.77%
P 214.914†	18642.1	9477.5	ug/L	26.62	9477.5	ppb	26.62	0.28%
Pb 220.353†	21.6	2.3779	ug/L	0.72766	2.3779	ppb	0.72766	30.60%
S 181.975 Axial†	10.1	12.183	ug/L	7.8734	12.183	ppb	7.8734	64.62%
Sb 206.836†	20.4	6.3042	ug/L	1.56204	6.3042	ppb	1.56204	24.78%
Se 196.026†	-0.0	-0.4427	ug/L	0.61964	-0.4427	ppb	0.61964	139.96%
Si 251.611†	33.0	0.9762	ug/L	0.52623	0.9762	ppb	0.52623	53.91%
Sn 189.927†	5.7	0.9253	ug/L	0.79515	0.9253	ppb	0.79515	85.94%
Sr 421.552†	22.9	0.1546	ug/L	0.20768	0.1546	ppb	0.20768	134.30%
Ti 334.940†	82.5	0.1292	ug/L	0.07978	0.1292	ppb	0.07978	61.73%
Tl 190.801†	95.2	4.6049	ug/L	2.25081	4.6049	ppb	2.25081	48.88%

U 409.014†	8.2	0.2809 ug/L	3.84957	0.2809 ppb	3.84957 >999.9%
V 292.402†	-64.7	-0.4208 ug/L	0.80408	-0.4208 ppb	0.80408 191.09%
Zn 213.857†	870.4	7.4400 ug/L	0.15078	7.4400 ppb	0.15078 2.03%
SiO2†	8.2	0.5075 ug/L	0.99276	0.5075 ppb	0.99276 195.63%

Sequence No.: 2

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/3/2010 11:01:59

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	3796.8	3796.8	95.9 %		11:04:11
1	Y RADIAL	4220.9	4220.9	93.00 %		11:03:51
1	Al 396.153Radial†	5204.7	5624.2	5029.2 ug/L	5029.2 ppb	11:03:51
1	Ca 317.933Radial†	2481.9	2572.2	5099.8 ug/L	5099.8 ppb	11:04:11
1	Fe 238.204 Radial†	423.2	429.6	5130.5 ug/L	5130.5 ppb	11:04:11
1	K 766.490 Radial†	30512.1	28792.7	5013.4 ug/L	5013.4 ppb	11:03:51
1	Mg 279.077 IEC†	119.2	121.1	5268.6 ug/L	5268.6 ppb	11:04:11
1	Na 589.592 Radial†	32734.9	35726.9	10244 ug/L	10244 ppb	11:03:51
1	Sr 421.552†	69913.6	72917.7	492.56 ug/L	492.56 ppb	11:03:51
1	Sc 361.383	861273.8	861273.8	99.597 %		11:05:10
1	Y 371.029	671762.9	671762.9	98.486 %		11:05:10
1	Ag 328.068†	105674.3	105667.0	482.83 ug/L	482.83 ppb	11:05:10
1	As 188.979†	1213.6	1254.0	482.52 ug/L	482.52 ppb	11:05:30
1	B 249.677†	21616.6	22311.0	471.87 ug/L	471.87 ppb	11:05:10
1	Ba 233.527†	63545.8	63821.1	482.07 ug/L	482.07 ppb	11:05:10
1	Be 313.107†	1398182.2	1407787.8	481.12 ug/L	481.12 ppb	11:05:10
1	Cd 226.502†	45556.3	45940.4	479.09 ug/L	479.09 ppb	11:05:10
1	Co 228.616†	25202.4	25390.9	472.12 ug/L	472.12 ppb	11:05:30
1	Cr 267.716†	45041.5	45134.9	482.12 ug/L	482.12 ppb	11:05:10
1	Cu 324.752†	172092.7	165941.2	476.31 ug/L	476.31 ppb	11:05:10
1	Mn 257.610†	467257.8	468657.4	480.09 ug/L	480.09 ppb	11:05:10
1	Mo 202.031†	7044.0	7069.7	482.13 ug/L	482.13 ppb	11:05:30
1	Ni 231.604†	20933.2	20934.7	475.38 ug/L	475.38 ppb	11:05:30
1	P 214.914†	4857.7	4643.0	2267.4 ug/L	2267.4 ppb	11:05:30
1	Pb 220.353†	4311.0	4399.6	482.93 ug/L	482.93 ppb	11:05:30
1	S 181.975 Axial†	837.6	789.0	953.83 ug/L	953.83 ppb	11:05:30
1	Sb 206.836†	1574.7	1545.6	493.08 ug/L	493.08 ppb	11:05:30
1	Se 196.026†	841.9	874.9	491.22 ug/L	491.22 ppb	11:05:30
1	Si 251.611†	81167.7	81006.8	2404.3 ug/L	2404.3 ppb	11:05:10
1	Sn 189.927†	2962.8	2957.2	481.01 ug/L	481.01 ppb	11:05:30
1	Ti 334.940†	315079.4	318049.8	488.20 ug/L	488.20 ppb	11:05:10
1	Tl 190.801†	1629.1	1679.0	483.17 ug/L	483.17 ppb	11:05:30
1	U 409.014†	9736.7	14100.9	455.96 ug/L	455.96 ppb	11:05:10
1	V 292.402†	66871.6	68850.2	484.28 ug/L	484.28 ppb	11:05:10
1	Zn 213.857†	56659.1	56143.4	476.08 ug/L	476.08 ppb	11:05:10
1	SiO2†	80222.8	80015.2	5093.8 ug/L	5093.8 ppb	11:06:30
2	Sc Radial	3797.6	3797.6	95.9 %		11:04:36
2	Y RADIAL	4330.4	4330.4	95.42 %		11:04:16
2	Al 396.153Radial†	5279.1	5700.7	5097.8 ug/L	5097.8 ppb	11:04:16
2	Ca 317.933Radial†	2489.8	2580.0	5115.2 ug/L	5115.2 ppb	11:04:36
2	Fe 238.204 Radial†	426.7	433.1	5173.0 ug/L	5173.0 ppb	11:04:36
2	K 766.490 Radial†	30894.1	29184.7	5081.7 ug/L	5081.7 ppb	11:04:16
2	Mg 279.077 IEC†	120.5	122.3	5322.4 ug/L	5322.4 ppb	11:04:36
2	Na 589.592 Radial†	33099.1	36099.8	10351 ug/L	10351 ppb	11:04:16
2	Sr 421.552†	71030.9	74068.2	500.33 ug/L	500.33 ppb	11:04:16
2	Sc 361.383	859176.8	859176.8	99.354 %		11:05:37
2	Y 371.029	668673.8	668673.8	98.033 %		11:05:37
2	Ag 328.068†	105451.3	105701.6	483.00 ug/L	483.00 ppb	11:05:37
2	As 188.979†	1203.1	1246.3	479.62 ug/L	479.62 ppb	11:05:57
2	B 249.677†	21644.2	22391.7	473.58 ug/L	473.58 ppb	11:05:37
2	Ba 233.527†	63323.3	63752.9	481.56 ug/L	481.56 ppb	11:05:37
2	Be 313.107†	1392391.4	1405385.8	480.30 ug/L	480.30 ppb	11:05:37
2	Cd 226.502†	45373.7	45868.2	478.34 ug/L	478.34 ppb	11:05:37
2	Co 228.616†	25203.2	25453.4	473.28 ug/L	473.28 ppb	11:05:57
2	Cr 267.716†	44779.3	44981.4	480.48 ug/L	480.48 ppb	11:05:37
2	Cu 324.752†	172209.0	166480.1	477.86 ug/L	477.86 ppb	11:05:37
2	Mn 257.610†	466193.0	468730.7	480.17 ug/L	480.17 ppb	11:05:37
2	Mo 202.031†	7057.2	7100.3	484.22 ug/L	484.22 ppb	11:05:57
2	Ni 231.604†	20915.3	20968.1	476.14 ug/L	476.14 ppb	11:05:57

2	P 214.914†	4850.0	4647.0	2269.1 ug/L	2269.1 ppb	11:05:57
2	Pb 220.353†	4302.7	4401.8	483.18 ug/L	483.18 ppb	11:05:57
2	S 181.975 Axial†	832.2	785.7	949.77 ug/L	949.77 ppb	11:05:57
2	Sb 206.836†	1575.4	1550.1	494.50 ug/L	494.50 ppb	11:05:57
2	Se 196.026†	838.7	873.7	490.72 ug/L	490.72 ppb	11:05:57
2	Si 251.611†	80952.5	80989.1	2403.7 ug/L	2403.7 ppb	11:05:37
2	Sn 189.927†	2945.3	2946.8	479.33 ug/L	479.33 ppb	11:05:57
2	Ti 334.940†	314862.4	318603.5	489.04 ug/L	489.04 ppb	11:05:37
2	Tl 190.801†	1625.9	1679.7	483.40 ug/L	483.40 ppb	11:05:57
2	U 409.014†	9825.8	14214.4	459.64 ug/L	459.64 ppb	11:05:37
2	V 292.402†	66763.8	68905.6	484.69 ug/L	484.69 ppb	11:05:37
2	Zn 213.857†	56363.0	55984.3	474.71 ug/L	474.71 ppb	11:05:37
2	SiO2†	81076.0	81070.6	5161.1 ug/L	5161.1 ppb	11:06:35
3	Sc Radial	3849.4	3849.4	97.2 %		11:05:01
3	Y RADIAL	4264.4	4264.4	93.96 %		11:04:41
3	Al 396.153Radial†	5232.9	5579.1	4988.6 ug/L	4988.6 ppb	11:04:41
3	Ca 317.933Radial†	2495.9	2551.4	5058.5 ug/L	5058.5 ppb	11:05:01
3	Fe 238.204 Radial†	427.3	427.7	5108.3 ug/L	5108.3 ppb	11:05:01
3	K 766.490 Radial†	30718.0	28570.0	4974.7 ug/L	4974.7 ppb	11:04:41
3	Mg 279.077 IEC†	117.9	118.0	5133.7 ug/L	5133.7 ppb	11:05:01
3	Na 589.592 Radial†	32743.9	35270.0	10113 ug/L	10113 ppb	11:04:41
3	Sr 421.552†	70293.0	72312.6	488.47 ug/L	488.47 ppb	11:04:41
3	Sc 361.383	861086.6	861086.6	99.575 %		11:06:05
3	Y 371.029	671612.2	671612.2	98.464 %		11:06:05
3	Ag 328.068†	105604.5	105620.0	482.61 ug/L	482.61 ppb	11:06:05
3	As 188.979†	1206.9	1247.5	480.03 ug/L	480.03 ppb	11:06:25
3	B 249.677†	21621.6	22320.6	472.09 ug/L	472.09 ppb	11:06:05
3	Ba 233.527†	63458.5	63747.4	481.52 ug/L	481.52 ppb	11:06:05
3	Be 313.107†	1397657.2	1407565.8	481.04 ug/L	481.04 ppb	11:06:05
3	Cd 226.502†	45453.1	45846.7	478.12 ug/L	478.12 ppb	11:06:05
3	Co 228.616†	25115.3	25308.9	470.59 ug/L	470.59 ppb	11:06:25
3	Cr 267.716†	44941.7	45044.5	481.15 ug/L	481.15 ppb	11:06:05
3	Cu 324.752†	172403.0	166290.4	477.31 ug/L	477.31 ppb	11:06:05
3	Mn 257.610†	466729.6	468229.0	479.66 ug/L	479.66 ppb	11:06:05
3	Mo 202.031†	7038.2	7065.4	481.83 ug/L	481.83 ppb	11:06:25
3	Ni 231.604†	20864.8	20870.7	473.93 ug/L	473.93 ppb	11:06:25
3	P 214.914†	4835.4	4621.6	2256.3 ug/L	2256.3 ppb	11:06:25
3	Pb 220.353†	4305.9	4395.5	482.46 ug/L	482.46 ppb	11:06:25
3	S 181.975 Axial†	828.7	780.3	943.24 ug/L	943.24 ppb	11:06:25
3	Sb 206.836†	1579.5	1550.7	494.63 ug/L	494.63 ppb	11:06:25
3	Se 196.026†	844.5	877.6	492.66 ug/L	492.66 ppb	11:06:25
3	Si 251.611†	80952.3	80808.2	2398.4 ug/L	2398.4 ppb	11:06:05
3	Sn 189.927†	2953.8	2948.8	479.64 ug/L	479.64 ppb	11:06:25
3	Ti 334.940†	314807.3	317845.3	487.89 ug/L	487.89 ppb	11:06:05
3	Tl 190.801†	1629.0	1679.2	483.23 ug/L	483.23 ppb	11:06:25
3	U 409.014†	10036.1	14403.7	465.79 ug/L	465.79 ppb	11:06:05
3	V 292.402†	67030.0	69023.9	485.50 ug/L	485.50 ppb	11:06:05
3	Zn 213.857†	56447.4	55943.2	474.38 ug/L	474.38 ppb	11:06:05
3	SiO2†	80782.5	80594.8	5130.8 ug/L	5130.8 ppb	11:06:40

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	860512.4	99.509 %	0.1342			0.13%
Sc Radial	3814.6	96.3 %	0.76			0.79%
Y 371.029	670683.0	98.327 %	0.2553			0.26%
Y RADIAL	4271.9	94.13 %	1.215			1.29%
Ag 328.068†	105662.9	482.81 ug/L	0.197	482.81 ppb	0.197	0.04%
QC value within limits for Ag 328.068 Recovery = 96.56%						
Al 396.153Radial†	5634.7	5038.5 ug/L	55.18	5038.5 ppb	55.18	1.10%
QC value within limits for Al 396.153Radial Recovery = 100.77%						
As 188.979†	1249.3	480.72 ug/L	1.569	480.72 ppb	1.569	0.33%
QC value within limits for As 188.979 Recovery = 96.14%						
B 249.677†	22341.1	472.51 ug/L	0.929	472.51 ppb	0.929	0.20%
QC value within limits for B 249.677 Recovery = 94.50%						
Ba 233.527†	63773.8	481.72 ug/L	0.308	481.72 ppb	0.308	0.06%
QC value within limits for Ba 233.527 Recovery = 96.34%						
Be 313.107†	1406913.2	480.82 ug/L	0.451	480.82 ppb	0.451	0.09%
QC value within limits for Be 313.107 Recovery = 96.16%						
Ca 317.933Radial†	2567.9	5091.2 ug/L	29.35	5091.2 ppb	29.35	0.58%

QC value within limits for Ca 317.933 Radial Recovery = 101.82%

Cd 226.502†	45885.1	478.52 ug/L	0.512	478.52 ppb	0.512	0.11%
QC value within limits for Cd 226.502 Recovery = 95.70%						
Co 228.616†	25384.4	472.00 ug/L	1.349	472.00 ppb	1.349	0.29%
QC value within limits for Co 228.616 Recovery = 94.40%						
Cr 267.716†	45053.6	481.25 ug/L	0.823	481.25 ppb	0.823	0.17%
QC value within limits for Cr 267.716 Recovery = 96.25%						
Cu 324.752†	166237.2	477.16 ug/L	0.784	477.16 ppb	0.784	0.16%
QC value within limits for Cu 324.752 Recovery = 95.43%						
Fe 238.204 Radial†	430.2	5137.3 ug/L	32.87	5137.3 ppb	32.87	0.64%
QC value within limits for Fe 238.204 Radial Recovery = 102.75%						
K 766.490 Radial†	28849.1	5023.3 ug/L	54.20	5023.3 ppb	54.20	1.08%
QC value within limits for K 766.490 Radial Recovery = 100.47%						
Mg 279.077 IEC†	120.5	5241.6 ug/L	97.20	5241.6 ppb	97.20	1.85%
QC value within limits for Mg 279.077 IEC Recovery = 104.83%						
Mn 257.610†	468539.0	479.97 ug/L	0.276	479.97 ppb	0.276	0.06%
QC value within limits for Mn 257.610 Recovery = 95.99%						
Mo 202.031†	7078.5	482.73 ug/L	1.299	482.73 ppb	1.299	0.27%
QC value within limits for Mo 202.031 Recovery = 96.55%						
Na 589.592 Radial†	35698.9	10236 ug/L	119.2	10236 ppb	119.2	1.16%
QC value within limits for Na 589.592 Radial Recovery = 102.36%						
Ni 231.604†	20924.5	475.15 ug/L	1.124	475.15 ppb	1.124	0.24%
QC value within limits for Ni 231.604 Recovery = 95.03%						
P 214.914†	4637.2	2264.3 ug/L	6.94	2264.3 ppb	6.94	0.31%
QC value within limits for P 214.914 Recovery = 90.57%						
Pb 220.353†	4399.0	482.86 ug/L	0.365	482.86 ppb	0.365	0.08%
QC value within limits for Pb 220.353 Recovery = 96.57%						
S 181.975 Axial†	785.0	948.95 ug/L	5.340	948.95 ppb	5.340	0.56%
QC value within limits for S 181.975 Axial Recovery = 94.89%						
Sb 206.836†	1548.8	494.07 ug/L	0.857	494.07 ppb	0.857	0.17%
QC value within limits for Sb 206.836 Recovery = 98.81%						
Se 196.026†	875.4	491.53 ug/L	1.007	491.53 ppb	1.007	0.20%
QC value within limits for Se 196.026 Recovery = 98.31%						
Si 251.611†	80934.7	2402.1 ug/L	3.26	2402.1 ppb	3.26	0.14%
QC value within limits for Si 251.611 Recovery = 96.09%						
Sn 189.927†	2950.9	479.99 ug/L	0.895	479.99 ppb	0.895	0.19%
QC value within limits for Sn 189.927 Recovery = 96.00%						
Sr 421.552†	73099.5	493.79 ug/L	6.025	493.79 ppb	6.025	1.22%
QC value within limits for Sr 421.552 Recovery = 98.76%						
Ti 334.940†	318166.2	488.38 ug/L	0.600	488.38 ppb	0.600	0.12%
QC value within limits for Ti 334.940 Recovery = 97.68%						
Tl 190.801†	1679.3	483.27 ug/L	0.116	483.27 ppb	0.116	0.02%
QC value within limits for Tl 190.801 Recovery = 96.65%						
U 409.014†	14239.7	460.47 ug/L	4.968	460.47 ppb	4.968	1.08%
QC value within limits for U 409.014 Recovery = 92.09%						
V 292.402†	68926.6	484.82 ug/L	0.621	484.82 ppb	0.621	0.13%
QC value within limits for V 292.402 Recovery = 96.96%						
Zn 213.857†	56023.6	475.06 ug/L	0.903	475.06 ppb	0.903	0.19%
QC value within limits for Zn 213.857 Recovery = 95.01%						
SiO2†	80560.2	5128.6 ug/L	33.71	5128.6 ppb	33.71	0.66%
QC value within limits for SiO2 Recovery = 95.91%						

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/3/2010 11:08:51

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	3782.8	3782.8	95.5 %		11:11:03
1	Y RADIAL	4286.7	4286.7	94.45 %		11:10:43
1	Al 396.153Radial†	-189.9	-3.0	-2.6999 ug/L	-2.6999 ppb	11:10:43
1	Ca 317.933Radial†	19.6	4.3	8.4566 ug/L	8.4566 ppb	11:11:03
1	Fe 238.204 Radial†	12.6	1.4	16.098 ug/L	16.098 ppb	11:11:03
1	K 766.490 Radial†	3420.2	549.7	95.846 ug/L	95.846 ppb	11:10:43
1	Mg 279.077 IEC†	1.2	-2.0	-88.997 ug/L	-88.997 ppb	11:11:03
1	Na 589.592 Radial†	-1545.1	-32.3	-9.2727 ug/L	-9.2727 ppb	11:10:43
1	Sr 421.552†	42.4	43.9	0.2968 ug/L	0.2968 ppb	11:10:43
1	Sc 361.383	845981.9	845981.9	97.828 %		11:12:00
1	Y 371.029	667757.4	667757.4	97.898 %		11:12:00
1	Ag 328.068†	435.9	10.4	0.0587 ug/L	0.0587 ppb	11:12:00
1	As 188.979†	-21.9	13.0	4.9761 ug/L	4.9761 ppb	11:12:20
1	B 249.677†	-329.4	270.1	5.7354 ug/L	5.7354 ppb	11:12:00
1	Ba 233.527†	3.7	21.8	0.1637 ug/L	0.1637 ppb	11:12:20
1	Be 313.107†	-3828.3	30.8	0.0103 ug/L	0.0103 ppb	11:12:00
1	Cd 226.502†	-200.7	-5.6	-0.0613 ug/L	-0.0613 ppb	11:12:20
1	Co 228.616†	-81.7	2.9	0.0555 ug/L	0.0555 ppb	11:12:20
1	Cr 267.716†	113.0	26.4	0.2856 ug/L	0.2856 ppb	11:12:00
1	Cu 324.752†	6876.0	180.4	0.5239 ug/L	0.5239 ppb	11:12:00
1	Mn 257.610†	528.0	47.3	0.0536 ug/L	0.0536 ppb	11:12:20
1	Mo 202.031†	13.7	11.1	0.7605 ug/L	0.7605 ppb	11:12:20
1	Ni 231.604†	98.8	17.8	0.4044 ug/L	0.4044 ppb	11:12:20
1	P 214.914†	236.2	7.0	3.4365 ug/L	3.4365 ppb	11:12:20
1	Pb 220.353†	-88.0	-18.8	-2.0592 ug/L	-2.0592 ppb	11:12:20
1	S 181.975 Axial†	57.3	6.6	8.0419 ug/L	8.0419 ppb	11:12:20
1	Sb 206.836†	51.7	17.3	5.3574 ug/L	5.3574 ppb	11:12:20
1	Se 196.026†	-24.2	4.8	2.6583 ug/L	2.6583 ppb	11:12:20
1	Si 251.611†	533.3	55.5	1.6434 ug/L	1.6434 ppb	11:12:20
1	Sn 189.927†	27.0	10.0	1.6257 ug/L	1.6257 ppb	11:12:20
1	Ti 334.940†	-1701.9	-45.1	-0.0568 ug/L	-0.0568 ppb	11:12:00
1	Tl 190.801†	-39.4	2.9	0.8327 ug/L	0.8327 ppb	11:12:20
1	U 409.014†	-4520.9	-296.5	-9.6252 ug/L	-9.6252 ppb	11:12:00
1	V 292.402†	-1727.9	-58.4	-0.4175 ug/L	-0.4175 ppb	11:12:00
1	Zn 213.857†	773.5	45.6	0.3850 ug/L	0.3850 ppb	11:12:20
1	SiO2†	586.9	67.5	4.2868 ug/L	4.2868 ppb	11:13:16
2	Sc Radial	3817.7	3817.7	96.4 %		11:11:28
2	Y RADIAL	4292.9	4292.9	94.59 %		11:11:08
2	Al 396.153Radial†	-178.9	10.2	9.1297 ug/L	9.1297 ppb	11:11:08
2	Ca 317.933Radial†	17.3	1.6	3.2250 ug/L	3.2250 ppb	11:11:28
2	Fe 238.204 Radial†	11.8	0.5	5.3966 ug/L	5.3966 ppb	11:11:28
2	K 766.490 Radial†	3297.5	389.7	67.940 ug/L	67.940 ppb	11:11:08
2	Mg 279.077 IEC†	3.3	0.1	5.1696 ug/L	5.1696 ppb	11:11:28
2	Na 589.592 Radial†	-1530.9	-2.8	-0.8128 ug/L	-0.8128 ppb	11:11:08
2	Sr 421.552†	42.6	43.7	0.2955 ug/L	0.2955 ppb	11:11:08
2	Sc 361.383	842846.9	842846.9	97.466 %		11:12:25
2	Y 371.029	664565.8	664565.8	97.431 %		11:12:25
2	Ag 328.068†	404.1	-20.6	-0.0924 ug/L	-0.0924 ppb	11:12:25
2	As 188.979†	-16.0	19.0	7.2564 ug/L	7.2564 ppb	11:12:45
2	B 249.677†	-280.1	319.4	6.7856 ug/L	6.7856 ppb	11:12:25
2	Ba 233.527†	-12.1	5.6	0.0399 ug/L	0.0399 ppb	11:12:45
2	Be 313.107†	-3870.7	-27.3	-0.0099 ug/L	-0.0099 ppb	11:12:25
2	Cd 226.502†	-206.9	-12.6	-0.1326 ug/L	-0.1326 ppb	11:12:45
2	Co 228.616†	-81.1	3.2	0.0608 ug/L	0.0608 ppb	11:12:45
2	Cr 267.716†	74.7	-12.4	-0.1323 ug/L	-0.1323 ppb	11:12:25
2	Cu 324.752†	6925.3	257.0	0.7402 ug/L	0.7402 ppb	11:12:25
2	Mn 257.610†	487.4	7.7	0.0082 ug/L	0.0082 ppb	11:12:45
2	Mo 202.031†	12.6	10.1	0.6880 ug/L	0.6880 ppb	11:12:45
2	Ni 231.604†	95.0	14.3	0.3245 ug/L	0.3245 ppb	11:12:45

2	P 214.914†	242.2	14.0	6.9695 ug/L	6.9695 ppb	11:12:45
2	Pb 220.353†	-63.4	6.1	0.6751 ug/L	0.6751 ppb	11:12:45
2	S 181.975 Axial†	54.5	4.0	4.8342 ug/L	4.8342 ppb	11:12:45
2	Sb 206.836†	49.9	15.7	4.8445 ug/L	4.8445 ppb	11:12:45
2	Se 196.026†	-22.6	6.3	3.4254 ug/L	3.4254 ppb	11:12:45
2	Si 251.611†	515.0	38.9	1.1479 ug/L	1.1479 ppb	11:12:45
2	Sn 189.927†	16.9	-0.3	-0.0521 ug/L	-0.0521 ppb	11:12:45
2	Ti 334.940†	-1810.9	-163.4	-0.2491 ug/L	-0.2491 ppb	11:12:25
2	Tl 190.801†	-36.4	5.9	1.6784 ug/L	1.6784 ppb	11:12:45
2	U 409.014†	-4330.8	-118.6	-3.8490 ug/L	-3.8490 ppb	11:12:25
2	V 292.402†	-1802.1	-141.1	-0.9775 ug/L	-0.9775 ppb	11:12:25
2	Zn 213.857†	771.9	46.9	0.3978 ug/L	0.3978 ppb	11:12:45
2	SiO2†	556.4	38.4	2.4339 ug/L	2.4339 ppb	11:13:21
3	Sc Radial	3789.5	3789.5	95.7 %		11:11:53
3	Y RADIAL	4319.2	4319.2	95.17 %		11:11:33
3	Al 396.153Radial†	-217.6	-31.6	-28.408 ug/L	-28.408 ppb	11:11:33
3	Ca 317.933Radial†	18.1	2.7	5.3074 ug/L	5.3074 ppb	11:11:53
3	Fe 238.204 Radial†	12.9	1.6	19.220 ug/L	19.220 ppb	11:11:53
3	K 766.490 Radial†	3439.0	563.0	98.165 ug/L	98.165 ppb	11:11:33
3	Mg 279.077 IEC†	1.0	-2.3	-99.269 ug/L	-99.269 ppb	11:11:53
3	Na 589.592 Radial†	-1608.6	-95.8	-27.480 ug/L	-27.480 ppb	11:11:33
3	Sr 421.552†	10.4	10.5	0.0707 ug/L	0.0707 ppb	11:11:33
3	Sc 361.383	852435.4	852435.4	98.575 %		11:12:51
3	Y 371.029	672356.1	672356.1	98.573 %		11:12:51
3	Ag 328.068†	334.8	-95.5	-0.4219 ug/L	-0.4219 ppb	11:12:51
3	As 188.979†	-22.3	12.8	4.8932 ug/L	4.8932 ppb	11:13:11
3	B 249.677†	-298.9	303.6	6.4472 ug/L	6.4472 ppb	11:12:51
3	Ba 233.527†	12.9	31.2	0.2356 ug/L	0.2356 ppb	11:13:11
3	Be 313.107†	-3935.2	-48.0	-0.0168 ug/L	-0.0168 ppb	11:12:51
3	Cd 226.502†	-202.1	-5.4	-0.0598 ug/L	-0.0598 ppb	11:13:11
3	Co 228.616†	-85.0	0.2	0.0049 ug/L	0.0049 ppb	11:13:11
3	Cr 267.716†	57.5	-30.7	-0.3251 ug/L	-0.3251 ppb	11:12:51
3	Cu 324.752†	6928.4	180.3	0.5218 ug/L	0.5218 ppb	11:12:51
3	Mn 257.610†	521.2	36.2	0.0431 ug/L	0.0431 ppb	11:13:11
3	Mo 202.031†	7.4	4.7	0.3193 ug/L	0.3193 ppb	11:13:11
3	Ni 231.604†	89.7	7.8	0.1762 ug/L	0.1762 ppb	11:13:11
3	P 214.914†	237.1	6.1	2.9756 ug/L	2.9756 ppb	11:13:11
3	Pb 220.353†	-81.8	-11.8	-1.2972 ug/L	-1.2972 ppb	11:13:11
3	S 181.975 Axial†	56.8	5.7	6.9408 ug/L	6.9408 ppb	11:13:11
3	Sb 206.836†	42.5	7.5	2.3305 ug/L	2.3305 ppb	11:13:11
3	Se 196.026†	-28.4	0.7	0.4187 ug/L	0.4187 ppb	11:13:11
3	Si 251.611†	545.3	63.6	1.8883 ug/L	1.8883 ppb	11:13:11
3	Sn 189.927†	19.1	1.8	0.2855 ug/L	0.2855 ppb	11:13:11
3	Ti 334.940†	-1787.5	-118.7	-0.1708 ug/L	-0.1708 ppb	11:12:51
3	Tl 190.801†	-36.3	6.4	1.8158 ug/L	1.8158 ppb	11:13:11
3	U 409.014†	-4437.5	-176.9	-5.7412 ug/L	-5.7412 ppb	11:12:51
3	V 292.402†	-1671.5	12.2	0.0736 ug/L	0.0736 ppb	11:12:51
3	Zn 213.857†	767.7	33.7	0.2844 ug/L	0.2844 ppb	11:13:11
3	SiO2†	555.7	31.3	1.9881 ug/L	1.9881 ppb	11:13:26

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	847088.1	97.956 %		0.5654			0.58%
Sc Radial	3796.7	95.9 %		0.47			0.49%
Y 371.029	668226.4	97.967 %		0.5742			0.59%
Y RADIAL	4299.6	94.74 %		0.381			0.40%
Ag 328.068†	-35.2	-0.1519 ug/L		0.24581	-0.1519 ppb	0.24581	161.87%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-8.1	-7.3261 ug/L		19.19170	-7.3261 ppb	19.19170	261.96%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	15.0	5.7086 ug/L		1.34110	5.7086 ppb	1.34110	23.49%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	297.7	6.3227 ug/L		0.53601	6.3227 ppb	0.53601	8.48%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	19.5	0.1464 ug/L		0.09898	0.1464 ppb	0.09898	67.61%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-14.8	-0.0054 ug/L		0.01410	-0.0054 ppb	0.01410	259.60%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	2.9	5.6630 ug/L		2.63387	5.6630 ppb	2.63387	46.51%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-7.9	-0.0846 ug/L	0.04159	-0.0846 ppb	0.04159	49.18%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	2.1	0.0404 ug/L	0.03084	0.0404 ppb	0.03084	76.35%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-5.6	-0.0573 ug/L	0.31219	-0.0573 ppb	0.31219	545.25%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	205.9	0.5953 ug/L	0.12545	0.5953 ppb	0.12545	21.07%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.1	13.572 ug/L	7.2498	13.572 ppb	7.2498	53.42%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	500.8	87.317 ug/L	16.8211	87.317 ppb	16.8211	19.26%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.4	-61.032 ug/L	57.5619	-61.032 ppb	57.5619	94.31%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	30.4	0.0350 ug/L	0.02379	0.0350 ppb	0.02379	68.06%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	8.6	0.5892 ug/L	0.23659	0.5892 ppb	0.23659	40.15%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-43.7	-12.522 ug/L	13.6275	-12.522 ppb	13.6275	108.83%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	13.3	0.3017 ug/L	0.11580	0.3017 ppb	0.11580	38.38%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	9.0	4.4605 ug/L	2.18501	4.4605 ppb	2.18501	48.99%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-8.2	-0.8938 ug/L	1.41110	-0.8938 ppb	1.41110	157.88%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	5.5	6.6056 ug/L	1.62989	6.6056 ppb	1.62989	24.67%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	13.5	4.1775 ug/L	1.61999	4.1775 ppb	1.61999	38.78%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	3.9	2.1675 ug/L	1.56227	2.1675 ppb	1.56227	72.08%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	52.7	1.5599 ug/L	0.37721	1.5599 ppb	0.37721	24.18%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	3.8	0.6197 ug/L	0.88740	0.6197 ppb	0.88740	143.20%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	32.7	0.2210 ug/L	0.13014	0.2210 ppb	0.13014	58.88%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-109.1	-0.1589 ug/L	0.09670	-0.1589 ppb	0.09670	60.87%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	5.0	1.4423 ug/L	0.53236	1.4423 ppb	0.53236	36.91%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-197.3	-6.4051 ug/L	2.94479	-6.4051 ppb	2.94479	45.98%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-62.5	-0.4405 ug/L	0.52594	-0.4405 ppb	0.52594	119.40%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	42.1	0.3557 ug/L	0.06209	0.3557 ppb	0.06209	17.46%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	45.7	2.9029 ug/L	1.21901	2.9029 ppb	1.21901	41.99%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/3/2010 12:23:30

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3732.0	3732.0	94.2 %		12:25:43
1	Y RADIAL	4247.3	4247.3	93.59 %		12:25:22
1	Al 396.153Radial†	5288.2	5807.0	5193.4 ug/L	5193.4 ppb	12:25:22
1	Ca 317.933Radial†	2459.9	2593.9	5142.9 ug/L	5142.9 ppb	12:25:43
1	Fe 238.204 Radial†	415.7	429.2	5126.4 ug/L	5126.4 ppb	12:25:43
1	K 766.490 Radial†	30748.4	29596.1	5153.4 ug/L	5153.4 ppb	12:25:22
1	Mg 279.077 IEC†	119.5	123.5	5374.4 ug/L	5374.4 ppb	12:25:43
1	Na 589.592 Radial†	32710.3	36293.8	10407 ug/L	10407 ppb	12:25:22
1	Sr 421.552†	70694.8	75013.3	506.71 ug/L	506.71 ppb	12:25:22
1	Sc 361.383	856294.9	856294.9	99.021 %		12:26:41
1	Y 371.029	665371.4	665371.4	97.549 %		12:26:41
1	Ag 328.068†	105908.2	106520.2	486.70 ug/L	486.70 ppb	12:26:41
1	As 188.979†	1201.6	1248.9	480.65 ug/L	480.65 ppb	12:27:01
1	B 249.677†	21514.8	22334.3	472.37 ug/L	472.37 ppb	12:26:41
1	Ba 233.527†	63628.0	64275.1	485.50 ug/L	485.50 ppb	12:26:41
1	Be 313.107†	1391749.5	1409454.3	481.70 ug/L	481.70 ppb	12:26:41
1	Cd 226.502†	43973.2	44607.6	465.19 ug/L	465.19 ppb	12:27:01
1	Co 228.616†	25047.8	25381.9	471.94 ug/L	471.94 ppb	12:27:01
1	Cr 267.716†	44920.6	45275.6	483.62 ug/L	483.62 ppb	12:26:41
1	Cu 324.752†	173553.0	168420.7	483.42 ug/L	483.42 ppb	12:26:41
1	Mn 257.610†	468366.9	472505.3	484.03 ug/L	484.03 ppb	12:26:41
1	Mo 202.031†	7007.0	7073.5	482.39 ug/L	482.39 ppb	12:27:01
1	Ni 231.604†	20761.4	20883.4	474.22 ug/L	474.22 ppb	12:27:01
1	P 214.914†	4817.3	4630.5	2259.7 ug/L	2259.7 ppb	12:27:01
1	Pb 220.353†	4262.4	4375.7	480.34 ug/L	480.34 ppb	12:27:01
1	S 181.975 Axial†	824.8	781.0	944.13 ug/L	944.13 ppb	12:27:01
1	Sb 206.836†	1560.7	1540.6	491.52 ug/L	491.52 ppb	12:27:01
1	Se 196.026†	830.4	868.1	487.55 ug/L	487.55 ppb	12:27:01
1	Si 251.611†	81399.1	81714.4	2425.3 ug/L	2425.3 ppb	12:26:41
1	Sn 189.927†	2935.9	2947.3	479.41 ug/L	479.41 ppb	12:27:01
1	Ti 334.940†	316758.9	321585.4	493.62 ug/L	493.62 ppb	12:26:41
1	Tl 190.801†	1602.4	1661.5	478.24 ug/L	478.24 ppb	12:27:01
1	U 409.014†	10166.5	14591.8	471.89 ug/L	471.89 ppb	12:26:41
1	V 292.402†	66972.3	69342.3	487.72 ug/L	487.72 ppb	12:26:41
1	Zn 213.857†	56459.9	56273.0	477.19 ug/L	477.19 ppb	12:26:41
1	SiO2†	81364.7	81636.7	5197.3 ug/L	5197.3 ppb	12:28:02
2	Sc Radial	3755.3	3755.3	94.8 %		12:26:08
2	Y RADIAL	4201.9	4201.9	92.59 %		12:25:48
2	Al 396.153Radial†	5248.9	5730.8	5125.0 ug/L	5125.0 ppb	12:25:48
2	Ca 317.933Radial†	2488.2	2607.5	5169.8 ug/L	5169.8 ppb	12:26:08
2	Fe 238.204 Radial†	422.0	433.2	5173.9 ug/L	5173.9 ppb	12:26:08
2	K 766.490 Radial†	30456.8	29085.9	5064.5 ug/L	5064.5 ppb	12:25:48
2	Mg 279.077 IEC†	110.2	112.9	4911.1 ug/L	4911.1 ppb	12:26:08
2	Na 589.592 Radial†	32177.7	35516.3	10184 ug/L	10184 ppb	12:25:48
2	Sr 421.552†	69923.2	73733.2	498.07 ug/L	498.07 ppb	12:25:48
2	Sc 361.383	860689.9	860689.9	99.529 %		12:27:09
2	Y 371.029	670350.1	670350.1	98.279 %		12:27:09
2	Ag 328.068†	106282.6	106350.2	485.95 ug/L	485.95 ppb	12:27:09
2	As 188.979†	1185.9	1227.0	472.28 ug/L	472.28 ppb	12:27:29
2	B 249.677†	21677.4	22386.7	473.48 ug/L	473.48 ppb	12:27:09
2	Ba 233.527†	63874.7	64194.9	484.90 ug/L	484.90 ppb	12:27:09
2	Be 313.107†	1397415.1	1407969.4	481.19 ug/L	481.19 ppb	12:27:09
2	Cd 226.502†	44150.3	44558.8	464.68 ug/L	464.68 ppb	12:27:29
2	Co 228.616†	25192.3	25397.8	472.24 ug/L	472.24 ppb	12:27:29
2	Cr 267.716†	45164.1	45288.7	483.76 ug/L	483.76 ppb	12:27:09
2	Cu 324.752†	174064.1	168039.2	482.33 ug/L	482.33 ppb	12:27:09
2	Mn 257.610†	469411.7	471139.8	482.65 ug/L	482.65 ppb	12:27:09
2	Mo 202.031†	7028.6	7059.1	481.41 ug/L	481.41 ppb	12:27:29
2	Ni 231.604†	20841.1	20856.5	473.60 ug/L	473.60 ppb	12:27:29

2	P 214.914†	4823.4	4611.8	2250.3 ug/L	2250.3 ppb	12:27:29
2	Pb 220.353†	4285.3	4376.8	480.44 ug/L	480.44 ppb	12:27:29
2	S 181.975 Axial†	819.8	771.8	932.91 ug/L	932.91 ppb	12:27:29
2	Sb 206.836†	1576.5	1548.4	493.90 ug/L	493.90 ppb	12:27:29
2	Se 196.026†	843.2	876.7	492.33 ug/L	492.33 ppb	12:27:29
2	Si 251.611†	81661.2	81557.9	2420.7 ug/L	2420.7 ppb	12:27:09
2	Sn 189.927†	2948.9	2945.2	479.07 ug/L	479.07 ppb	12:27:29
2	Ti 334.940†	318085.9	321285.1	493.20 ug/L	493.20 ppb	12:27:09
2	Tl 190.801†	1612.6	1663.5	478.79 ug/L	478.79 ppb	12:27:29
2	U 409.014†	10216.5	14589.6	471.81 ug/L	471.81 ppb	12:27:09
2	V 292.402†	67361.3	69387.8	488.01 ug/L	488.01 ppb	12:27:09
2	Zn 213.857†	56653.4	56176.3	476.36 ug/L	476.36 ppb	12:27:09
2	SiO2†	80230.9	80078.0	5097.8 ug/L	5097.8 ppb	12:28:07
3	Sc Radial	3735.7	3735.7	94.3 %		12:26:33
3	Y RADIAL	4211.1	4211.1	92.79 %		12:26:13
3	Al 396.153Radial†	5222.8	5732.1	5125.9 ug/L	5125.9 ppb	12:26:13
3	Ca 317.933Radial†	2462.7	2594.3	5143.5 ug/L	5143.5 ppb	12:26:33
3	Fe 238.204 Radial†	419.4	432.8	5168.6 ug/L	5168.6 ppb	12:26:33
3	K 766.490 Radial†	30257.7	29043.2	5057.1 ug/L	5057.1 ppb	12:26:13
3	Mg 279.077 IEC†	117.6	121.3	5279.6 ug/L	5279.6 ppb	12:26:33
3	Na 589.592 Radial†	32293.3	35816.9	10270 ug/L	10270 ppb	12:26:13
3	Sr 421.552†	69764.4	73951.7	499.54 ug/L	499.54 ppb	12:26:13
3	Sc 361.383	856829.6	856829.6	99.083 %		12:27:36
3	Y 371.029	666033.4	666033.4	97.646 %		12:27:36
3	Ag 328.068†	106198.7	106746.7	487.75 ug/L	487.75 ppb	12:27:36
3	As 188.979†	1203.1	1249.7	480.94 ug/L	480.94 ppb	12:27:56
3	B 249.677†	21672.4	22479.8	475.44 ug/L	475.44 ppb	12:27:36
3	Ba 233.527†	63803.4	64412.0	486.53 ug/L	486.53 ppb	12:27:36
3	Be 313.107†	1397640.8	1414522.9	483.43 ug/L	483.43 ppb	12:27:36
3	Cd 226.502†	44267.5	44876.9	468.00 ug/L	468.00 ppb	12:27:56
3	Co 228.616†	25261.5	25581.8	475.66 ug/L	475.66 ppb	12:27:56
3	Cr 267.716†	45187.0	45516.3	486.19 ug/L	486.19 ppb	12:27:36
3	Cu 324.752†	173822.8	168583.6	483.89 ug/L	483.89 ppb	12:27:36
3	Mn 257.610†	470073.7	473932.7	485.49 ug/L	485.49 ppb	12:27:36
3	Mo 202.031†	7049.4	7111.9	485.01 ug/L	485.01 ppb	12:27:56
3	Ni 231.604†	20897.7	21007.9	477.04 ug/L	477.04 ppb	12:27:56
3	P 214.914†	4865.0	4675.6	2282.5 ug/L	2282.5 ppb	12:27:56
3	Pb 220.353†	4307.7	4418.8	485.04 ug/L	485.04 ppb	12:27:56
3	S 181.975 Axial†	820.9	776.6	938.71 ug/L	938.71 ppb	12:27:56
3	Sb 206.836†	1573.3	1552.3	495.18 ug/L	495.18 ppb	12:27:56
3	Se 196.026†	848.0	885.4	497.04 ug/L	497.04 ppb	12:27:56
3	Si 251.611†	81471.3	81735.9	2426.0 ug/L	2426.0 ppb	12:27:36
3	Sn 189.927†	2938.1	2947.6	479.47 ug/L	479.47 ppb	12:27:56
3	Ti 334.940†	317471.3	322104.8	494.42 ug/L	494.42 ppb	12:27:36
3	Tl 190.801†	1626.6	1684.9	484.93 ug/L	484.93 ppb	12:27:56
3	U 409.014†	9959.0	14376.0	464.87 ug/L	464.87 ppb	12:27:36
3	V 292.402†	67118.9	69448.1	488.47 ug/L	488.47 ppb	12:27:36
3	Zn 213.857†	56751.5	56531.8	479.38 ug/L	479.38 ppb	12:27:36
3	SiO2†	81593.1	81815.9	5208.7 ug/L	5208.7 ppb	12:28:12

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	857938.1	99.211 %	0.2773			0.28%
Sc Radial	3741.0	94.5 %	0.32			0.34%
Y 371.029	667251.7	97.824 %	0.3964			0.41%
Y RADIAL	4220.1	92.99 %	0.529			0.57%
Ag 328.068†	106539.0	486.80 ug/L	0.907	486.80 ppb	0.907	0.19%
QC value within limits for Ag 328.068 Recovery = 97.36%						
Al 396.153Radial†	5756.6	5148.1 ug/L	39.24	5148.1 ppb	39.24	0.76%
QC value within limits for Al 396.153Radial Recovery = 102.96%						
As 188.979†	1241.9	477.95 ug/L	4.916	477.95 ppb	4.916	1.03%
QC value within limits for As 188.979 Recovery = 95.59%						
B 249.677†	22400.3	473.76 ug/L	1.557	473.76 ppb	1.557	0.33%
QC value within limits for B 249.677 Recovery = 94.75%						
Ba 233.527†	64294.0	485.64 ug/L	0.828	485.64 ppb	0.828	0.17%
QC value within limits for Ba 233.527 Recovery = 97.13%						
Be 313.107†	1410648.9	482.11 ug/L	1.173	482.11 ppb	1.173	0.24%
QC value within limits for Be 313.107 Recovery = 96.42%						
Ca 317.933Radial†	2598.6	5152.0 ug/L	15.35	5152.0 ppb	15.35	0.30%

QC value within limits for Ca 317.933 Radial Recovery = 103.04%

Cd 226.502†	44681.1	465.96 ug/L	1.787	465.96 ppb	1.787	0.38%
QC value within limits for Cd 226.502 Recovery = 93.19%						
Co 228.616†	25453.8	473.28 ug/L	2.068	473.28 ppb	2.068	0.44%
QC value within limits for Co 228.616 Recovery = 94.66%						
Cr 267.716†	45360.2	484.52 ug/L	1.446	484.52 ppb	1.446	0.30%
QC value within limits for Cr 267.716 Recovery = 96.90%						
Cu 324.752†	168347.8	483.21 ug/L	0.803	483.21 ppb	0.803	0.17%
QC value within limits for Cu 324.752 Recovery = 96.64%						
Fe 238.204 Radial†	431.7	5156.3 ug/L	26.02	5156.3 ppb	26.02	0.50%
QC value within limits for Fe 238.204 Radial Recovery = 103.13%						
K 766.490 Radial†	29241.7	5091.7 ug/L	53.60	5091.7 ppb	53.60	1.05%
QC value within limits for K 766.490 Radial Recovery = 101.83%						
Mg 279.077 IEC†	119.2	5188.4 ug/L	244.75	5188.4 ppb	244.75	4.72%
QC value within limits for Mg 279.077 IEC Recovery = 103.77%						
Mn 257.610†	472525.9	484.06 ug/L	1.422	484.06 ppb	1.422	0.29%
QC value within limits for Mn 257.610 Recovery = 96.81%						
Mo 202.031†	7081.5	482.93 ug/L	1.859	482.93 ppb	1.859	0.38%
QC value within limits for Mo 202.031 Recovery = 96.59%						
Na 589.592 Radial†	35875.7	10287 ug/L	112.4	10287 ppb	112.4	1.09%
QC value within limits for Na 589.592 Radial Recovery = 102.87%						
Ni 231.604†	20915.9	474.95 ug/L	1.834	474.95 ppb	1.834	0.39%
QC value within limits for Ni 231.604 Recovery = 94.99%						
P 214.914†	4639.3	2264.1 ug/L	16.53	2264.1 ppb	16.53	0.73%
QC value within limits for P 214.914 Recovery = 90.57%						
Pb 220.353†	4390.4	481.94 ug/L	2.686	481.94 ppb	2.686	0.56%
QC value within limits for Pb 220.353 Recovery = 96.39%						
S 181.975 Axial†	776.5	938.58 ug/L	5.610	938.58 ppb	5.610	0.60%
QC value within limits for S 181.975 Axial Recovery = 93.86%						
Sb 206.836†	1547.1	493.53 ug/L	1.858	493.53 ppb	1.858	0.38%
QC value within limits for Sb 206.836 Recovery = 98.71%						
Se 196.026†	876.7	492.31 ug/L	4.746	492.31 ppb	4.746	0.96%
QC value within limits for Se 196.026 Recovery = 98.46%						
Si 251.611†	81669.4	2424.0 ug/L	2.87	2424.0 ppb	2.87	0.12%
QC value within limits for Si 251.611 Recovery = 96.96%						
Sn 189.927†	2946.7	479.32 ug/L	0.213	479.32 ppb	0.213	0.04%
QC value within limits for Sn 189.927 Recovery = 95.86%						
Sr 421.552†	74232.7	501.44 ug/L	4.626	501.44 ppb	4.626	0.92%
QC value within limits for Sr 421.552 Recovery = 100.29%						
Ti 334.940†	321658.4	493.74 ug/L	0.624	493.74 ppb	0.624	0.13%
QC value within limits for Ti 334.940 Recovery = 98.75%						
Tl 190.801†	1670.0	480.66 ug/L	3.714	480.66 ppb	3.714	0.77%
QC value within limits for Tl 190.801 Recovery = 96.13%						
U 409.014†	14519.1	469.52 ug/L	4.028	469.52 ppb	4.028	0.86%
QC value within limits for U 409.014 Recovery = 93.90%						
V 292.402†	69392.7	488.07 ug/L	0.378	488.07 ppb	0.378	0.08%
QC value within limits for V 292.402 Recovery = 97.61%						
Zn 213.857†	56327.0	477.64 ug/L	1.559	477.64 ppb	1.559	0.33%
QC value within limits for Zn 213.857 Recovery = 95.53%						
SiO2†	81176.9	5167.9 ug/L	60.97	5167.9 ppb	60.97	1.18%
QC value within limits for SiO2 Recovery = 96.64%						

All analyte(s) passed QC.

Sequence No.: 15
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 2/3/2010 12:30:23
 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	3798.4	3798.4	95.9 %		12:32:36
1	Y RADIAL	4318.1	4318.1	95.14 %		12:32:16
1	Al 396.153Radial†	-194.2	-6.7	-6.0455 ug/L	-6.0455 ppb	12:32:16
1	Ca 317.933Radial†	19.6	4.2	8.3314 ug/L	8.3314 ppb	12:32:36
1	Fe 238.204 Radial†	12.4	1.1	12.649 ug/L	12.649 ppb	12:32:36
1	K 766.490 Radial†	3166.9	270.9	47.239 ug/L	47.239 ppb	12:32:16
1	Mg 279.077 IEC†	3.7	0.6	25.122 ug/L	25.122 ppb	12:32:36
1	Na 589.592 Radial†	-1595.4	-78.1	-22.407 ug/L	-22.407 ppb	12:32:16
1	Sr 421.552†	5.8	5.6	0.0380 ug/L	0.0380 ppb	12:32:16
1	Sc 361.383	845873.2	845873.2	97.816 %		12:33:32
1	Y 371.029	668680.9	668680.9	98.034 %		12:33:32
1	Ag 328.068†	443.0	17.7	0.0845 ug/L	0.0845 ppb	12:33:32
1	As 188.979†	-38.4	-3.8	-1.4562 ug/L	-1.4562 ppb	12:33:52
1	B 249.677†	-408.9	188.7	4.0086 ug/L	4.0086 ppb	12:33:32
1	Ba 233.527†	-12.3	5.5	0.0413 ug/L	0.0413 ppb	12:33:52
1	Be 313.107†	-3791.6	67.8	0.0229 ug/L	0.0229 ppb	12:33:32
1	Cd 226.502†	-184.4	11.1	0.1147 ug/L	0.1147 ppb	12:33:52
1	Co 228.616†	-92.3	-7.9	-0.1451 ug/L	-0.1451 ppb	12:33:52
1	Cr 267.716†	97.3	10.4	0.1112 ug/L	0.1112 ppb	12:33:32
1	Cu 324.752†	6709.5	11.0	0.0328 ug/L	0.0328 ppb	12:33:32
1	Mn 257.610†	512.6	31.6	0.0326 ug/L	0.0326 ppb	12:33:52
1	Mo 202.031†	16.8	14.3	0.9759 ug/L	0.9759 ppb	12:33:52
1	Ni 231.604†	123.9	43.5	0.9884 ug/L	0.9884 ppb	12:33:52
1	P 214.914†	220.9	-8.6	-4.3893 ug/L	-4.3893 ppb	12:33:52
1	Pb 220.353†	-81.1	-11.8	-1.2867 ug/L	-1.2867 ppb	12:33:52
1	S 181.975 Axial†	58.9	8.3	10.033 ug/L	10.033 ppb	12:33:52
1	Sb 206.836†	41.3	6.6	2.0563 ug/L	2.0563 ppb	12:33:52
1	Se 196.026†	-31.3	-2.5	-1.3200 ug/L	-1.3200 ppb	12:33:52
1	Si 251.611†	534.5	56.8	1.6794 ug/L	1.6794 ppb	12:33:52
1	Sn 189.927†	14.2	-3.1	-0.4994 ug/L	-0.4994 ppb	12:33:52
1	Ti 334.940†	-1731.7	-75.8	-0.1169 ug/L	-0.1169 ppb	12:33:32
1	Tl 190.801†	-31.6	10.9	3.1260 ug/L	3.1260 ppb	12:33:52
1	U 409.014†	-4262.3	-32.7	-1.0627 ug/L	-1.0627 ppb	12:33:32
1	V 292.402†	-1704.5	-34.7	-0.2304 ug/L	-0.2304 ppb	12:33:32
1	Zn 213.857†	763.0	35.0	0.2918 ug/L	0.2918 ppb	12:33:52
1	SiO2†	526.3	5.6	0.3293 ug/L	0.3293 ppb	12:34:49
2	Sc Radial	3808.1	3808.1	96.2 %		12:33:01
2	Y RADIAL	4247.3	4247.3	93.59 %		12:32:41
2	Al 396.153Radial†	-217.8	-30.7	-27.603 ug/L	-27.603 ppb	12:32:41
2	Ca 317.933Radial†	20.2	4.7	9.2828 ug/L	9.2828 ppb	12:33:01
2	Fe 238.204 Radial†	13.8	2.5	29.769 ug/L	29.769 ppb	12:33:01
2	K 766.490 Radial†	3115.8	209.3	36.493 ug/L	36.493 ppb	12:32:41
2	Mg 279.077 IEC†	2.3	-0.9	-40.754 ug/L	-40.754 ppb	12:33:01
2	Na 589.592 Radial†	-1588.0	-66.1	-18.965 ug/L	-18.965 ppb	12:32:41
2	Sr 421.552†	57.6	59.5	0.4016 ug/L	0.4016 ppb	12:32:41
2	Sc 361.383	842255.2	842255.2	97.397 %		12:33:58
2	Y 371.029	666178.7	666178.7	97.667 %		12:33:58
2	Ag 328.068†	535.0	114.2	0.5334 ug/L	0.5334 ppb	12:33:58
2	As 188.979†	-39.6	-5.2	-1.9836 ug/L	-1.9836 ppb	12:34:18
2	B 249.677†	-398.2	198.0	4.2028 ug/L	4.2028 ppb	12:33:58
2	Ba 233.527†	-8.5	9.3	0.0709 ug/L	0.0709 ppb	12:34:18
2	Be 313.107†	-3795.0	47.7	0.0160 ug/L	0.0160 ppb	12:33:58
2	Cd 226.502†	-190.0	4.5	0.0428 ug/L	0.0428 ppb	12:34:18
2	Co 228.616†	-104.7	-21.1	-0.3923 ug/L	-0.3923 ppb	12:34:18
2	Cr 267.716†	87.9	1.2	0.0161 ug/L	0.0161 ppb	12:33:58
2	Cu 324.752†	6791.7	124.9	0.3640 ug/L	0.3640 ppb	12:33:58
2	Mn 257.610†	500.7	21.6	0.0267 ug/L	0.0267 ppb	12:34:18
2	Mo 202.031†	9.4	6.8	0.4661 ug/L	0.4661 ppb	12:34:18
2	Ni 231.604†	97.4	16.8	0.3814 ug/L	0.3814 ppb	12:34:18

2	P 214.914†	232.0	3.7	1.8145 ug/L	1.8145 ppb	12:34:18
2	Pb 220.353†	-86.4	-17.6	-1.9281 ug/L	-1.9281 ppb	12:34:18
2	S 181.975 Axial†	49.9	-0.7	-0.7821 ug/L	-0.7821 ppb	12:34:18
2	Sb 206.836†	50.8	16.6	5.1432 ug/L	5.1432 ppb	12:34:18
2	Se 196.026†	-37.8	-9.3	-4.9191 ug/L	-4.9191 ppb	12:34:18
2	Si 251.611†	520.0	44.3	1.3134 ug/L	1.3134 ppb	12:34:18
2	Sn 189.927†	24.7	7.7	1.2495 ug/L	1.2495 ppb	12:34:18
2	Ti 334.940†	-1722.5	-73.9	-0.1058 ug/L	-0.1058 ppb	12:33:58
2	Tl 190.801†	-38.2	4.0	1.1331 ug/L	1.1331 ppb	12:34:18
2	U 409.014†	-4422.2	-215.6	-6.9990 ug/L	-6.9990 ppb	12:33:58
2	V 292.402†	-1679.1	-16.1	-0.1237 ug/L	-0.1237 ppb	12:33:58
2	Zn 213.857†	781.6	57.4	0.4852 ug/L	0.4852 ppb	12:34:18
2	SiO2†	496.3	-22.9	-1.4723 ug/L	-1.4723 ppb	12:34:54
3	Sc Radial	3803.6	3803.6	96.1 %		12:33:26
3	Y RADIAL	4310.8	4310.8	94.98 %		12:33:06
3	Al 396.153Radial†	-178.0	10.5	9.4156 ug/L	9.4156 ppb	12:33:06
3	Ca 317.933Radial†	15.6	-0.0	-0.0464 ug/L	-0.0464 ppb	12:33:26
3	Fe 238.204 Radial†	11.1	-0.3	-3.6958 ug/L	-3.6958 ppb	12:33:26
3	K 766.490 Radial†	3132.6	230.8	40.229 ug/L	40.229 ppb	12:33:06
3	Mg 279.077 IEC†	5.4	2.3	100.41 ug/L	100.41 ppb	12:33:26
3	Na 589.592 Radial†	-1516.4	6.4	1.8332 ug/L	1.8332 ppb	12:33:06
3	Sr 421.552†	-5.8	-6.5	-0.0438 ug/L	-0.0438 ppb	12:33:06
3	Sc 361.383	854501.6	854501.6	98.814 %		12:34:23
3	Y 371.029	675282.5	675282.5	99.002 %		12:34:23
3	Ag 328.068†	414.8	-15.3	-0.0738 ug/L	-0.0738 ppb	12:34:23
3	As 188.979†	-29.1	6.0	2.2887 ug/L	2.2887 ppb	12:34:43
3	B 249.677†	-370.4	231.9	4.9279 ug/L	4.9279 ppb	12:34:23
3	Ba 233.527†	-22.9	-5.2	-0.0396 ug/L	-0.0396 ppb	12:34:43
3	Be 313.107†	-3817.3	81.0	0.0273 ug/L	0.0273 ppb	12:34:23
3	Cd 226.502†	-209.5	-12.4	-0.1278 ug/L	-0.1278 ppb	12:34:43
3	Co 228.616†	-78.7	6.8	0.1279 ug/L	0.1279 ppb	12:34:43
3	Cr 267.716†	138.0	50.6	0.5384 ug/L	0.5384 ppb	12:34:23
3	Cu 324.752†	6955.9	191.1	0.5471 ug/L	0.5471 ppb	12:34:23
3	Mn 257.610†	497.8	11.3	0.0071 ug/L	0.0071 ppb	12:34:43
3	Mo 202.031†	12.3	9.6	0.6571 ug/L	0.6571 ppb	12:34:43
3	Ni 231.604†	97.0	15.0	0.3399 ug/L	0.3399 ppb	12:34:43
3	P 214.914†	217.7	-14.2	-7.2967 ug/L	-7.2967 ppb	12:34:43
3	Pb 220.353†	-63.7	6.7	0.7417 ug/L	0.7417 ppb	12:34:43
3	S 181.975 Axial†	50.3	-1.0	-1.1773 ug/L	-1.1773 ppb	12:34:43
3	Sb 206.836†	59.6	24.7	7.6371 ug/L	7.6371 ppb	12:34:43
3	Se 196.026†	-34.9	-5.8	-3.1654 ug/L	-3.1654 ppb	12:34:43
3	Si 251.611†	523.8	40.5	1.1983 ug/L	1.1983 ppb	12:34:43
3	Sn 189.927†	21.8	4.4	0.7191 ug/L	0.7191 ppb	12:34:43
3	Ti 334.940†	-1773.6	-100.3	-0.1634 ug/L	-0.1634 ppb	12:34:23
3	Tl 190.801†	-32.5	10.3	2.9426 ug/L	2.9426 ppb	12:34:43
3	U 409.014†	-4205.1	69.1	2.2428 ug/L	2.2428 ppb	12:34:23
3	V 292.402†	-1729.1	-42.0	-0.2755 ug/L	-0.2755 ppb	12:34:23
3	Zn 213.857†	757.4	21.4	0.1807 ug/L	0.1807 ppb	12:34:43
3	SiO2†	545.5	19.6	1.2330 ug/L	1.2330 ppb	12:34:59

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	847543.3	98.009 %		0.7276			0.74%
Sc Radial	3803.4	96.0 %		0.12			0.13%
Y 371.029	670047.4	98.234 %		0.6895			0.70%
Y RADIAL	4292.1	94.57 %		0.858			0.91%
Ag 328.068†	38.9	0.1814 ug/L		0.31499	0.1814 ppb	0.31499	173.67%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-9.0	-8.0778 ug/L		18.59300	-8.0778 ppb	18.59300	230.17%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-1.0	-0.3837 ug/L		2.32931	-0.3837 ppb	2.32931	607.07%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	206.2	4.3798 ug/L		0.48453	4.3798 ppb	0.48453	11.06%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	3.2	0.0242 ug/L		0.05719	0.0242 ppb	0.05719	236.21%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	65.5	0.0220 ug/L		0.00566	0.0220 ppb	0.00566	25.70%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	3.0	5.8559 ug/L		5.13367	5.8559 ppb	5.13367	87.67%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated

Cd 226.502†	1.1	0.0099 ug/L	0.12455	0.0099 ppb	0.12455 >999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-7.4	-0.1365 ug/L	0.26019	-0.1365 ppb	0.26019 190.66%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	20.7	0.2219 ug/L	0.27817	0.2219 ppb	0.27817 125.35%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	109.0	0.3146 ug/L	0.26071	0.3146 ppb	0.26071 82.86%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	1.1	12.907 ug/L	16.7341	12.907 ppb	16.7341 129.65%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	237.0	41.320 ug/L	5.4553	41.320 ppb	5.4553 13.20%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	0.6	28.260 ug/L	70.6362	28.260 ppb	70.6362 249.95%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	21.5	0.0221 ug/L	0.01335	0.0221 ppb	0.01335 60.29%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	10.3	0.6997 ug/L	0.25754	0.6997 ppb	0.25754 36.81%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-46.0	-13.179 ug/L	13.1148	-13.179 ppb	13.1148 99.51%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	25.1	0.5699 ug/L	0.36303	0.5699 ppb	0.36303 63.70%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-6.3	-3.2905 ug/L	4.65391	-3.2905 ppb	4.65391 141.43%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-7.5	-0.8244 ug/L	1.39366	-0.8244 ppb	1.39366 169.06%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	2.2	2.6913 ug/L	6.36147	2.6913 ppb	6.36147 236.37%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	16.0	4.9455 ug/L	2.79564	4.9455 ppb	2.79564 56.53%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-5.9	-3.1348 ug/L	1.79975	-3.1348 ppb	1.79975 57.41%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	47.2	1.3970 ug/L	0.25123	1.3970 ppb	0.25123 17.98%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	3.0	0.4897 ug/L	0.89670	0.4897 ppb	0.89670 183.09%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	19.5	0.1319 ug/L	0.23713	0.1319 ppb	0.23713 179.76%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-83.3	-0.1287 ug/L	0.03055	-0.1287 ppb	0.03055 23.74%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	8.4	2.4006 ug/L	1.10150	2.4006 ppb	1.10150 45.88%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-59.7	-1.9397 ug/L	4.68289	-1.9397 ppb	4.68289 241.43%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-30.9	-0.2099 ug/L	0.07798	-0.2099 ppb	0.07798 37.15%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	37.9	0.3193 ug/L	0.15410	0.3193 ppb	0.15410 48.27%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	0.8	0.0300 ug/L	1.37726	0.0300 ppb	1.37726 >999.9%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 22

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/3/2010 13:18:07

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	3695.4	3695.4	93.3 %		13:20:19
1	Y RADIAL	4102.7	4102.7	90.40 %		13:19:59
1	Al 396.153Radial†	5102.9	5664.1	5064.3 ug/L	5064.3 ppb	13:19:59
1	Ca 317.933Radial†	2422.0	2579.2	5113.5 ug/L	5113.5 ppb	13:20:19
1	Fe 238.204 Radial†	401.0	417.8	4991.1 ug/L	4991.1 ppb	13:20:19
1	K 766.490 Radial†	29651.0	28743.1	5005.0 ug/L	5005.0 ppb	13:19:59
1	Mg 279.077 IEC†	113.9	118.7	5167.1 ug/L	5167.1 ppb	13:20:19
1	Na 589.592 Radial†	29645.0	33352.5	9563.3 ug/L	9563.3 ppb	13:19:59
1	Sr 421.552†	66144.1	70879.2	478.79 ug/L	478.79 ppb	13:19:59
1	Sc 361.383	833795.4	833795.4	96.419 %		13:21:18
1	Y 371.029	648713.3	648713.3	95.106 %		13:21:18
1	Ag 328.068†	103771.7	107190.5	489.71 ug/L	489.71 ppb	13:21:18
1	As 188.979†	1189.3	1268.9	488.21 ug/L	488.21 ppb	13:21:38
1	B 249.677†	21012.1	22399.3	473.73 ug/L	473.73 ppb	13:21:18
1	Ba 233.527†	62478.1	64816.4	489.58 ug/L	489.58 ppb	13:21:18
1	Be 313.107†	1363191.1	1417762.1	484.54 ug/L	484.54 ppb	13:21:18
1	Cd 226.502†	44779.8	46642.5	486.44 ug/L	486.44 ppb	13:21:18
1	Co 228.616†	25172.7	26194.0	487.07 ug/L	487.07 ppb	13:21:38
1	Cr 267.716†	44181.2	45733.0	488.50 ug/L	488.50 ppb	13:21:18
1	Cu 324.752†	169295.3	168734.4	484.31 ug/L	484.31 ppb	13:21:18
1	Mn 257.610†	459637.3	476215.1	487.82 ug/L	487.82 ppb	13:21:18
1	Mo 202.031†	7021.7	7279.6	496.42 ug/L	496.42 ppb	13:21:38
1	Ni 231.604†	20817.9	21507.9	488.40 ug/L	488.40 ppb	13:21:38
1	P 214.914†	4853.0	4798.8	2345.3 ug/L	2345.3 ppb	13:21:38
1	Pb 220.353†	4274.5	4504.4	494.44 ug/L	494.44 ppb	13:21:38
1	S 181.975 Axial†	820.3	798.9	965.71 ug/L	965.71 ppb	13:21:38
1	Sb 206.836†	1554.6	1576.8	503.17 ug/L	503.17 ppb	13:21:38
1	Se 196.026†	829.5	889.8	498.93 ug/L	498.93 ppb	13:21:38
1	Si 251.611†	79634.5	82102.5	2436.7 ug/L	2436.7 ppb	13:21:18
1	Sn 189.927†	2940.4	3031.9	493.15 ug/L	493.15 ppb	13:21:38
1	Ti 334.940†	310359.8	323580.7	496.69 ug/L	496.69 ppb	13:21:18
1	Tl 190.801†	1620.0	1723.3	495.89 ug/L	495.89 ppb	13:21:38
1	U 409.014†	9853.1	14543.8	470.34 ug/L	470.34 ppb	13:21:18
1	V 292.402†	65566.2	69709.0	490.48 ug/L	490.48 ppb	13:21:18
1	Zn 213.857†	55501.4	56817.6	481.77 ug/L	481.77 ppb	13:21:18
1	SiO2†	80255.2	82703.4	5265.0 ug/L	5265.0 ppb	13:22:38
2	Sc Radial	3673.9	3673.9	92.8 %		13:20:44
2	Y RADIAL	4152.2	4152.2	91.49 %		13:20:24
2	Al 396.153Radial†	5182.2	5781.5	5169.9 ug/L	5169.9 ppb	13:20:24
2	Ca 317.933Radial†	2424.7	2597.3	5149.5 ug/L	5149.5 ppb	13:20:44
2	Fe 238.204 Radial†	408.4	428.4	5116.8 ug/L	5116.8 ppb	13:20:44
2	K 766.490 Radial†	30046.3	29355.3	5111.7 ug/L	5111.7 ppb	13:20:24
2	Mg 279.077 IEC†	110.9	116.3	5059.2 ug/L	5059.2 ppb	13:20:44
2	Na 589.592 Radial†	30175.9	34110.8	9780.7 ug/L	9780.7 ppb	13:20:24
2	Sr 421.552†	67170.2	72400.2	489.06 ug/L	489.06 ppb	13:20:24
2	Sc 361.383	835592.3	835592.3	96.627 %		13:21:45
2	Y 371.029	651285.4	651285.4	95.484 %		13:21:45
2	Ag 328.068†	103908.3	107100.4	489.36 ug/L	489.36 ppb	13:21:45
2	As 188.979†	1187.8	1264.7	486.63 ug/L	486.63 ppb	13:22:06
2	B 249.677†	21029.5	22370.4	473.10 ug/L	473.10 ppb	13:21:45
2	Ba 233.527†	62414.3	64611.1	488.04 ug/L	488.04 ppb	13:21:45
2	Be 313.107†	1364323.7	1415893.8	483.90 ug/L	483.90 ppb	13:21:45
2	Cd 226.502†	44582.6	46338.5	483.26 ug/L	483.26 ppb	13:21:45
2	Co 228.616†	25071.7	26033.3	484.08 ug/L	484.08 ppb	13:22:06
2	Cr 267.716†	44186.0	45639.4	487.51 ug/L	487.51 ppb	13:21:45
2	Cu 324.752†	169306.9	168368.8	483.27 ug/L	483.27 ppb	13:21:45
2	Mn 257.610†	458983.9	474513.8	486.09 ug/L	486.09 ppb	13:21:45
2	Mo 202.031†	7022.9	7265.3	495.45 ug/L	495.45 ppb	13:22:06
2	Ni 231.604†	20741.6	21382.4	485.55 ug/L	485.55 ppb	13:22:06

2	P 214.914†	4805.9	4739.2	2315.1 ug/L	2315.1 ppb	13:22:06
2	Pb 220.353†	4278.2	4498.8	493.83 ug/L	493.83 ppb	13:22:06
2	S 181.975 Axial†	824.3	801.1	968.46 ug/L	968.46 ppb	13:22:06
2	Sb 206.836†	1568.9	1588.2	506.64 ug/L	506.64 ppb	13:22:06
2	Se 196.026†	830.1	888.6	498.68 ug/L	498.68 ppb	13:22:06
2	Si 251.611†	79576.8	81865.2	2429.7 ug/L	2429.7 ppb	13:21:45
2	Sn 189.927†	2938.8	3023.8	491.83 ug/L	491.83 ppb	13:22:06
2	Ti 334.940†	310526.3	323060.8	495.91 ug/L	495.91 ppb	13:21:45
2	Tl 190.801†	1609.8	1709.2	491.85 ug/L	491.85 ppb	13:22:06
2	U 409.014†	9743.0	14407.9	465.91 ug/L	465.91 ppb	13:21:45
2	V 292.402†	65942.9	69952.7	492.13 ug/L	492.13 ppb	13:21:45
2	Zn 213.857†	55303.8	56489.3	478.97 ug/L	478.97 ppb	13:21:45
2	SiO2†	80650.7	82933.6	5279.7 ug/L	5279.7 ppb	13:22:44
3	Sc Radial	3634.5	3634.5	91.8 %		13:21:09
3	Y RADIAL	4092.7	4092.7	90.18 %		13:20:49
3	Al 396.153Radial†	5132.2	5787.6	5175.4 ug/L	5175.4 ppb	13:20:49
3	Ca 317.933Radial†	2418.7	2619.0	5192.5 ug/L	5192.5 ppb	13:21:09
3	Fe 238.204 Radial†	404.9	429.4	5128.6 ug/L	5128.6 ppb	13:21:09
3	K 766.490 Radial†	29662.4	29288.0	5099.9 ug/L	5099.9 ppb	13:20:49
3	Mg 279.077 IEC†	115.1	122.1	5315.6 ug/L	5315.6 ppb	13:21:09
3	Na 589.592 Radial†	29934.3	34200.1	9806.3 ug/L	9806.3 ppb	13:20:49
3	Sr 421.552†	66543.3	72502.0	489.75 ug/L	489.75 ppb	13:20:49
3	Sc 361.383	836391.5	836391.5	96.719 %		13:22:13
3	Y 371.029	652082.4	652082.4	95.600 %		13:22:13
3	Ag 328.068†	104421.3	107528.1	491.30 ug/L	491.30 ppb	13:22:13
3	As 188.979†	1195.2	1271.2	489.15 ug/L	489.15 ppb	13:22:33
3	B 249.677†	21126.1	22449.5	474.78 ug/L	474.78 ppb	13:22:13
3	Ba 233.527†	62693.2	64837.8	489.75 ug/L	489.75 ppb	13:22:13
3	Be 313.107†	1373403.2	1423932.1	486.64 ug/L	486.64 ppb	13:22:13
3	Cd 226.502†	44885.6	46607.8	486.06 ug/L	486.06 ppb	13:22:13
3	Co 228.616†	25079.5	26016.6	483.76 ug/L	483.76 ppb	13:22:33
3	Cr 267.716†	44462.2	45881.3	490.09 ug/L	490.09 ppb	13:22:13
3	Cu 324.752†	169800.9	168712.1	484.26 ug/L	484.26 ppb	13:22:13
3	Mn 257.610†	461693.2	476861.0	488.49 ug/L	488.49 ppb	13:22:13
3	Mo 202.031†	6995.3	7229.7	493.03 ug/L	493.03 ppb	13:22:33
3	Ni 231.604†	20751.9	21372.6	485.32 ug/L	485.32 ppb	13:22:33
3	P 214.914†	4793.8	4722.0	2306.1 ug/L	2306.1 ppb	13:22:33
3	Pb 220.353†	4290.9	4507.6	494.79 ug/L	494.79 ppb	13:22:33
3	S 181.975 Axial†	829.0	805.2	973.37 ug/L	973.37 ppb	13:22:33
3	Sb 206.836†	1578.3	1596.3	509.05 ug/L	509.05 ppb	13:22:33
3	Se 196.026†	839.0	897.0	503.22 ug/L	503.22 ppb	13:22:33
3	Si 251.611†	80088.1	82315.1	2443.1 ug/L	2443.1 ppb	13:22:13
3	Sn 189.927†	2926.2	3007.9	489.25 ug/L	489.25 ppb	13:22:33
3	Ti 334.940†	311598.8	323862.6	497.12 ug/L	497.12 ppb	13:22:13
3	Tl 190.801†	1616.6	1714.6	493.42 ug/L	493.42 ppb	13:22:33
3	U 409.014†	9886.8	14546.9	470.42 ug/L	470.42 ppb	13:22:13
3	V 292.402†	66048.6	69996.7	492.41 ug/L	492.41 ppb	13:22:13
3	Zn 213.857†	55651.0	56793.6	481.57 ug/L	481.57 ppb	13:22:13
3	SiO2†	81363.8	83591.2	5321.7 ug/L	5321.7 ppb	13:22:49

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	835259.7	96.588 %		0.1538			0.16%
Sc Radial	3667.9	92.6 %		0.78			0.84%
Y 371.029	650693.7	95.397 %		0.2581			0.27%
Y RADIAL	4115.9	90.69 %		0.703			0.77%
Ag 328.068†	107273.0	490.12 ug/L		1.034	490.12 ppb	1.034	0.21%
QC value within limits for Ag 328.068 Recovery = 98.02%							
Al 396.153Radial†	5744.4	5136.5 ug/L		62.62	5136.5 ppb	62.62	1.22%
QC value within limits for Al 396.153Radial Recovery = 102.73%							
As 188.979†	1268.3	488.00 ug/L		1.272	488.00 ppb	1.272	0.26%
QC value within limits for As 188.979 Recovery = 97.60%							
B 249.677†	22406.4	473.87 ug/L		0.849	473.87 ppb	0.849	0.18%
QC value within limits for B 249.677 Recovery = 94.77%							
Ba 233.527†	64755.1	489.12 ug/L		0.942	489.12 ppb	0.942	0.19%
QC value within limits for Ba 233.527 Recovery = 97.82%							
Be 313.107†	1419196.0	485.03 ug/L		1.436	485.03 ppb	1.436	0.30%
QC value within limits for Be 313.107 Recovery = 97.01%							
Ca 317.933Radial†	2598.5	5151.8 ug/L		39.55	5151.8 ppb	39.55	0.77%

QC value within limits for Ca 317.933 Radial Recovery = 103.04%

Cd 226.502†	46529.6	485.25 ug/L	1.741	485.25 ppb	1.741	0.36%
QC value within limits for Cd 226.502 Recovery = 97.05%						
Co 228.616†	26081.3	484.97 ug/L	1.826	484.97 ppb	1.826	0.38%
QC value within limits for Co 228.616 Recovery = 96.99%						
Cr 267.716†	45751.2	488.70 ug/L	1.301	488.70 ppb	1.301	0.27%
QC value within limits for Cr 267.716 Recovery = 97.74%						
Cu 324.752†	168605.1	483.95 ug/L	0.585	483.95 ppb	0.585	0.12%
QC value within limits for Cu 324.752 Recovery = 96.79%						
Fe 238.204 Radial†	425.2	5078.8 ug/L	76.18	5078.8 ppb	76.18	1.50%
QC value within limits for Fe 238.204 Radial Recovery = 101.58%						
K 766.490 Radial†	29128.8	5072.2 ug/L	58.47	5072.2 ppb	58.47	1.15%
QC value within limits for K 766.490 Radial Recovery = 101.44%						
Mg 279.077 IEC†	119.0	5180.6 ug/L	128.74	5180.6 ppb	128.74	2.49%
QC value within limits for Mg 279.077 IEC Recovery = 103.61%						
Mn 257.610†	475863.3	487.47 ug/L	1.235	487.47 ppb	1.235	0.25%
QC value within limits for Mn 257.610 Recovery = 97.49%						
Mo 202.031†	7258.2	494.97 ug/L	1.745	494.97 ppb	1.745	0.35%
QC value within limits for Mo 202.031 Recovery = 98.99%						
Na 589.592 Radial†	33887.8	9716.8 ug/L	133.54	9716.8 ppb	133.54	1.37%
QC value within limits for Na 589.592 Radial Recovery = 97.17%						
Ni 231.604†	21421.0	486.42 ug/L	1.713	486.42 ppb	1.713	0.35%
QC value within limits for Ni 231.604 Recovery = 97.28%						
P 214.914†	4753.3	2322.1 ug/L	20.51	2322.1 ppb	20.51	0.88%
QC value within limits for P 214.914 Recovery = 92.89%						
Pb 220.353†	4503.6	494.36 ug/L	0.485	494.36 ppb	0.485	0.10%
QC value within limits for Pb 220.353 Recovery = 98.87%						
S 181.975 Axial†	801.7	969.18 ug/L	3.881	969.18 ppb	3.881	0.40%
QC value within limits for S 181.975 Axial Recovery = 96.92%						
Sb 206.836†	1587.1	506.29 ug/L	2.952	506.29 ppb	2.952	0.58%
QC value within limits for Sb 206.836 Recovery = 101.26%						
Se 196.026†	891.8	500.27 ug/L	2.552	500.27 ppb	2.552	0.51%
QC value within limits for Se 196.026 Recovery = 100.05%						
Si 251.611†	82094.3	2436.5 ug/L	6.71	2436.5 ppb	6.71	0.28%
QC value within limits for Si 251.611 Recovery = 97.46%						
Sn 189.927†	3021.2	491.41 ug/L	1.981	491.41 ppb	1.981	0.40%
QC value within limits for Sn 189.927 Recovery = 98.28%						
Sr 421.552†	71927.1	485.86 ug/L	6.140	485.86 ppb	6.140	1.26%
QC value within limits for Sr 421.552 Recovery = 97.17%						
Ti 334.940†	323501.4	496.57 ug/L	0.615	496.57 ppb	0.615	0.12%
QC value within limits for Ti 334.940 Recovery = 99.31%						
Tl 190.801†	1715.7	493.72 ug/L	2.036	493.72 ppb	2.036	0.41%
QC value within limits for Tl 190.801 Recovery = 98.74%						
U 409.014†	14499.5	468.89 ug/L	2.577	468.89 ppb	2.577	0.55%
QC value within limits for U 409.014 Recovery = 93.78%						
V 292.402†	69886.2	491.67 ug/L	1.043	491.67 ppb	1.043	0.21%
QC value within limits for V 292.402 Recovery = 98.33%						
Zn 213.857†	56700.1	480.77 ug/L	1.563	480.77 ppb	1.563	0.33%
QC value within limits for Zn 213.857 Recovery = 96.15%						
SiO2†	83076.1	5288.8 ug/L	29.45	5288.8 ppb	29.45	0.56%
QC value within limits for SiO2 Recovery = 98.90%						

All analyte(s) passed QC.

Sequence No.: 23
 Sample ID: PQL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 11
 Date Collected: 2/3/2010 13:24:58
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3728.3	3728.3	94.1 %		13:27:12
1	Y RADIAL	4158.1	4158.1	91.62 %		13:26:52
1	Al 396.153Radial†	45.2	243.8	218.47 ug/L	218.47 ppb	13:26:52
1	Ca 317.933Radial†	118.8	109.9	217.99 ug/L	217.99 ppb	13:27:12
1	Fe 238.204 Radial†	21.0	10.5	125.58 ug/L	125.58 ppb	13:27:12
1	K 766.490 Radial†	3968.2	1184.1	206.24 ug/L	206.24 ppb	13:26:52
1	Mg 279.077 IEC†	6.8	3.9	170.55 ug/L	170.55 ppb	13:27:12
1	Na 589.592 Radial†	-511.6	1041.8	298.71 ug/L	298.71 ppb	13:26:52
1	Sr 421.552†	733.2	778.3	5.2561 ug/L	5.2561 ppb	13:26:52
1	Sc 361.383	832129.5	832129.5	96.226 %		13:28:09
1	Y 371.029	656768.7	656768.7	96.287 %		13:28:09
1	Ag 328.068†	1546.0	1171.5	5.3361 ug/L	5.3361 ppb	13:28:09
1	As 188.979†	37.9	74.9	28.598 ug/L	28.598 ppb	13:28:29
1	B 249.677†	1821.7	2499.9	53.082 ug/L	53.082 ppb	13:28:09
1	Ba 233.527†	653.1	696.7	5.2643 ug/L	5.2643 ppb	13:28:29
1	Be 313.107†	10470.3	14825.0	5.0667 ug/L	5.0667 ppb	13:28:09
1	Cd 226.502†	268.6	478.7	4.9942 ug/L	4.9942 ppb	13:28:29
1	Co 228.616†	171.5	264.6	4.9348 ug/L	4.9348 ppb	13:28:29
1	Cr 267.716†	499.8	430.4	4.5811 ug/L	4.5811 ppb	13:28:09
1	Cu 324.752†	10178.9	3729.8	10.685 ug/L	10.685 ppb	13:28:09
1	Mn 257.610†	10549.1	10470.4	10.725 ug/L	10.725 ppb	13:28:09
1	Mo 202.031†	171.3	175.2	11.950 ug/L	11.950 ppb	13:28:29
1	Ni 231.604†	312.0	241.0	5.4733 ug/L	5.4733 ppb	13:28:29
1	P 214.914†	512.4	298.1	149.47 ug/L	149.47 ppb	13:28:29
1	Pb 220.353†	-8.6	62.2	6.8715 ug/L	6.8715 ppb	13:28:29
1	S 181.975 Axial†	129.1	82.2	99.473 ug/L	99.473 ppb	13:28:29
1	Sb 206.836†	81.5	49.1	15.556 ug/L	15.556 ppb	13:28:29
1	Se 196.026†	41.9	73.1	40.007 ug/L	40.007 ppb	13:28:29
1	Si 251.611†	3879.0	3541.5	105.23 ug/L	105.23 ppb	13:28:09
1	Sn 189.927†	90.9	76.8	12.504 ug/L	12.504 ppb	13:28:29
1	Ti 334.940†	1646.9	3406.1	5.2214 ug/L	5.2214 ppb	13:28:09
1	Tl 190.801†	32.5	77.0	22.080 ug/L	22.080 ppb	13:28:29
1	U 409.014†	-2691.3	1527.9	49.562 ug/L	49.562 ppb	13:28:09
1	V 292.402†	-957.5	712.8	5.1893 ug/L	5.1893 ppb	13:28:09
1	Zn 213.857†	1871.6	1199.9	10.203 ug/L	10.203 ppb	13:28:29
1	SiO2†	3849.1	3467.6	220.99 ug/L	220.99 ppb	13:29:25
2	Sc Radial	3745.4	3745.4	94.6 %		13:27:37
2	Y RADIAL	4151.7	4151.7	91.48 %		13:27:17
2	Al 396.153Radial†	32.9	230.6	206.69 ug/L	206.69 ppb	13:27:17
2	Ca 317.933Radial†	120.7	111.4	220.81 ug/L	220.81 ppb	13:27:37
2	Fe 238.204 Radial†	21.1	10.5	125.68 ug/L	125.68 ppb	13:27:37
2	K 766.490 Radial†	3899.7	1092.3	190.24 ug/L	190.24 ppb	13:27:17
2	Mg 279.077 IEC†	11.9	9.2	401.90 ug/L	401.90 ppb	13:27:37
2	Na 589.592 Radial†	-510.5	1045.4	299.75 ug/L	299.75 ppb	13:27:17
2	Sr 421.552†	699.3	738.9	4.9898 ug/L	4.9898 ppb	13:27:17
2	Sc 361.383	835184.6	835184.6	96.580 %		13:28:34
2	Y 371.029	660612.3	660612.3	96.851 %		13:28:34
2	Ag 328.068†	1533.1	1152.3	5.2494 ug/L	5.2494 ppb	13:28:34
2	As 188.979†	44.8	81.8	31.252 ug/L	31.252 ppb	13:28:54
2	B 249.677†	1754.5	2423.4	51.457 ug/L	51.457 ppb	13:28:34
2	Ba 233.527†	656.9	698.2	5.2764 ug/L	5.2764 ppb	13:28:54
2	Be 313.107†	10542.5	14859.9	5.0781 ug/L	5.0781 ppb	13:28:34
2	Cd 226.502†	265.2	474.2	4.9475 ug/L	4.9475 ppb	13:28:54
2	Co 228.616†	169.0	261.4	4.8705 ug/L	4.8705 ppb	13:28:54
2	Cr 267.716†	605.8	538.2	5.7312 ug/L	5.7312 ppb	13:28:34
2	Cu 324.752†	10275.5	3791.1	10.860 ug/L	10.860 ppb	13:28:34
2	Mn 257.610†	10481.7	10360.4	10.603 ug/L	10.603 ppb	13:28:34
2	Mo 202.031†	145.0	147.4	10.052 ug/L	10.052 ppb	13:28:54
2	Ni 231.604†	311.7	239.5	5.4399 ug/L	5.4399 ppb	13:28:54

2	P 214.914†	527.5	311.7	156.36 ug/L	156.36 ppb	13:28:54
2	Pb 220.353†	18.6	90.5	9.9517 ug/L	9.9517 ppb	13:28:54
2	S 181.975 Axial†	132.1	84.8	102.63 ug/L	102.63 ppb	13:28:54
2	Sb 206.836†	73.1	40.2	12.711 ug/L	12.711 ppb	13:28:54
2	Se 196.026†	19.8	50.0	27.523 ug/L	27.523 ppb	13:28:54
2	Si 251.611†	3869.6	3517.1	104.52 ug/L	104.52 ppb	13:28:34
2	Sn 189.927†	73.2	58.2	9.4821 ug/L	9.4821 ppb	13:28:54
2	Ti 334.940†	1524.8	3273.4	4.9980 ug/L	4.9980 ppb	13:28:34
2	Tl 190.801†	37.4	82.0	23.487 ug/L	23.487 ppb	13:28:54
2	U 409.014†	-2650.0	1581.0	51.281 ug/L	51.281 ppb	13:28:34
2	V 292.402†	-897.4	778.7	5.6275 ug/L	5.6275 ppb	13:28:34
2	Zn 213.857†	1875.0	1196.3	10.172 ug/L	10.172 ppb	13:28:54
2	SiO2†	3828.4	3431.5	218.74 ug/L	218.74 ppb	13:29:30
3	Sc Radial	3762.2	3762.2	95.0 %		13:28:02
3	Y RADIAL	4232.9	4232.9	93.27 %		13:27:42
3	Al 396.153Radial†	41.6	239.6	214.75 ug/L	214.75 ppb	13:27:42
3	Ca 317.933Radial†	118.8	108.8	215.70 ug/L	215.70 ppb	13:28:02
3	Fe 238.204 Radial†	20.9	10.2	121.56 ug/L	121.56 ppb	13:28:02
3	K 766.490 Radial†	4020.6	1201.3	209.22 ug/L	209.22 ppb	13:27:42
3	Mg 279.077 IEC†	6.9	4.0	172.30 ug/L	172.30 ppb	13:28:02
3	Na 589.592 Radial†	-442.7	1119.1	320.89 ug/L	320.89 ppb	13:27:42
3	Sr 421.552†	755.3	794.6	5.3662 ug/L	5.3662 ppb	13:27:42
3	Sc 361.383	836170.7	836170.7	96.694 %		13:29:00
3	Y 371.029	661357.0	661357.0	96.960 %		13:29:00
3	Ag 328.068†	1607.0	1226.8	5.5808 ug/L	5.5808 ppb	13:29:00
3	As 188.979†	42.8	79.8	30.467 ug/L	30.467 ppb	13:29:20
3	B 249.677†	1818.2	2487.2	52.813 ug/L	52.813 ppb	13:29:00
3	Ba 233.527†	646.4	686.6	5.1854 ug/L	5.1854 ppb	13:29:20
3	Be 313.107†	10570.5	14876.0	5.0840 ug/L	5.0840 ppb	13:29:00
3	Cd 226.502†	278.3	487.4	5.0851 ug/L	5.0851 ppb	13:29:20
3	Co 228.616†	169.2	261.3	4.8715 ug/L	4.8715 ppb	13:29:20
3	Cr 267.716†	539.4	468.8	4.9889 ug/L	4.9889 ppb	13:29:00
3	Cu 324.752†	10286.7	3790.2	10.857 ug/L	10.857 ppb	13:29:00
3	Mn 257.610†	10478.8	10344.6	10.596 ug/L	10.596 ppb	13:29:00
3	Mo 202.031†	156.4	159.0	10.843 ug/L	10.843 ppb	13:29:20
3	Ni 231.604†	287.7	214.3	4.8673 ug/L	4.8673 ppb	13:29:20
3	P 214.914†	513.8	296.9	148.83 ug/L	148.83 ppb	13:29:20
3	Pb 220.353†	18.2	90.0	9.9018 ug/L	9.9018 ppb	13:29:20
3	S 181.975 Axial†	132.7	85.3	103.16 ug/L	103.16 ppb	13:29:20
3	Sb 206.836†	78.1	45.2	14.293 ug/L	14.293 ppb	13:29:20
3	Se 196.026†	25.8	56.2	30.874 ug/L	30.874 ppb	13:29:20
3	Si 251.611†	3866.1	3508.8	104.26 ug/L	104.26 ppb	13:29:00
3	Sn 189.927†	77.2	62.2	10.136 ug/L	10.136 ppb	13:29:20
3	Ti 334.940†	1621.5	3371.5	5.1670 ug/L	5.1670 ppb	13:29:00
3	Tl 190.801†	30.7	75.0	21.503 ug/L	21.503 ppb	13:29:20
3	U 409.014†	-2653.7	1580.3	51.262 ug/L	51.262 ppb	13:29:00
3	V 292.402†	-1089.1	581.4	4.2657 ug/L	4.2657 ppb	13:29:00
3	Zn 213.857†	1875.0	1194.0	10.156 ug/L	10.156 ppb	13:29:20
3	SiO2†	3873.5	3473.6	221.40 ug/L	221.40 ppb	13:29:35

Mean Data: PQL

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	834494.9	96.500 %		0.2437			0.25%
Sc Radial	3745.3	94.6 %		0.43			0.45%
Y 371.029	659579.3	96.699 %		0.3610			0.37%
Y RADIAL	4180.9	92.12 %		0.995			1.08%
Ag 328.068†	1183.5	5.3888 ug/L		0.17186	5.3888 ppb	0.17186	3.19%
QC value within limits for Ag 328.068 Recovery = 107.78%							
Al 396.153Radial†	238.0	213.30 ug/L		6.025	213.30 ppb	6.025	2.82%
QC value within limits for Al 396.153Radial Recovery = 106.65%							
As 188.979†	78.8	30.106 ug/L		1.3630	30.106 ppb	1.3630	4.53%
QC value within limits for As 188.979 Recovery = 100.35%							
B 249.677†	2470.2	52.451 ug/L		0.8709	52.451 ppb	0.8709	1.66%
QC value within limits for B 249.677 Recovery = 104.90%							
Ba 233.527†	693.8	5.2421 ug/L		0.04940	5.2421 ppb	0.04940	0.94%
QC value within limits for Ba 233.527 Recovery = 104.84%							
Be 313.107†	14853.6	5.0763 ug/L		0.00878	5.0763 ppb	0.00878	0.17%
QC value within limits for Be 313.107 Recovery = 101.53%							
Ca 317.933Radial†	110.0	218.16 ug/L		2.562	218.16 ppb	2.562	1.17%

QC value within limits for Ca 317.933 Radial Recovery = 109.08%

Cd 226.502†	480.1	5.0089 ug/L	0.06996	5.0089 ppb	0.06996	1.40%
QC value within limits for Cd 226.502 Recovery = 100.18%						
Co 228.616†	262.4	4.8923 ug/L	0.03684	4.8923 ppb	0.03684	0.75%
QC value within limits for Co 228.616 Recovery = 97.85%						
Cr 267.716†	479.1	5.1004 ug/L	0.58308	5.1004 ppb	0.58308	11.43%
QC value within limits for Cr 267.716 Recovery = 102.01%						
Cu 324.752†	3770.4	10.800 ug/L	0.1002	10.800 ppb	0.1002	0.93%
QC value within limits for Cu 324.752 Recovery = 108.00%						
Fe 238.204 Radial†	10.4	124.27 ug/L	2.353	124.27 ppb	2.353	1.89%
QC value within limits for Fe 238.204 Radial Recovery = 124.27%						
K 766.490 Radial†	1159.2	201.90 ug/L	10.210	201.90 ppb	10.210	5.06%
QC value greater than the upper limit for K 766.490 Radial Recovery = 134.60%						
Mg 279.077 IEC†	5.7	248.25 ug/L	133.070	248.25 ppb	133.070	53.60%
QC value within limits for Mg 279.077 IEC Recovery = 82.75%						
Mn 257.610†	10391.8	10.641 ug/L	0.0726	10.641 ppb	0.0726	0.68%
QC value within limits for Mn 257.610 Recovery = 106.41%						
Mo 202.031†	160.5	10.948 ug/L	0.9534	10.948 ppb	0.9534	8.71%
QC value within limits for Mo 202.031 Recovery = 109.48%						
Na 589.592 Radial†	1068.8	306.45 ug/L	12.518	306.45 ppb	12.518	4.08%
QC value within limits for Na 589.592 Radial Recovery = 102.15%						
Ni 231.604†	231.6	5.2602 ug/L	0.34061	5.2602 ppb	0.34061	6.48%
QC value within limits for Ni 231.604 Recovery = 105.20%						
P 214.914†	302.2	151.55 ug/L	4.176	151.55 ppb	4.176	2.76%
QC value within limits for P 214.914 Recovery = 101.04%						
Pb 220.353†	80.9	8.9083 ug/L	1.76413	8.9083 ppb	1.76413	19.80%
QC value within limits for Pb 220.353 Recovery = 89.08%						
S 181.975 Axial†	84.1	101.75 ug/L	1.993	101.75 ppb	1.993	1.96%
QC value within limits for S 181.975 Axial Recovery = 101.75%						
Sb 206.836†	44.8	14.187 ug/L	1.4252	14.187 ppb	1.4252	10.05%
QC value greater than the upper limit for Sb 206.836 Recovery = 141.87%						
Se 196.026†	59.8	32.801 ug/L	6.4613	32.801 ppb	6.4613	19.70%
QC value within limits for Se 196.026 Recovery = 109.34%						
Si 251.611†	3522.5	104.67 ug/L	0.497	104.67 ppb	0.497	0.47%
QC value within limits for Si 251.611 Recovery = 104.67%						
Sn 189.927†	65.7	10.707 ug/L	1.5898	10.707 ppb	1.5898	14.85%
QC value within limits for Sn 189.927 Recovery = 107.07%						
Sr 421.552†	770.6	5.2040 ug/L	0.19351	5.2040 ppb	0.19351	3.72%
QC value within limits for Sr 421.552 Recovery = 104.08%						
Ti 334.940†	3350.3	5.1288 ug/L	0.11647	5.1288 ppb	0.11647	2.27%
QC value within limits for Ti 334.940 Recovery = 102.58%						
Tl 190.801†	78.0	22.357 ug/L	1.0207	22.357 ppb	1.0207	4.57%
QC value within limits for Tl 190.801 Recovery = 111.78%						
U 409.014†	1563.1	50.702 ug/L	0.9872	50.702 ppb	0.9872	1.95%
QC value within limits for U 409.014 Recovery = 101.40%						
V 292.402†	691.0	5.0275 ug/L	0.69516	5.0275 ppb	0.69516	13.83%
QC value within limits for V 292.402 Recovery = 100.55%						
Zn 213.857†	1196.8	10.177 ug/L	0.0236	10.177 ppb	0.0236	0.23%
QC value within limits for Zn 213.857 Recovery = 101.77%						
SiO2†	3457.6	220.38 ug/L	1.434	220.38 ppb	1.434	0.65%
QC value within limits for SiO2 Recovery = 103.46%						

QC Failed. Continue with analysis.

Sequence No.: 24

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/3/2010 13:31:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3749.2	3749.2	94.7 %		13:33:59
1	Y RADIAL	4165.9	4165.9	91.79 %		13:33:39
1	Al 396.153Radial†	-187.9	-2.6	-2.3407 ug/L	-2.3407 ppb	13:33:39
1	Ca 317.933Radial†	19.9	4.7	9.3852 ug/L	9.3852 ppb	13:33:59
1	Fe 238.204 Radial†	14.4	3.3	39.894 ug/L	39.894 ppb	13:33:59
1	K 766.490 Radial†	3060.3	201.6	35.150 ug/L	35.150 ppb	13:33:39
1	Mg 279.077 IEC†	0.5	-2.8	-120.10 ug/L	-120.10 ppb	13:33:59
1	Na 589.592 Radial†	-1513.9	-13.9	-3.9931 ug/L	-3.9931 ppb	13:33:39
1	Sr 421.552†	45.3	47.4	0.3202 ug/L	0.3202 ppb	13:33:39
1	Sc 361.383	839656.2	839656.2	97.097 %		13:34:56
1	Y 371.029	662854.4	662854.4	97.180 %		13:34:56
1	Ag 328.068†	419.3	-3.3	-0.0028 ug/L	-0.0028 ppb	13:34:56
1	As 188.979†	-34.5	-0.1	-0.0325 ug/L	-0.0325 ppb	13:35:16
1	B 249.677†	-506.5	85.2	1.8037 ug/L	1.8037 ppb	13:34:56
1	Ba 233.527†	-3.6	14.4	0.1086 ug/L	0.1086 ppb	13:35:16
1	Be 313.107†	-3760.6	71.0	0.0242 ug/L	0.0242 ppb	13:34:56
1	Cd 226.502†	-196.8	-3.1	-0.0366 ug/L	-0.0366 ppb	13:35:16
1	Co 228.616†	-91.5	-7.8	-0.1459 ug/L	-0.1459 ppb	13:35:16
1	Cr 267.716†	67.9	-19.1	-0.2030 ug/L	-0.2030 ppb	13:34:56
1	Cu 324.752†	6821.3	177.0	0.5104 ug/L	0.5104 ppb	13:34:56
1	Mn 257.610†	515.8	38.8	0.0485 ug/L	0.0485 ppb	13:35:16
1	Mo 202.031†	0.7	-2.1	-0.1413 ug/L	-0.1413 ppb	13:35:16
1	Ni 231.604†	72.5	-8.5	-0.1932 ug/L	-0.1932 ppb	13:35:16
1	P 214.914†	245.0	17.8	8.9395 ug/L	8.9395 ppb	13:35:16
1	Pb 220.353†	-62.0	7.4	0.8014 ug/L	0.8014 ppb	13:35:16
1	S 181.975 Axial†	51.8	1.5	1.7689 ug/L	1.7689 ppb	13:35:16
1	Sb 206.836†	62.3	28.6	8.8110 ug/L	8.8110 ppb	13:35:16
1	Se 196.026†	-22.0	6.8	3.8231 ug/L	3.8231 ppb	13:35:16
1	Si 251.611†	507.7	33.3	0.9931 ug/L	0.9931 ppb	13:35:16
1	Sn 189.927†	19.3	2.2	0.3652 ug/L	0.3652 ppb	13:35:16
1	Ti 334.940†	-1660.1	-15.2	-0.0119 ug/L	-0.0119 ppb	13:34:56
1	Tl 190.801†	-40.1	1.9	0.5423 ug/L	0.5423 ppb	13:35:16
1	U 409.014†	-4216.0	-17.3	-0.5655 ug/L	-0.5655 ppb	13:34:56
1	V 292.402†	-1711.0	-54.4	-0.3885 ug/L	-0.3885 ppb	13:34:56
1	Zn 213.857†	769.5	47.4	0.4023 ug/L	0.4023 ppb	13:35:16
1	SiO2†	577.8	62.7	4.0049 ug/L	4.0049 ppb	13:36:12
2	Sc Radial	3745.5	3745.5	94.6 %		13:34:24
2	Y RADIAL	4201.6	4201.6	92.58 %		13:34:04
2	Al 396.153Radial†	-208.1	-24.2	-21.755 ug/L	-21.755 ppb	13:34:04
2	Ca 317.933Radial†	21.6	6.5	12.971 ug/L	12.971 ppb	13:34:24
2	Fe 238.204 Radial†	12.1	1.0	11.729 ug/L	11.729 ppb	13:34:24
2	K 766.490 Radial†	3164.7	315.2	54.945 ug/L	54.945 ppb	13:34:04
2	Mg 279.077 IEC†	8.2	5.4	234.81 ug/L	234.81 ppb	13:34:24
2	Na 589.592 Radial†	-1494.2	5.4	1.5368 ug/L	1.5368 ppb	13:34:04
2	Sr 421.552†	13.6	13.9	0.0938 ug/L	0.0938 ppb	13:34:04
2	Sc 361.383	834325.7	834325.7	96.480 %		13:35:22
2	Y 371.029	659103.5	659103.5	96.630 %		13:35:22
2	Ag 328.068†	449.5	30.8	0.1460 ug/L	0.1460 ppb	13:35:22
2	As 188.979†	-34.7	-0.5	-0.1910 ug/L	-0.1910 ppb	13:35:42
2	B 249.677†	-504.5	83.9	1.7820 ug/L	1.7820 ppb	13:35:22
2	Ba 233.527†	-5.6	12.2	0.0910 ug/L	0.0910 ppb	13:35:42
2	Be 313.107†	-3806.5	-1.2	-0.0007 ug/L	-0.0007 ppb	13:35:22
2	Cd 226.502†	-173.1	20.2	0.2088 ug/L	0.2088 ppb	13:35:42
2	Co 228.616†	-89.8	-6.7	-0.1227 ug/L	-0.1227 ppb	13:35:42
2	Cr 267.716†	30.5	-57.4	-0.6109 ug/L	-0.6109 ppb	13:35:22
2	Cu 324.752†	6824.8	225.5	0.6515 ug/L	0.6515 ppb	13:35:22
2	Mn 257.610†	510.8	37.0	0.0294 ug/L	0.0294 ppb	13:35:42
2	Mo 202.031†	15.0	12.8	0.8706 ug/L	0.8706 ppb	13:35:42
2	Ni 231.604†	103.3	23.8	0.5419 ug/L	0.5419 ppb	13:35:42

2	P 214.914†	231.7	5.7	2.7259 ug/L	2.7259 ppb	13:35:42
2	Pb 220.353†	-64.8	4.0	0.4337 ug/L	0.4337 ppb	13:35:42
2	S 181.975 Axial†	67.4	17.9	21.686 ug/L	21.686 ppb	13:35:42
2	Sb 206.836†	40.6	6.6	2.0291 ug/L	2.0291 ppb	13:35:42
2	Se 196.026†	-23.8	4.8	2.6622 ug/L	2.6622 ppb	13:35:42
2	Si 251.611†	506.1	35.0	1.0302 ug/L	1.0302 ppb	13:35:42
2	Sn 189.927†	14.4	-2.7	-0.4439 ug/L	-0.4439 ppb	13:35:42
2	Ti 334.940†	-1719.5	-87.7	-0.1489 ug/L	-0.1489 ppb	13:35:22
2	Tl 190.801†	-34.2	7.7	2.2145 ug/L	2.2145 ppb	13:35:42
2	U 409.014†	-4368.1	-202.7	-6.5770 ug/L	-6.5770 ppb	13:35:22
2	V 292.402†	-1741.7	-97.4	-0.6732 ug/L	-0.6732 ppb	13:35:22
2	Zn 213.857†	773.5	56.6	0.4788 ug/L	0.4788 ppb	13:35:42
2	SiO2†	563.5	51.6	3.2707 ug/L	3.2707 ppb	13:36:17
3	Sc Radial	3750.3	3750.3	94.7 %		13:34:49
3	Y RADIAL	4225.8	4225.8	93.11 %		13:34:29
3	Al 396.153Radial†	-188.3	-3.0	-2.6742 ug/L	-2.6742 ppb	13:34:29
3	Ca 317.933Radial†	21.4	6.3	12.459 ug/L	12.459 ppb	13:34:49
3	Fe 238.204 Radial†	10.2	-1.0	-12.267 ug/L	-12.267 ppb	13:34:49
3	K 766.490 Radial†	3327.6	482.9	84.194 ug/L	84.194 ppb	13:34:29
3	Mg 279.077 IEC†	3.7	0.6	27.331 ug/L	27.331 ppb	13:34:49
3	Na 589.592 Radial†	-1564.9	-67.3	-19.286 ug/L	-19.286 ppb	13:34:29
3	Sr 421.552†	21.2	21.9	0.1479 ug/L	0.1479 ppb	13:34:29
3	Sc 361.383	838585.5	838585.5	96.973 %		13:35:47
3	Y 371.029	663061.5	663061.5	97.210 %		13:35:47
3	Ag 328.068†	344.8	-79.6	-0.3624 ug/L	-0.3624 ppb	13:35:47
3	As 188.979†	-25.8	8.9	3.3838 ug/L	3.3838 ppb	13:36:07
3	B 249.677†	-491.4	100.1	2.1294 ug/L	2.1294 ppb	13:35:47
3	Ba 233.527†	-1.5	16.5	0.1235 ug/L	0.1235 ppb	13:36:07
3	Be 313.107†	-3845.9	-21.9	-0.0078 ug/L	-0.0078 ppb	13:35:47
3	Cd 226.502†	-210.4	-17.4	-0.1804 ug/L	-0.1804 ppb	13:36:07
3	Co 228.616†	-89.6	-6.0	-0.1116 ug/L	-0.1116 ppb	13:36:07
3	Cr 267.716†	99.9	14.0	0.1503 ug/L	0.1503 ppb	13:35:47
3	Cu 324.752†	6855.2	220.9	0.6357 ug/L	0.6357 ppb	13:35:47
3	Mn 257.610†	527.9	51.9	0.0508 ug/L	0.0508 ppb	13:36:07
3	Mo 202.031†	4.0	1.4	0.0914 ug/L	0.0914 ppb	13:36:07
3	Ni 231.604†	94.7	14.5	0.3291 ug/L	0.3291 ppb	13:36:07
3	P 214.914†	226.0	-1.4	-0.8293 ug/L	-0.8293 ppb	13:36:07
3	Pb 220.353†	-81.0	-12.4	-1.3553 ug/L	-1.3553 ppb	13:36:07
3	S 181.975 Axial†	49.7	-0.6	-0.7848 ug/L	-0.7848 ppb	13:36:07
3	Sb 206.836†	51.0	17.1	5.2503 ug/L	5.2503 ppb	13:36:07
3	Se 196.026†	-31.1	-2.5	-1.4042 ug/L	-1.4042 ppb	13:36:07
3	Si 251.611†	525.9	52.8	1.5703 ug/L	1.5703 ppb	13:36:07
3	Sn 189.927†	15.2	-1.9	-0.3148 ug/L	-0.3148 ppb	13:36:07
3	Ti 334.940†	-1743.3	-103.1	-0.1571 ug/L	-0.1571 ppb	13:35:47
3	Tl 190.801†	-37.5	4.5	1.2874 ug/L	1.2874 ppb	13:36:07
3	U 409.014†	-4316.9	-126.9	-4.1174 ug/L	-4.1174 ppb	13:35:47
3	V 292.402†	-1666.7	-10.9	-0.0796 ug/L	-0.0796 ppb	13:35:47
3	Zn 213.857†	751.4	29.8	0.2527 ug/L	0.2527 ppb	13:36:07
3	SiO2†	572.7	58.2	3.7091 ug/L	3.7091 ppb	13:36:22

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	837522.5	96.850 %	0.3261			0.34%
Sc Radial	3748.3	94.7 %	0.06			0.07%
Y 371.029	661673.1	97.006 %	0.3266			0.34%
Y RADIAL	4197.8	92.49 %	0.663			0.72%
Ag 328.068†	-17.4	-0.0731 ug/L	0.26137	-0.0731 ppb	0.26137	357.75%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-9.9	-8.9233 ug/L	11.11371	-8.9233 ppb	11.11371	124.55%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.8	1.0534 ug/L	2.01970	1.0534 ppb	2.01970	191.72%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	89.7	1.9050 ug/L	0.19462	1.9050 ppb	0.19462	10.22%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	14.4	0.1077 ug/L	0.01628	0.1077 ppb	0.01628	15.12%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	16.0	0.0052 ug/L	0.01680	0.0052 ppb	0.01680	322.64%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	5.9	11.605 ug/L	1.9394	11.605 ppb	1.9394	16.71%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-0.1	-0.0027 ug/L	0.19678	-0.0027 ppb	0.19678	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-6.9	-0.1267 ug/L	0.01753	-0.1267 ppb	0.01753	13.83%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-20.8	-0.2212 ug/L	0.38092	-0.2212 ppb	0.38092	172.20%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	207.8	0.5992 ug/L	0.07734	0.5992 ppb	0.07734	12.91%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.1	13.118 ug/L	26.1083	13.118 ppb	26.1083	199.02%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	333.2	58.096 ug/L	24.6732	58.096 ppb	24.6732	42.47%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.1	47.349 ug/L	178.2981	47.349 ppb	178.2981	376.56%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	42.6	0.0429 ug/L	0.01174	0.0429 ppb	0.01174	27.35%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	4.0	0.2736 ug/L	0.52997	0.2736 ppb	0.52997	193.74%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-25.3	-7.2474 ug/L	10.78603	-7.2474 ppb	10.78603	148.83%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	9.9	0.2260 ug/L	0.37823	0.2260 ppb	0.37823	167.39%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	7.4	3.6120 ug/L	4.94434	3.6120 ppb	4.94434	136.89%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-0.3	-0.0400 ug/L	1.15379	-0.0400 ppb	1.15379	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	6.2	7.5566 ug/L	12.30264	7.5566 ppb	12.30264	162.81%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	17.4	5.3635 ug/L	3.39237	5.3635 ppb	3.39237	63.25%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	3.0	1.6937 ug/L	2.74494	1.6937 ppb	2.74494	162.07%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	40.4	1.1979 ug/L	0.32304	1.1979 ppb	0.32304	26.97%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-0.8	-0.1312 ug/L	0.43472	-0.1312 ppb	0.43472	331.44%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	27.7	0.1873 ug/L	0.11825	0.1873 ppb	0.11825	63.13%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-68.7	-0.1060 ug/L	0.08159	-0.1060 ppb	0.08159	76.98%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	4.7	1.3480 ug/L	0.83774	1.3480 ppb	0.83774	62.15%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-115.6	-3.7533 ug/L	3.02225	-3.7533 ppb	3.02225	80.52%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-54.2	-0.3804 ug/L	0.29685	-0.3804 ppb	0.29685	78.03%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	44.6	0.3779 ug/L	0.11497	0.3779 ppb	0.11497	30.42%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	57.5	3.6616 ug/L	0.36942	3.6616 ppb	0.36942	10.09%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 5

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/3/2010 14:15:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3707.8	3707.8	93.6 %		14:17:26
1	Y RADIAL	4064.2	4064.2	89.55 %		14:17:06
1	Al 396.153Radial†	5148.4	5694.4	5091.8 ug/L	5091.8 ppb	14:17:06
1	Ca 317.933Radial†	2452.2	2602.8	5160.4 ug/L	5160.4 ppb	14:17:26
1	Fe 238.204 Radial†	427.5	444.8	5312.2 ug/L	5312.2 ppb	14:17:26
1	K 766.490 Radial†	30235.5	29261.7	5095.1 ug/L	5095.1 ppb	14:17:06
1	Mg 279.077 IEC†	121.3	126.3	5495.1 ug/L	5495.1 ppb	14:17:26
1	Na 589.592 Radial†	32760.5	36574.3	10487 ug/L	10487 ppb	14:17:06
1	Sr 421.552†	69590.3	74324.1	502.06 ug/L	502.06 ppb	14:17:06
1	Sc 361.383	836465.0	836465.0	96.728 %		14:18:23
1	Y 371.029	651632.7	651632.7	95.534 %		14:18:23
1	Ag 328.068†	105307.1	108434.3	495.47 ug/L	495.47 ppb	14:18:29
1	As 188.979†	1195.3	1271.2	489.10 ug/L	489.10 ppb	14:18:49
1	B 249.677†	21185.2	22508.7	476.00 ug/L	476.00 ppb	14:18:29
1	Ba 233.527†	62900.3	65046.2	491.33 ug/L	491.33 ppb	14:18:29
1	Be 313.107†	1363452.2	1413519.7	483.07 ug/L	483.07 ppb	14:18:23
1	Cd 226.502†	44945.2	46665.3	486.65 ug/L	486.65 ppb	14:18:29
1	Co 228.616†	25354.5	26298.6	489.01 ug/L	489.01 ppb	14:18:29
1	Cr 267.716†	44629.0	46049.7	491.88 ug/L	491.88 ppb	14:18:29
1	Cu 324.752†	170092.3	168997.9	485.08 ug/L	485.08 ppb	14:18:29
1	Mn 257.610†	459423.0	474472.1	486.05 ug/L	486.05 ppb	14:18:23
1	Mo 202.031†	6973.1	7206.1	491.44 ug/L	491.44 ppb	14:18:49
1	Ni 231.604†	20919.6	21544.1	489.22 ug/L	489.22 ppb	14:18:29
1	P 214.914†	4796.5	4724.3	2307.0 ug/L	2307.0 ppb	14:18:49
1	Pb 220.353†	4209.2	4422.7	485.47 ug/L	485.47 ppb	14:18:49
1	S 181.975 Axial†	830.4	806.6	975.07 ug/L	975.07 ppb	14:18:49
1	Sb 206.836†	1563.0	1580.3	504.13 ug/L	504.13 ppb	14:18:49
1	Se 196.026†	844.0	902.0	506.53 ug/L	506.53 ppb	14:18:49
1	Si 251.611†	80523.4	82757.8	2456.3 ug/L	2456.3 ppb	14:18:29
1	Sn 189.927†	2924.0	3005.2	488.82 ug/L	488.82 ppb	14:18:49
1	Ti 334.940†	306482.4	318544.8	488.93 ug/L	488.93 ppb	14:18:29
1	Tl 190.801†	1615.5	1713.4	492.96 ug/L	492.96 ppb	14:18:49
1	U 409.014†	10559.1	15241.0	492.92 ug/L	492.92 ppb	14:18:29
1	V 292.402†	66559.6	70519.1	496.04 ug/L	496.04 ppb	14:18:29
1	Zn 213.857†	55871.9	57016.8	483.44 ug/L	483.44 ppb	14:18:29
1	SiO2†	80188.8	82369.0	5243.8 ug/L	5243.8 ppb	14:19:56
2	Sc Radial	3769.1	3769.1	95.2 %		14:17:51
2	Y RADIAL	4142.4	4142.4	91.27 %		14:17:31
2	Al 396.153Radial†	5060.8	5512.9	4929.1 ug/L	4929.1 ppb	14:17:31
2	Ca 317.933Radial†	2491.0	2600.9	5156.7 ug/L	5156.7 ppb	14:17:51
2	Fe 238.204 Radial†	432.2	442.3	5282.5 ug/L	5282.5 ppb	14:17:51
2	K 766.490 Radial†	29903.3	28387.3	4942.7 ug/L	4942.7 ppb	14:17:31
2	Mg 279.077 IEC†	116.8	119.4	5195.0 ug/L	5195.0 ppb	14:17:51
2	Na 589.592 Radial†	32580.6	35816.0	10270 ug/L	10270 ppb	14:17:31
2	Sr 421.552†	68884.3	72372.9	488.88 ug/L	488.88 ppb	14:17:31
2	Sc 361.383	841097.2	841097.2	97.264 %		14:18:54
2	Y 371.029	655410.2	655410.2	96.088 %		14:18:54
2	Ag 328.068†	104708.5	107219.3	489.93 ug/L	489.93 ppb	14:19:00
2	As 188.979†	1189.7	1258.6	484.27 ug/L	484.27 ppb	14:19:20
2	B 249.677†	21132.1	22333.4	472.29 ug/L	472.29 ppb	14:19:00
2	Ba 233.527†	62504.7	64281.3	485.55 ug/L	485.55 ppb	14:19:00
2	Be 313.107†	1377648.5	1420352.4	485.39 ug/L	485.39 ppb	14:18:54
2	Cd 226.502†	44727.2	46185.2	481.64 ug/L	481.64 ppb	14:19:00
2	Co 228.616†	25198.1	25993.4	483.33 ug/L	483.33 ppb	14:19:00
2	Cr 267.716†	44370.6	45529.9	486.33 ug/L	486.33 ppb	14:19:00
2	Cu 324.752†	169121.8	167031.7	479.43 ug/L	479.43 ppb	14:19:00
2	Mn 257.610†	463725.7	476280.1	487.91 ug/L	487.91 ppb	14:18:54
2	Mo 202.031†	6913.6	7105.3	484.57 ug/L	484.57 ppb	14:19:20
2	Ni 231.604†	20873.9	21378.0	485.45 ug/L	485.45 ppb	14:19:00

2	P 214.914†	4744.6	4643.7	2267.0 ug/L	2267.0 ppb	14:19:20
2	Pb 220.353†	4194.7	4383.9	481.17 ug/L	481.17 ppb	14:19:20
2	S 181.975 Axial†	817.2	788.2	952.87 ug/L	952.87 ppb	14:19:20
2	Sb 206.836†	1550.2	1558.2	497.10 ug/L	497.10 ppb	14:19:20
2	Se 196.026†	842.8	896.1	503.19 ug/L	503.19 ppb	14:19:20
2	Si 251.611†	80016.4	81778.1	2427.2 ug/L	2427.2 ppb	14:19:00
2	Sn 189.927†	2907.0	2971.1	483.28 ug/L	483.28 ppb	14:19:20
2	Ti 334.940†	304561.0	314824.3	483.24 ug/L	483.24 ppb	14:19:00
2	Tl 190.801†	1604.9	1693.3	487.20 ug/L	487.20 ppb	14:19:20
2	U 409.014†	10368.8	14985.3	484.63 ug/L	484.63 ppb	14:19:00
2	V 292.402†	66089.3	69656.5	489.94 ug/L	489.94 ppb	14:19:00
2	Zn 213.857†	55629.7	56449.8	478.62 ug/L	478.62 ppb	14:19:00
2	SiO2†	79898.3	81613.8	5195.8 ug/L	5195.8 ppb	14:20:01
3	Sc Radial	3726.7	3726.7	94.1 %		14:18:16
3	Y RADIAL	4148.7	4148.7	91.41 %		14:17:56
3	Al 396.153Radial†	5125.6	5642.3	5045.1 ug/L	5045.1 ppb	14:17:56
3	Ca 317.933Radial†	2474.0	2612.6	5179.8 ug/L	5179.8 ppb	14:18:16
3	Fe 238.204 Radial†	424.5	439.2	5245.8 ug/L	5245.8 ppb	14:18:16
3	K 766.490 Radial†	30354.6	29223.6	5088.4 ug/L	5088.4 ppb	14:17:56
3	Mg 279.077 IEC†	115.2	119.1	5181.7 ug/L	5181.7 ppb	14:18:16
3	Na 589.592 Radial†	33006.3	36657.1	10511 ug/L	10511 ppb	14:17:56
3	Sr 421.552†	69663.1	74022.6	500.02 ug/L	500.02 ppb	14:17:56
3	Sc 361.383	836412.2	836412.2	96.722 %		14:19:25
3	Y 371.029	651696.8	651696.8	95.544 %		14:19:25
3	Ag 328.068†	105400.3	108537.6	495.92 ug/L	495.92 ppb	14:19:31
3	As 188.979†	1198.1	1274.2	490.25 ug/L	490.25 ppb	14:19:51
3	B 249.677†	21278.4	22606.4	478.08 ug/L	478.08 ppb	14:19:31
3	Ba 233.527†	63085.2	65241.5	492.80 ug/L	492.80 ppb	14:19:31
3	Be 313.107†	1370020.6	1420399.8	485.42 ug/L	485.42 ppb	14:19:25
3	Cd 226.502†	45231.1	46963.7	489.77 ug/L	489.77 ppb	14:19:31
3	Co 228.616†	25415.6	26363.4	490.21 ug/L	490.21 ppb	14:19:31
3	Cr 267.716†	44787.2	46216.2	493.66 ug/L	493.66 ppb	14:19:31
3	Cu 324.752†	170051.6	168967.0	484.98 ug/L	484.98 ppb	14:19:31
3	Mn 257.610†	462103.1	477273.0	488.93 ug/L	488.93 ppb	14:19:25
3	Mo 202.031†	6934.9	7167.2	488.78 ug/L	488.78 ppb	14:19:51
3	Ni 231.604†	20946.9	21573.7	489.89 ug/L	489.89 ppb	14:19:31
3	P 214.914†	4790.1	4718.0	2303.8 ug/L	2303.8 ppb	14:19:51
3	Pb 220.353†	4222.8	4437.1	487.04 ug/L	487.04 ppb	14:19:51
3	S 181.975 Axial†	828.4	804.5	972.57 ug/L	972.57 ppb	14:19:51
3	Sb 206.836†	1567.6	1585.1	505.60 ug/L	505.60 ppb	14:19:51
3	Se 196.026†	846.3	904.5	507.67 ug/L	507.67 ppb	14:19:51
3	Si 251.611†	80666.0	82910.6	2460.9 ug/L	2460.9 ppb	14:19:31
3	Sn 189.927†	2940.0	3022.0	491.54 ug/L	491.54 ppb	14:19:51
3	Ti 334.940†	306968.9	319067.9	489.76 ug/L	489.76 ppb	14:19:31
3	Tl 190.801†	1623.3	1721.6	495.31 ug/L	495.31 ppb	14:19:51
3	U 409.014†	10517.9	15199.1	491.56 ug/L	491.56 ppb	14:19:31
3	V 292.402†	66652.8	70619.7	496.70 ug/L	496.70 ppb	14:19:31
3	Zn 213.857†	55950.8	57102.1	484.17 ug/L	484.17 ppb	14:19:31
3	SiO2†	80828.7	83035.9	5286.4 ug/L	5286.4 ppb	14:20:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	837991.5	96.904 %	0.3110			0.32%
Sc Radial	3734.5	94.3 %	0.79			0.84%
Y 371.029	652913.2	95.722 %	0.3171			0.33%
Y RADIAL	4118.4	90.75 %	1.037			1.14%
Ag 328.068†	108063.7	493.77 ug/L	3.337	493.77 ppb	3.337	0.68%
QC value within limits for Ag 328.068 Recovery = 98.75%						
Al 396.153Radial†	5616.5	5022.0 ug/L	83.78	5022.0 ppb	83.78	1.67%
QC value within limits for Al 396.153Radial Recovery = 100.44%						
As 188.979†	1268.0	487.87 ug/L	3.174	487.87 ppb	3.174	0.65%
QC value within limits for As 188.979 Recovery = 97.57%						
B 249.677†	22482.8	475.46 ug/L	2.931	475.46 ppb	2.931	0.62%
QC value within limits for B 249.677 Recovery = 95.09%						
Ba 233.527†	64856.3	489.90 ug/L	3.831	489.90 ppb	3.831	0.78%
QC value within limits for Ba 233.527 Recovery = 97.98%						
Be 313.107†	1418090.6	484.63 ug/L	1.347	484.63 ppb	1.347	0.28%
QC value within limits for Be 313.107 Recovery = 96.93%						
Ca 317.933Radial†	2605.4	5165.6 ug/L	12.44	5165.6 ppb	12.44	0.24%

QC value within limits for Ca 317.933 Radial Recovery = 103.31%

Cd 226.502†	46604.7	486.02 ug/L	4.101	486.02 ppb	4.101	0.84%
QC value within limits for Cd 226.502 Recovery = 97.20%						
Co 228.616†	26218.5	487.52 ug/L	3.673	487.52 ppb	3.673	0.75%
QC value within limits for Co 228.616 Recovery = 97.50%						
Cr 267.716†	45931.9	490.62 ug/L	3.822	490.62 ppb	3.822	0.78%
QC value within limits for Cr 267.716 Recovery = 98.12%						
Cu 324.752†	168332.2	483.16 ug/L	3.230	483.16 ppb	3.230	0.67%
QC value within limits for Cu 324.752 Recovery = 96.63%						
Fe 238.204 Radial†	442.1	5280.2 ug/L	33.25	5280.2 ppb	33.25	0.63%
QC value within limits for Fe 238.204 Radial Recovery = 105.60%						
K 766.490 Radial†	28957.5	5042.1 ug/L	86.11	5042.1 ppb	86.11	1.71%
QC value within limits for K 766.490 Radial Recovery = 100.84%						
Mg 279.077 IEC†	121.6	5290.6 ug/L	177.20	5290.6 ppb	177.20	3.35%
QC value within limits for Mg 279.077 IEC Recovery = 105.81%						
Mn 257.610†	476008.4	487.63 ug/L	1.458	487.63 ppb	1.458	0.30%
QC value within limits for Mn 257.610 Recovery = 97.53%						
Mo 202.031†	7159.5	488.26 ug/L	3.466	488.26 ppb	3.466	0.71%
QC value within limits for Mo 202.031 Recovery = 97.65%						
Na 589.592 Radial†	36349.2	10423 ug/L	132.9	10423 ppb	132.9	1.28%
QC value within limits for Na 589.592 Radial Recovery = 104.23%						
Ni 231.604†	21498.6	488.18 ug/L	2.394	488.18 ppb	2.394	0.49%
QC value within limits for Ni 231.604 Recovery = 97.64%						
P 214.914†	4695.3	2292.6 ug/L	22.22	2292.6 ppb	22.22	0.97%
QC value within limits for P 214.914 Recovery = 91.70%						
Pb 220.353†	4414.6	484.56 ug/L	3.037	484.56 ppb	3.037	0.63%
QC value within limits for Pb 220.353 Recovery = 96.91%						
S 181.975 Axial†	799.8	966.84 ug/L	12.158	966.84 ppb	12.158	1.26%
QC value within limits for S 181.975 Axial Recovery = 96.68%						
Sb 206.836†	1574.6	502.28 ug/L	4.541	502.28 ppb	4.541	0.90%
QC value within limits for Sb 206.836 Recovery = 100.46%						
Se 196.026†	900.9	505.80 ug/L	2.328	505.80 ppb	2.328	0.46%
QC value within limits for Se 196.026 Recovery = 101.16%						
Si 251.611†	82482.1	2448.1 ug/L	18.25	2448.1 ppb	18.25	0.75%
QC value within limits for Si 251.611 Recovery = 97.92%						
Sn 189.927†	2999.4	487.88 ug/L	4.208	487.88 ppb	4.208	0.86%
QC value within limits for Sn 189.927 Recovery = 97.58%						
Sr 421.552†	73573.2	496.98 ug/L	7.096	496.98 ppb	7.096	1.43%
QC value within limits for Sr 421.552 Recovery = 99.40%						
Ti 334.940†	317479.0	487.31 ug/L	3.545	487.31 ppb	3.545	0.73%
QC value within limits for Ti 334.940 Recovery = 97.46%						
Tl 190.801†	1709.4	491.82 ug/L	4.172	491.82 ppb	4.172	0.85%
QC value within limits for Tl 190.801 Recovery = 98.36%						
U 409.014†	15141.8	489.71 ug/L	4.444	489.71 ppb	4.444	0.91%
QC value within limits for U 409.014 Recovery = 97.94%						
V 292.402†	70265.1	494.23 ug/L	3.724	494.23 ppb	3.724	0.75%
QC value within limits for V 292.402 Recovery = 98.85%						
Zn 213.857†	56856.2	482.07 ug/L	3.014	482.07 ppb	3.014	0.63%
QC value within limits for Zn 213.857 Recovery = 96.41%						
SiO2†	82339.6	5242.0 ug/L	45.35	5242.0 ppb	45.35	0.87%
QC value within limits for SiO2 Recovery = 98.03%						

All analyte(s) passed QC.

Sequence No.: 6

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/3/2010 14:22:16

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	3760.9	3760.9	95.0 %		14:24:29
1	Y RADIAL	4246.7	4246.7	93.57 %		14:24:09
1	Al 396.153Radial†	-175.1	11.5	10.292 ug/L	10.292 ppb	14:24:09
1	Ca 317.933Radial†	17.3	1.9	3.7660 ug/L	3.7660 ppb	14:24:29
1	Fe 238.204 Radial†	11.7	0.5	6.3608 ug/L	6.3608 ppb	14:24:29
1	K 766.490 Radial†	3137.3	272.7	47.531 ug/L	47.531 ppb	14:24:09
1	Mg 279.077 IEC†	0.7	-2.5	-109.72 ug/L	-109.72 ppb	14:24:29
1	Na 589.592 Radial†	-1427.7	81.9	23.471 ug/L	23.471 ppb	14:24:09
1	Sr 421.552†	-4.8	-5.5	-0.0374 ug/L	-0.0374 ppb	14:24:09
1	Sc 361.383	825938.2	825938.2	95.511 %		14:25:26
1	Y 371.029	652987.5	652987.5	95.733 %		14:25:26
1	Ag 328.068†	520.3	109.7	0.5020 ug/L	0.5020 ppb	14:25:26
1	As 188.979†	-26.8	7.4	2.8330 ug/L	2.8330 ppb	14:25:46
1	B 249.677†	-399.3	188.8	4.0100 ug/L	4.0100 ppb	14:25:26
1	Ba 233.527†	-19.8	-2.7	-0.0212 ug/L	-0.0212 ppb	14:25:46
1	Be 313.107†	-3777.4	-10.9	-0.0041 ug/L	-0.0041 ppb	14:25:26
1	Cd 226.502†	-205.0	-15.0	-0.1583 ug/L	-0.1583 ppb	14:25:46
1	Co 228.616†	-83.5	-1.0	-0.0167 ug/L	-0.0167 ppb	14:25:46
1	Cr 267.716†	51.5	-35.1	-0.3731 ug/L	-0.3731 ppb	14:25:26
1	Cu 324.752†	6817.4	289.5	0.8343 ug/L	0.8343 ppb	14:25:26
1	Mn 257.610†	559.7	93.5	0.1009 ug/L	0.1009 ppb	14:25:46
1	Mo 202.031†	13.1	10.9	0.7429 ug/L	0.7429 ppb	14:25:46
1	Ni 231.604†	84.4	5.1	0.1167 ug/L	0.1167 ppb	14:25:46
1	P 214.914†	243.7	20.7	10.354 ug/L	10.354 ppb	14:25:46
1	Pb 220.353†	-70.5	-2.6	-0.2813 ug/L	-0.2813 ppb	14:25:46
1	S 181.975 Axial†	52.7	3.3	3.9336 ug/L	3.9336 ppb	14:25:46
1	Sb 206.836†	53.1	20.1	6.1767 ug/L	6.1767 ppb	14:25:46
1	Se 196.026†	-30.1	-2.0	-1.0666 ug/L	-1.0666 ppb	14:25:46
1	Si 251.611†	513.0	47.6	1.4071 ug/L	1.4071 ppb	14:25:46
1	Sn 189.927†	10.0	-7.1	-1.1597 ug/L	-1.1597 ppb	14:25:46
1	Ti 334.940†	-1734.8	-121.8	-0.1751 ug/L	-0.1751 ppb	14:25:26
1	Tl 190.801†	-38.5	2.9	0.8429 ug/L	0.8429 ppb	14:25:46
1	U 409.014†	-4286.4	-163.2	-5.2948 ug/L	-5.2948 ppb	14:25:26
1	V 292.402†	-1707.7	-80.2	-0.5590 ug/L	-0.5590 ppb	14:25:26
1	Zn 213.857†	766.6	57.6	0.4901 ug/L	0.4901 ppb	14:25:46
1	SiO2†	575.8	70.4	4.4738 ug/L	4.4738 ppb	14:26:42
2	Sc Radial	3696.9	3696.9	93.4 %		14:24:54
2	Y RADIAL	4242.1	4242.1	93.47 %		14:24:34
2	Al 396.153Radial†	-211.5	-30.7	-27.667 ug/L	-27.667 ppb	14:24:34
2	Ca 317.933Radial†	18.7	3.7	7.3638 ug/L	7.3638 ppb	14:24:54
2	Fe 238.204 Radial†	12.0	1.1	12.699 ug/L	12.699 ppb	14:24:54
2	K 766.490 Radial†	3056.4	243.2	42.382 ug/L	42.382 ppb	14:24:34
2	Mg 279.077 IEC†	5.3	2.4	105.24 ug/L	105.24 ppb	14:24:54
2	Na 589.592 Radial†	-1397.8	87.9	25.190 ug/L	25.190 ppb	14:24:34
2	Sr 421.552†	15.6	16.3	0.1100 ug/L	0.1100 ppb	14:24:34
2	Sc 361.383	838678.4	838678.4	96.984 %		14:25:51
2	Y 371.029	663050.5	663050.5	97.208 %		14:25:51
2	Ag 328.068†	408.5	-13.9	-0.0596 ug/L	-0.0596 ppb	14:25:51
2	As 188.979†	-40.1	-5.9	-2.2435 ug/L	-2.2435 ppb	14:26:11
2	B 249.677†	-435.4	157.9	3.3526 ug/L	3.3526 ppb	14:25:51
2	Ba 233.527†	7.7	26.0	0.1946 ug/L	0.1946 ppb	14:26:11
2	Be 313.107†	-3744.3	83.4	0.0281 ug/L	0.0281 ppb	14:25:51
2	Cd 226.502†	-187.2	6.6	0.0670 ug/L	0.0670 ppb	14:26:11
2	Co 228.616†	-92.2	-8.7	-0.1591 ug/L	-0.1591 ppb	14:26:11
2	Cr 267.716†	99.5	13.5	0.1448 ug/L	0.1448 ppb	14:25:51
2	Cu 324.752†	6829.6	193.7	0.5581 ug/L	0.5581 ppb	14:25:51
2	Mn 257.610†	522.3	46.1	0.0441 ug/L	0.0441 ppb	14:26:11
2	Mo 202.031†	18.0	15.7	1.0736 ug/L	1.0736 ppb	14:26:11
2	Ni 231.604†	90.7	10.3	0.2349 ug/L	0.2349 ppb	14:26:11

2	P 214.914†	244.1	17.2	8.6186 ug/L	8.6186 ppb	14:26:11
2	Pb 220.353†	-91.5	-23.2	-2.5418 ug/L	-2.5418 ppb	14:26:11
2	S 181.975 Axial†	55.2	5.0	6.0936 ug/L	6.0936 ppb	14:26:11
2	Sb 206.836†	54.6	20.8	6.4103 ug/L	6.4103 ppb	14:26:11
2	Se 196.026†	-31.8	-3.3	-1.7245 ug/L	-1.7245 ppb	14:26:11
2	Si 251.611†	536.4	63.5	1.8760 ug/L	1.8760 ppb	14:26:11
2	Sn 189.927†	14.8	-2.4	-0.3935 ug/L	-0.3935 ppb	14:26:11
2	Ti 334.940†	-1724.7	-83.8	-0.1351 ug/L	-0.1351 ppb	14:25:51
2	Tl 190.801†	-52.9	-11.3	-3.2346 ug/L	-3.2346 ppb	14:26:11
2	U 409.014†	-4276.2	-84.4	-2.7404 ug/L	-2.7404 ppb	14:25:51
2	V 292.402†	-1752.2	-98.8	-0.6758 ug/L	-0.6758 ppb	14:25:51
2	Zn 213.857†	796.7	76.4	0.6502 ug/L	0.6502 ppb	14:26:11
2	SiO2†	602.6	88.9	5.6449 ug/L	5.6449 ppb	14:26:47
3	Sc Radial	3707.7	3707.7	93.6 %		14:25:19
3	Y RADIAL	4160.6	4160.6	91.68 %		14:24:59
3	Al 396.153Radial†	-183.3	0.1	0.0612 ug/L	0.0612 ppb	14:24:59
3	Ca 317.933Radial†	35.3	21.5	42.551 ug/L	42.551 ppb	14:25:19
3	Fe 238.204 Radial†	15.7	4.9	58.609 ug/L	58.609 ppb	14:25:19
3	K 766.490 Radial†	3017.9	192.6	33.547 ug/L	33.547 ppb	14:24:59
3	Mg 279.077 IEC†	2.2	-1.0	-41.515 ug/L	-41.515 ppb	14:25:19
3	Na 589.592 Radial†	-1373.3	118.3	33.925 ug/L	33.925 ppb	14:24:59
3	Sr 421.552†	5.1	5.0	0.0334 ug/L	0.0334 ppb	14:24:59
3	Sc 361.383	835742.5	835742.5	96.644 %		14:26:17
3	Y 371.029	660420.0	660420.0	96.823 %		14:26:17
3	Ag 328.068†	496.7	78.8	0.3776 ug/L	0.3776 ppb	14:26:17
3	As 188.979†	-21.5	13.2	5.0546 ug/L	5.0546 ppb	14:26:37
3	B 249.677†	-447.3	143.9	3.0484 ug/L	3.0484 ppb	14:26:17
3	Ba 233.527†	-5.0	12.9	0.0981 ug/L	0.0981 ppb	14:26:37
3	Be 313.107†	-3862.3	-52.3	-0.0182 ug/L	-0.0182 ppb	14:26:17
3	Cd 226.502†	-195.0	-2.1	-0.0286 ug/L	-0.0286 ppb	14:26:37
3	Co 228.616†	-80.1	3.5	0.0644 ug/L	0.0644 ppb	14:26:37
3	Cr 267.716†	105.6	20.2	0.2169 ug/L	0.2169 ppb	14:26:17
3	Cu 324.752†	6748.7	134.8	0.3911 ug/L	0.3911 ppb	14:26:17
3	Mn 257.610†	506.0	31.1	0.0393 ug/L	0.0393 ppb	14:26:37
3	Mo 202.031†	4.4	1.7	0.1240 ug/L	0.1240 ppb	14:26:37
3	Ni 231.604†	78.6	-1.9	-0.0437 ug/L	-0.0437 ppb	14:26:37
3	P 214.914†	240.4	14.2	7.1162 ug/L	7.1162 ppb	14:26:37
3	Pb 220.353†	-72.3	-3.6	-0.4037 ug/L	-0.4037 ppb	14:26:37
3	S 181.975 Axial†	55.0	5.0	6.0751 ug/L	6.0751 ppb	14:26:37
3	Sb 206.836†	39.7	5.5	1.6911 ug/L	1.6911 ppb	14:26:37
3	Se 196.026†	-35.9	-7.7	-3.9690 ug/L	-3.9690 ppb	14:26:37
3	Si 251.611†	527.8	56.5	1.6810 ug/L	1.6810 ppb	14:26:37
3	Sn 189.927†	17.6	0.6	0.1002 ug/L	0.1002 ppb	14:26:37
3	Ti 334.940†	-1722.6	-87.8	-0.1249 ug/L	-0.1249 ppb	14:26:17
3	Tl 190.801†	-33.2	8.8	2.5237 ug/L	2.5237 ppb	14:26:37
3	U 409.014†	-4243.6	-66.1	-2.1533 ug/L	-2.1533 ppb	14:26:17
3	V 292.402†	-1692.8	-43.7	-0.3151 ug/L	-0.3151 ppb	14:26:17
3	Zn 213.857†	785.8	68.0	0.5759 ug/L	0.5759 ppb	14:26:37
3	SiO2†	564.5	51.7	3.2967 ug/L	3.2967 ppb	14:26:52

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	833453.0	96.380 %		0.7715			0.80%
Sc Radial	3721.8	94.0 %		0.86			0.92%
Y 371.029	658819.3	96.588 %		0.7651			0.79%
Y RADIAL	4216.5	92.91 %		1.068			1.15%
Ag 328.068†	58.2	0.2733 ug/L		0.29496	0.2733 ppb	0.29496	107.92%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-6.4	-5.7714 ug/L		19.63988	-5.7714 ppb	19.63988	340.30%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	4.9	1.8814 ug/L		3.74099	1.8814 ppb	3.74099	198.84%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	163.5	3.4703 ug/L		0.49146	3.4703 ppb	0.49146	14.16%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	12.1	0.0905 ug/L		0.10811	0.0905 ppb	0.10811	119.47%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	6.7	0.0020 ug/L		0.02373	0.0020 ppb	0.02373	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	9.0	17.894 ug/L		21.4296	17.894 ppb	21.4296	119.76%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-3.5	-0.0400 ug/L	0.11308	-0.0400 ppb	0.11308 282.90%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-2.1	-0.0372 ug/L	0.11314	-0.0372 ppb	0.11314 304.55%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-0.5	-0.0038 ug/L	0.32182	-0.0038 ppb	0.32182 >999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	206.0	0.5945 ug/L	0.22382	0.5945 ppb	0.22382 37.65%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	2.2	25.890 ug/L	28.5123	25.890 ppb	28.5123 110.13%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	236.1	41.153 ug/L	7.0728	41.153 ppb	7.0728 17.19%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-0.4	-15.333 ug/L	109.8451	-15.333 ppb	109.8451 716.38%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	56.9	0.0614 ug/L	0.03423	0.0614 ppb	0.03423 55.72%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	9.5	0.6468 ug/L	0.48204	0.6468 ppb	0.48204 74.53%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	96.0	27.529 ug/L	5.6059	27.529 ppb	5.6059 20.36%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	4.5	0.1026 ug/L	0.13985	0.1026 ppb	0.13985 136.24%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	17.4	8.6962 ug/L	1.62023	8.6962 ppb	1.62023 18.63%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-9.8	-1.0756 ug/L	1.27125	-1.0756 ppb	1.27125 118.19%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	4.4	5.3674 ug/L	1.24178	5.3674 ppb	1.24178 23.14%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	15.4	4.7594 ug/L	2.65976	4.7594 ppb	2.65976 55.88%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-4.3	-2.2534 ug/L	1.52174	-2.2534 ppb	1.52174 67.53%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	55.9	1.6547 ug/L	0.23556	1.6547 ppb	0.23556 14.24%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	-3.0	-0.4843 ug/L	0.63486	-0.4843 ppb	0.63486 131.08%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	5.2	0.0353 ug/L	0.07369	0.0353 ppb	0.07369 208.61%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-97.8	-0.1450 ug/L	0.02652	-0.1450 ppb	0.02652 18.29%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	0.2	0.0440 ug/L	2.96108	0.0440 ppb	2.96108 >999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-104.6	-3.3962 ug/L	1.67028	-3.3962 ppb	1.67028 49.18%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-74.2	-0.5166 ug/L	0.18402	-0.5166 ppb	0.18402 35.62%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	67.3	0.5721 ug/L	0.08013	0.5721 ppb	0.08013 14.01%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	70.3	4.4718 ug/L	1.17408	4.4718 ppb	1.17408 26.26%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 14
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 2/3/2010 15:18:06
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3738.5	3738.5	94.4 %		15:20:18
1	Y RADIAL	4033.4	4033.4	88.87 %		15:19:58
1	Al 396.153Radial†	5134.4	5634.3	5038.0 ug/L	5038.0 ppb	15:19:58
1	Ca 317.933Radial†	2487.6	2618.7	5191.9 ug/L	5191.9 ppb	15:20:18
1	Fe 238.204 Radial†	422.5	435.7	5204.0 ug/L	5204.0 ppb	15:20:18
1	K 766.490 Radial†	30267.0	29029.0	5054.8 ug/L	5054.8 ppb	15:19:58
1	Mg 279.077 IEC†	113.9	117.4	5107.8 ug/L	5107.8 ppb	15:20:18
1	Na 589.592 Radial†	30861.8	34274.9	9827.8 ug/L	9827.8 ppb	15:19:58
1	Sr 421.552†	67399.0	71390.8	482.24 ug/L	482.24 ppb	15:19:58
1	Sc 361.383	849687.2	849687.2	98.257 %		15:21:17
1	Y 371.029	660399.5	660399.5	96.820 %		15:21:17
1	Ag 328.068†	106231.7	107681.2	492.03 ug/L	492.03 ppb	15:21:17
1	As 188.979†	1208.5	1265.4	486.97 ug/L	486.97 ppb	15:21:37
1	B 249.677†	21639.4	22630.1	478.62 ug/L	478.62 ppb	15:21:17
1	Ba 233.527†	63987.3	65140.5	492.03 ug/L	492.03 ppb	15:21:17
1	Be 313.107†	1400612.8	1429404.8	488.51 ug/L	488.51 ppb	15:21:17
1	Cd 226.502†	45894.3	46908.1	489.19 ug/L	489.19 ppb	15:21:17
1	Co 228.616†	25296.4	25831.5	480.30 ug/L	480.30 ppb	15:21:37
1	Cr 267.716†	45147.5	45859.4	489.86 ug/L	489.86 ppb	15:21:17
1	Cu 324.752†	173751.5	169985.7	487.92 ug/L	487.92 ppb	15:21:17
1	Mn 257.610†	471004.8	478868.4	490.56 ug/L	490.56 ppb	15:21:17
1	Mo 202.031†	7043.7	7165.9	488.69 ug/L	488.69 ppb	15:21:37
1	Ni 231.604†	20879.2	21166.4	480.64 ug/L	480.64 ppb	15:21:37
1	P 214.914†	4877.5	4729.6	2309.1 ug/L	2309.1 ppb	15:21:37
1	Pb 220.353†	4309.3	4456.9	489.20 ug/L	489.20 ppb	15:21:37
1	S 181.975 Axial†	829.1	791.8	957.23 ug/L	957.23 ppb	15:21:37
1	Sb 206.836†	1579.0	1571.5	501.27 ug/L	501.27 ppb	15:21:37
1	Se 196.026†	841.6	886.1	497.55 ug/L	497.55 ppb	15:21:37
1	Si 251.611†	82316.5	83287.3	2472.1 ug/L	2472.1 ppb	15:21:17
1	Sn 189.927†	2957.0	2991.9	486.65 ug/L	486.65 ppb	15:21:37
1	Ti 334.940†	317892.0	325226.3	499.23 ug/L	499.23 ppb	15:21:17
1	Tl 190.801†	1623.9	1695.9	488.10 ug/L	488.10 ppb	15:21:37
1	U 409.014†	9895.5	14395.8	465.50 ug/L	465.50 ppb	15:21:17
1	V 292.402†	67209.5	70109.7	493.10 ug/L	493.10 ppb	15:21:17
1	Zn 213.857†	56894.2	57158.4	484.71 ug/L	484.71 ppb	15:21:17
1	SiO2†	79839.0	80722.9	5138.8 ug/L	5138.8 ppb	15:22:38
2	Sc Radial	3659.4	3659.4	92.4 %		15:20:43
2	Y RADIAL	4143.0	4143.0	91.29 %		15:20:23
2	Al 396.153Radial†	5209.4	5833.2	5216.3 ug/L	5216.3 ppb	15:20:23
2	Ca 317.933Radial†	2452.7	2637.9	5229.9 ug/L	5229.9 ppb	15:20:43
2	Fe 238.204 Radial†	414.8	437.1	5220.5 ug/L	5220.5 ppb	15:20:43
2	K 766.490 Radial†	30892.5	30399.8	5293.6 ug/L	5293.6 ppb	15:20:23
2	Mg 279.077 IEC†	115.1	121.3	5279.0 ug/L	5279.0 ppb	15:20:43
2	Na 589.592 Radial†	31301.0	35457.7	10167 ug/L	10167 ppb	15:20:23
2	Sr 421.552†	68805.5	74457.9	502.96 ug/L	502.96 ppb	15:20:23
2	Sc 361.383	837495.5	837495.5	96.847 %		15:21:45
2	Y 371.029	650869.1	650869.1	95.422 %		15:21:45
2	Ag 328.068†	104715.4	107689.4	492.06 ug/L	492.06 ppb	15:21:45
2	As 188.979†	1198.1	1272.6	489.69 ug/L	489.69 ppb	15:22:05
2	B 249.677†	21265.4	22564.5	477.20 ug/L	477.20 ppb	15:21:45
2	Ba 233.527†	62966.6	65034.6	491.23 ug/L	491.23 ppb	15:21:45
2	Be 313.107†	1377902.8	1426706.5	487.59 ug/L	487.59 ppb	15:21:45
2	Cd 226.502†	45243.9	46916.5	489.28 ug/L	489.28 ppb	15:21:45
2	Co 228.616†	25283.6	26193.2	487.04 ug/L	487.04 ppb	15:22:05
2	Cr 267.716†	44555.9	45917.5	490.48 ug/L	490.48 ppb	15:21:45
2	Cu 324.752†	170948.6	169665.8	487.00 ug/L	487.00 ppb	15:21:45
2	Mn 257.610†	463985.3	478598.6	490.28 ug/L	490.28 ppb	15:21:45
2	Mo 202.031†	7029.9	7255.9	494.83 ug/L	494.83 ppb	15:22:05
2	Ni 231.604†	20855.0	21450.8	487.10 ug/L	487.10 ppb	15:22:05

2	P 214.914†	4858.1	4781.7	2335.9 ug/L	2335.9 ppb	15:22:05
2	Pb 220.353†	4270.5	4480.7	491.85 ug/L	491.85 ppb	15:22:05
2	S 181.975 Axial†	820.4	795.1	961.19 ug/L	961.19 ppb	15:22:05
2	Sb 206.836†	1571.3	1586.9	506.26 ug/L	506.26 ppb	15:22:05
2	Se 196.026†	847.7	904.8	507.76 ug/L	507.76 ppb	15:22:05
2	Si 251.611†	80923.1	83068.1	2465.5 ug/L	2465.5 ppb	15:21:45
2	Sn 189.927†	2955.2	3033.8	493.47 ug/L	493.47 ppb	15:22:05
2	Ti 334.940†	312938.8	324821.5	498.60 ug/L	498.60 ppb	15:21:45
2	Tl 190.801†	1640.4	1737.0	499.83 ug/L	499.83 ppb	15:22:05
2	U 409.014†	9727.8	14369.2	464.64 ug/L	464.64 ppb	15:21:45
2	V 292.402†	66115.1	69975.4	492.26 ug/L	492.26 ppb	15:21:45
2	Zn 213.857†	56141.3	57224.0	485.23 ug/L	485.23 ppb	15:21:45
2	SiO2†	80592.5	82683.9	5263.8 ug/L	5263.8 ppb	15:22:43
3	Sc Radial	3713.3	3713.3	93.8 %		15:21:09
3	Y RADIAL	4133.2	4133.2	91.07 %		15:20:49
3	Al 396.153Radial†	5193.7	5734.6	5127.8 ug/L	5127.8 ppb	15:20:49
3	Ca 317.933Radial†	2484.4	2633.2	5220.7 ug/L	5220.7 ppb	15:21:09
3	Fe 238.204 Radial†	418.3	434.3	5187.1 ug/L	5187.1 ppb	15:21:09
3	K 766.490 Radial†	30327.2	29311.3	5104.0 ug/L	5104.0 ppb	15:20:49
3	Mg 279.077 IEC†	119.8	124.5	5417.5 ug/L	5417.5 ppb	15:21:09
3	Na 589.592 Radial†	30552.1	34167.0	9796.8 ug/L	9796.8 ppb	15:20:49
3	Sr 421.552†	67241.5	71708.2	484.39 ug/L	484.39 ppb	15:20:49
3	Sc 361.383	844289.3	844289.3	97.633 %		15:22:12
3	Y 371.029	656121.5	656121.5	96.193 %		15:22:12
3	Ag 328.068†	104977.5	107087.8	489.32 ug/L	489.32 ppb	15:22:12
3	As 188.979†	1206.1	1270.8	489.01 ug/L	489.01 ppb	15:22:32
3	B 249.677†	21360.3	22485.1	475.53 ug/L	475.53 ppb	15:22:12
3	Ba 233.527†	63160.7	64710.2	488.79 ug/L	488.79 ppb	15:22:12
3	Be 313.107†	1384026.8	1421530.3	485.82 ug/L	485.82 ppb	15:22:12
3	Cd 226.502†	45463.6	46765.6	487.70 ug/L	487.70 ppb	15:22:12
3	Co 228.616†	25244.6	25943.2	482.39 ug/L	482.39 ppb	15:22:32
3	Cr 267.716†	44770.1	45766.6	488.86 ug/L	488.86 ppb	15:22:12
3	Cu 324.752†	171543.9	168855.1	484.68 ug/L	484.68 ppb	15:22:12
3	Mn 257.610†	465640.5	476438.8	488.06 ug/L	488.06 ppb	15:22:12
3	Mo 202.031†	7046.0	7214.0	491.97 ug/L	491.97 ppb	15:22:32
3	Ni 231.604†	20883.2	21306.4	483.82 ug/L	483.82 ppb	15:22:32
3	P 214.914†	4863.4	4746.8	2318.6 ug/L	2318.6 ppb	15:22:32
3	Pb 220.353†	4295.1	4470.5	490.71 ug/L	490.71 ppb	15:22:32
3	S 181.975 Axial†	822.2	790.2	955.25 ug/L	955.25 ppb	15:22:32
3	Sb 206.836†	1572.8	1575.4	502.56 ug/L	502.56 ppb	15:22:32
3	Se 196.026†	851.1	901.2	505.72 ug/L	505.72 ppb	15:22:32
3	Si 251.611†	81230.3	82710.4	2454.9 ug/L	2454.9 ppb	15:22:12
3	Sn 189.927†	2944.8	2998.5	487.74 ug/L	487.74 ppb	15:22:32
3	Ti 334.940†	314253.3	323567.8	496.67 ug/L	496.67 ppb	15:22:12
3	Tl 190.801†	1633.7	1716.5	493.96 ug/L	493.96 ppb	15:22:32
3	U 409.014†	9749.5	14310.7	462.75 ug/L	462.75 ppb	15:22:12
3	V 292.402†	66513.9	69834.5	491.24 ug/L	491.24 ppb	15:22:12
3	Zn 213.857†	56246.0	56864.7	482.18 ug/L	482.18 ppb	15:22:12
3	SiO2†	81058.3	82491.3	5251.6 ug/L	5251.6 ppb	15:22:48

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	843824.0	97.579 %	0.7065			0.72%
Sc Radial	3703.7	93.5 %	1.02			1.09%
Y 371.029	655796.7	96.145 %	0.6998			0.73%
Y RADIAL	4103.2	90.41 %	1.337			1.48%
Ag 328.068†	107486.1	491.14 ug/L	1.573	491.14 ppb	1.573	0.32%
QC value within limits for Ag 328.068 Recovery = 98.23%						
Al 396.153Radial†	5734.0	5127.4 ug/L	89.19	5127.4 ppb	89.19	1.74%
QC value within limits for Al 396.153Radial Recovery = 102.55%						
As 188.979†	1269.6	488.56 ug/L	1.415	488.56 ppb	1.415	0.29%
QC value within limits for As 188.979 Recovery = 97.71%						
B 249.677†	22559.9	477.12 ug/L	1.543	477.12 ppb	1.543	0.32%
QC value within limits for B 249.677 Recovery = 95.42%						
Ba 233.527†	64961.8	490.68 ug/L	1.692	490.68 ppb	1.692	0.34%
QC value within limits for Ba 233.527 Recovery = 98.14%						
Be 313.107†	1425880.5	487.31 ug/L	1.367	487.31 ppb	1.367	0.28%
QC value within limits for Be 313.107 Recovery = 97.46%						
Ca 317.933Radial†	2629.9	5214.2 ug/L	19.83	5214.2 ppb	19.83	0.38%

QC value within limits for Ca 317.933 Radial Recovery = 104.28%

Cd 226.502†	46863.4	488.72 ug/L	0.883	488.72 ppb	0.883	0.18%
QC value within limits for Cd 226.502 Recovery = 97.74%						
Co 228.616†	25989.3	483.25 ug/L	3.450	483.25 ppb	3.450	0.71%
QC value within limits for Co 228.616 Recovery = 96.65%						
Cr 267.716†	45847.8	489.73 ug/L	0.813	489.73 ppb	0.813	0.17%
QC value within limits for Cr 267.716 Recovery = 97.95%						
Cu 324.752†	169502.2	486.53 ug/L	1.673	486.53 ppb	1.673	0.34%
QC value within limits for Cu 324.752 Recovery = 97.31%						
Fe 238.204 Radial†	435.7	5203.9 ug/L	16.73	5203.9 ppb	16.73	0.32%
QC value within limits for Fe 238.204 Radial Recovery = 104.08%						
K 766.490 Radial†	29580.0	5150.8 ug/L	126.11	5150.8 ppb	126.11	2.45%
QC value within limits for K 766.490 Radial Recovery = 103.02%						
Mg 279.077 IEC†	121.1	5268.1 ug/L	155.15	5268.1 ppb	155.15	2.95%
QC value within limits for Mg 279.077 IEC Recovery = 105.36%						
Mn 257.610†	477968.6	489.63 ug/L	1.370	489.63 ppb	1.370	0.28%
QC value within limits for Mn 257.610 Recovery = 97.93%						
Mo 202.031†	7211.9	491.83 ug/L	3.072	491.83 ppb	3.072	0.62%
QC value within limits for Mo 202.031 Recovery = 98.37%						
Na 589.592 Radial†	34633.2	9930.5 ug/L	205.32	9930.5 ppb	205.32	2.07%
QC value within limits for Na 589.592 Radial Recovery = 99.31%						
Ni 231.604†	21307.8	483.85 ug/L	3.229	483.85 ppb	3.229	0.67%
QC value within limits for Ni 231.604 Recovery = 96.77%						
P 214.914†	4752.7	2321.2 ug/L	13.60	2321.2 ppb	13.60	0.59%
QC value within limits for P 214.914 Recovery = 92.85%						
Pb 220.353†	4469.3	490.59 ug/L	1.332	490.59 ppb	1.332	0.27%
QC value within limits for Pb 220.353 Recovery = 98.12%						
S 181.975 Axial†	792.4	957.89 ug/L	3.024	957.89 ppb	3.024	0.32%
QC value within limits for S 181.975 Axial Recovery = 95.79%						
Sb 206.836†	1577.9	503.36 ug/L	2.590	503.36 ppb	2.590	0.51%
QC value within limits for Sb 206.836 Recovery = 100.67%						
Se 196.026†	897.4	503.67 ug/L	5.401	503.67 ppb	5.401	1.07%
QC value within limits for Se 196.026 Recovery = 100.73%						
Si 251.611†	83021.9	2464.1 ug/L	8.68	2464.1 ppb	8.68	0.35%
QC value within limits for Si 251.611 Recovery = 98.57%						
Sn 189.927†	3008.1	489.29 ug/L	3.664	489.29 ppb	3.664	0.75%
QC value within limits for Sn 189.927 Recovery = 97.86%						
Sr 421.552†	72519.0	489.86 ug/L	11.394	489.86 ppb	11.394	2.33%
QC value within limits for Sr 421.552 Recovery = 97.97%						
Ti 334.940†	324538.5	498.17 ug/L	1.337	498.17 ppb	1.337	0.27%
QC value within limits for Ti 334.940 Recovery = 99.63%						
Tl 190.801†	1716.5	493.96 ug/L	5.865	493.96 ppb	5.865	1.19%
QC value within limits for Tl 190.801 Recovery = 98.79%						
U 409.014†	14358.6	464.30 ug/L	1.411	464.30 ppb	1.411	0.30%
QC value within limits for U 409.014 Recovery = 92.86%						
V 292.402†	69973.2	492.20 ug/L	0.930	492.20 ppb	0.930	0.19%
QC value within limits for V 292.402 Recovery = 98.44%						
Zn 213.857†	57082.4	484.04 ug/L	1.629	484.04 ppb	1.629	0.34%
QC value within limits for Zn 213.857 Recovery = 96.81%						
SiO2†	81966.0	5218.0 ug/L	68.91	5218.0 ppb	68.91	1.32%
QC value within limits for SiO2 Recovery = 97.58%						

All analyte(s) passed QC.

Sequence No.: 15

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/3/2010 15:24:59

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	3688.3	3688.3	93.1 %		15:27:11
1	Y RADIAL	4131.5	4131.5	91.03 %		15:26:51
1	Al 396.153Radial†	-189.5	-7.6	-6.8599 ug/L	-6.8599 ppb	15:26:51
1	Ca 317.933Radial†	17.2	2.2	4.3716 ug/L	4.3716 ppb	15:27:11
1	Fe 238.204 Radial†	12.1	1.2	14.575 ug/L	14.575 ppb	15:27:11
1	K 766.490 Radial†	3212.9	418.9	73.033 ug/L	73.033 ppb	15:26:51
1	Mg 279.077 IEC†	1.9	-1.3	-56.688 ug/L	-56.688 ppb	15:27:11
1	Na 589.592 Radial†	-1431.9	47.7	13.687 ug/L	13.687 ppb	15:26:51
1	Sr 421.552†	32.8	34.8	0.2353 ug/L	0.2353 ppb	15:26:51
1	Sc 361.383	844138.3	844138.3	97.615 %		15:28:08
1	Y 371.029	665581.2	665581.2	97.579 %		15:28:08
1	Ag 328.068†	416.4	-8.5	-0.0307 ug/L	-0.0307 ppb	15:28:08
1	As 188.979†	-28.0	6.8	2.6006 ug/L	2.6006 ppb	15:28:28
1	B 249.677†	-527.3	66.7	1.4150 ug/L	1.4150 ppb	15:28:08
1	Ba 233.527†	-6.1	11.8	0.0876 ug/L	0.0876 ppb	15:28:28
1	Be 313.107†	-3891.3	-42.3	-0.0145 ug/L	-0.0145 ppb	15:28:08
1	Cd 226.502†	-205.5	-10.9	-0.1167 ug/L	-0.1167 ppb	15:28:28
1	Co 228.616†	-100.1	-16.2	-0.2995 ug/L	-0.2995 ppb	15:28:28
1	Cr 267.716†	91.1	4.3	0.0479 ug/L	0.0479 ppb	15:28:08
1	Cu 324.752†	6803.5	121.4	0.3531 ug/L	0.3531 ppb	15:28:08
1	Mn 257.610†	522.1	42.4	0.0472 ug/L	0.0472 ppb	15:28:28
1	Mo 202.031†	10.9	8.3	0.5674 ug/L	0.5674 ppb	15:28:28
1	Ni 231.604†	95.2	14.3	0.3247 ug/L	0.3247 ppb	15:28:28
1	P 214.914†	223.7	-5.3	-2.7568 ug/L	-2.7568 ppb	15:28:28
1	Pb 220.353†	-77.5	-8.2	-0.8994 ug/L	-0.8994 ppb	15:28:28
1	S 181.975 Axial†	50.4	-0.3	-0.3289 ug/L	-0.3289 ppb	15:28:28
1	Sb 206.836†	41.4	6.8	2.1159 ug/L	2.1159 ppb	15:28:28
1	Se 196.026†	-18.8	10.2	5.5775 ug/L	5.5775 ppb	15:28:28
1	Si 251.611†	648.2	174.5	5.1852 ug/L	5.1852 ppb	15:28:28
1	Sn 189.927†	16.2	-1.0	-0.1687 ug/L	-0.1687 ppb	15:28:28
1	Ti 334.940†	-1687.6	-34.2	-0.0442 ug/L	-0.0442 ppb	15:28:08
1	Tl 190.801†	-38.0	4.3	1.2222 ug/L	1.2222 ppb	15:28:28
1	U 409.014†	-4436.7	-220.3	-7.1516 ug/L	-7.1516 ppb	15:28:08
1	V 292.402†	-1761.9	-97.1	-0.6829 ug/L	-0.6829 ppb	15:28:08
1	Zn 213.857†	759.2	32.7	0.2754 ug/L	0.2754 ppb	15:28:28
1	SiO2†	703.0	187.7	11.965 ug/L	11.965 ppb	15:29:24
2	Sc Radial	3732.0	3732.0	94.2 %		15:27:36
2	Y RADIAL	4196.3	4196.3	92.46 %		15:27:16
2	Al 396.153Radial†	-189.5	-5.3	-4.7578 ug/L	-4.7578 ppb	15:27:16
2	Ca 317.933Radial†	18.3	3.1	6.2164 ug/L	6.2164 ppb	15:27:36
2	Fe 238.204 Radial†	12.5	1.4	16.886 ug/L	16.886 ppb	15:27:36
2	K 766.490 Radial†	3079.3	236.7	41.260 ug/L	41.260 ppb	15:27:16
2	Mg 279.077 IEC†	0.3	-3.0	-130.72 ug/L	-130.72 ppb	15:27:36
2	Na 589.592 Radial†	-1446.3	50.5	14.481 ug/L	14.481 ppb	15:27:16
2	Sr 421.552†	48.9	51.4	0.3474 ug/L	0.3474 ppb	15:27:16
2	Sc 361.383	837468.8	837468.8	96.844 %		15:28:34
2	Y 371.029	660181.4	660181.4	96.788 %		15:28:34
2	Ag 328.068†	430.9	9.8	0.0519 ug/L	0.0519 ppb	15:28:34
2	As 188.979†	-42.2	-8.1	-3.1019 ug/L	-3.1019 ppb	15:28:54
2	B 249.677†	-498.5	92.1	1.9542 ug/L	1.9542 ppb	15:28:34
2	Ba 233.527†	-7.9	9.9	0.0735 ug/L	0.0735 ppb	15:28:54
2	Be 313.107†	-3873.1	-55.3	-0.0194 ug/L	-0.0194 ppb	15:28:34
2	Cd 226.502†	-193.0	0.3	0.0009 ug/L	0.0009 ppb	15:28:54
2	Co 228.616†	-100.4	-17.3	-0.3198 ug/L	-0.3198 ppb	15:28:54
2	Cr 267.716†	65.6	-21.3	-0.2254 ug/L	-0.2254 ppb	15:28:34
2	Cu 324.752†	6846.5	221.3	0.6390 ug/L	0.6390 ppb	15:28:34
2	Mn 257.610†	527.2	51.9	0.0602 ug/L	0.0602 ppb	15:28:54
2	Mo 202.031†	7.2	4.6	0.3138 ug/L	0.3138 ppb	15:28:54
2	Ni 231.604†	93.8	13.7	0.3115 ug/L	0.3115 ppb	15:28:54

2	P 214.914†	249.6	23.2	11.680 ug/L	11.680 ppb	15:28:54
2	Pb 220.353†	-75.8	-7.1	-0.7757 ug/L	-0.7757 ppb	15:28:54
2	S 181.975 Axial†	54.7	4.6	5.5404 ug/L	5.5404 ppb	15:28:54
2	Sb 206.836†	50.7	16.8	5.2016 ug/L	5.2016 ppb	15:28:54
2	Se 196.026†	-31.0	-2.5	-1.3264 ug/L	-1.3264 ppb	15:28:54
2	Si 251.611†	610.0	140.3	4.1716 ug/L	4.1716 ppb	15:28:54
2	Sn 189.927†	26.0	9.2	1.5022 ug/L	1.5022 ppb	15:28:54
2	Ti 334.940†	-1795.0	-158.9	-0.2300 ug/L	-0.2300 ppb	15:28:34
2	Tl 190.801†	-42.4	-0.5	-0.1513 ug/L	-0.1513 ppb	15:28:54
2	U 409.014†	-4346.2	-163.1	-5.2933 ug/L	-5.2933 ppb	15:28:34
2	V 292.402†	-1747.1	-96.2	-0.6784 ug/L	-0.6784 ppb	15:28:34
2	Zn 213.857†	771.0	51.0	0.4318 ug/L	0.4318 ppb	15:28:54
2	SiO2†	634.0	122.3	7.7956 ug/L	7.7956 ppb	15:29:29
3	Sc Radial	3734.3	3734.3	94.3 %		15:28:02
3	Y RADIAL	4224.7	4224.7	93.09 %		15:27:41
3	Al 396.153Radial†	-173.3	12.1	10.839 ug/L	10.839 ppb	15:27:41
3	Ca 317.933Radial†	22.5	7.6	15.106 ug/L	15.106 ppb	15:28:02
3	Fe 238.204 Radial†	11.0	-0.2	-1.9993 ug/L	-1.9993 ppb	15:28:02
3	K 766.490 Radial†	3095.7	252.0	43.936 ug/L	43.936 ppb	15:27:41
3	Mg 279.077 IEC†	-1.1	-4.4	-192.56 ug/L	-192.56 ppb	15:28:02
3	Na 589.592 Radial†	-1475.0	20.9	6.0047 ug/L	6.0047 ppb	15:27:41
3	Sr 421.552†	-1.0	-1.5	-0.0100 ug/L	-0.0100 ppb	15:27:41
3	Sc 361.383	833148.1	833148.1	96.344 %		15:28:59
3	Y 371.029	656553.7	656553.7	96.256 %		15:28:59
3	Ag 328.068†	522.9	107.6	0.4868 ug/L	0.4868 ppb	15:28:59
3	As 188.979†	-25.9	8.6	3.2600 ug/L	3.2600 ppb	15:29:19
3	B 249.677†	-539.5	46.8	0.9952 ug/L	0.9952 ppb	15:28:59
3	Ba 233.527†	-9.5	8.2	0.0591 ug/L	0.0591 ppb	15:29:19
3	Be 313.107†	-3882.0	-85.2	-0.0293 ug/L	-0.0293 ppb	15:28:59
3	Cd 226.502†	-195.6	-3.4	-0.0364 ug/L	-0.0364 ppb	15:29:19
3	Co 228.616†	-85.7	-2.5	-0.0459 ug/L	-0.0459 ppb	15:29:19
3	Cr 267.716†	83.3	-2.6	-0.0271 ug/L	-0.0271 ppb	15:28:59
3	Cu 324.752†	6765.2	173.6	0.5011 ug/L	0.5011 ppb	15:28:59
3	Mn 257.610†	535.7	63.6	0.0728 ug/L	0.0728 ppb	15:29:19
3	Mo 202.031†	8.1	5.5	0.3779 ug/L	0.3779 ppb	15:29:19
3	Ni 231.604†	91.4	11.6	0.2645 ug/L	0.2645 ppb	15:29:19
3	P 214.914†	220.9	-5.2	-2.7316 ug/L	-2.7316 ppb	15:29:19
3	Pb 220.353†	-78.4	-10.2	-1.1155 ug/L	-1.1155 ppb	15:29:19
3	S 181.975 Axial†	47.9	-2.2	-2.6262 ug/L	-2.6262 ppb	15:29:19
3	Sb 206.836†	56.0	22.6	6.9372 ug/L	6.9372 ppb	15:29:19
3	Se 196.026†	-26.3	2.3	1.2201 ug/L	1.2201 ppb	15:29:19
3	Si 251.611†	613.0	146.7	4.3615 ug/L	4.3615 ppb	15:29:19
3	Sn 189.927†	10.5	-6.8	-1.0984 ug/L	-1.0984 ppb	15:29:19
3	Ti 334.940†	-1705.1	-75.2	-0.0954 ug/L	-0.0954 ppb	15:28:59
3	Tl 190.801†	-49.4	-8.1	-2.3045 ug/L	-2.3045 ppb	15:29:19
3	U 409.014†	-4320.4	-159.6	-5.1789 ug/L	-5.1789 ppb	15:28:59
3	V 292.402†	-1808.3	-169.1	-1.1819 ug/L	-1.1819 ppb	15:28:59
3	Zn 213.857†	766.9	50.9	0.4336 ug/L	0.4336 ppb	15:29:19
3	SiO2†	653.0	145.4	9.2691 ug/L	9.2691 ppb	15:29:35

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	838251.7	96.934 %		0.6403			0.66%
Sc Radial	3718.2	93.9 %		0.66			0.70%
Y 371.029	660772.1	96.874 %		0.6660			0.69%
Y RADIAL	4184.2	92.19 %		1.052			1.14%
Ag 328.068†	36.3	0.1693 ug/L		0.27804	0.1693 ppb	0.27804	164.23%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-0.3	-0.2594 ug/L		9.66920	-0.2594 ppb	9.66920	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	2.4	0.9196 ug/L		3.49823	0.9196 ppb	3.49823	380.42%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	68.5	1.4548 ug/L		0.48075	1.4548 ppb	0.48075	33.05%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	9.9	0.0734 ug/L		0.01427	0.0734 ppb	0.01427	19.45%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-60.9	-0.0211 ug/L		0.00753	-0.0211 ppb	0.00753	35.73%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	4.3	8.5647 ug/L		5.73962	8.5647 ppb	5.73962	67.01%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-4.7	-0.0507 ug/L	0.06006	-0.0507 ppb	0.06006	118.35%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-12.0	-0.2217 ug/L	0.15260	-0.2217 ppb	0.15260	68.82%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-6.5	-0.0682 ug/L	0.14120	-0.0682 ppb	0.14120	206.98%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	172.1	0.4977 ug/L	0.14300	0.4977 ppb	0.14300	28.73%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.8	9.8205 ug/L	10.30121	9.8205 ppb	10.30121	104.90%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	302.6	52.743 ug/L	17.6229	52.743 ppb	17.6229	33.41%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-2.9	-126.66 ug/L	68.027	-126.66 ppb	68.027	53.71%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	52.6	0.0600 ug/L	0.01278	0.0600 ppb	0.01278	21.28%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	6.1	0.4197 ug/L	0.13187	0.4197 ppb	0.13187	31.42%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	39.7	11.391 ug/L	4.6816	11.391 ppb	4.6816	41.10%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	13.2	0.3003 ug/L	0.03164	0.3003 ppb	0.03164	10.54%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	4.3	2.0637 ug/L	8.32756	2.0637 ppb	8.32756	403.52%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-8.5	-0.9302 ug/L	0.17195	-0.9302 ppb	0.17195	18.49%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	0.7	0.8618 ug/L	4.21150	0.8618 ppb	4.21150	488.70%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	15.4	4.7516 ug/L	2.44192	4.7516 ppb	2.44192	51.39%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	3.3	1.8237 ug/L	3.49130	1.8237 ppb	3.49130	191.44%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	153.9	4.5727 ug/L	0.53884	4.5727 ppb	0.53884	11.78%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	0.5	0.0784 ug/L	1.31782	0.0784 ppb	1.31782	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	28.3	0.1909 ug/L	0.18281	0.1909 ppb	0.18281	95.76%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-89.4	-0.1232 ug/L	0.09599	-0.1232 ppb	0.09599	77.91%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-1.4	-0.4112 ug/L	1.77766	-0.4112 ppb	1.77766	432.30%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-181.0	-5.8746 ug/L	1.10741	-5.8746 ppb	1.10741	18.85%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-120.8	-0.8477 ug/L	0.28939	-0.8477 ppb	0.28939	34.14%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	44.9	0.3803 ug/L	0.09079	0.3803 ppb	0.09079	23.88%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	151.8	9.6764 ug/L	2.11411	9.6764 ppb	2.11411	21.85%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

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Analysis Begun

Start Time: 2/3/2010 15:55:56

Plasma On Time: 2/1/2010 05:43:14

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601 Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\020310.sif

Batch ID:

Results Data Set: 020310

Results Library: C:\pe\Optima3\Results\Results.mdb
=====

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/3/2010 15:55:57

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	3606.2	3606.2	91.1 %		15:58:09
1	Y RADIAL	3980.8	3980.8	87.71 %		15:57:49
1	Al 396.153Radial†	5028.1	5717.2	5112.3 ug/L	5112.3 ppb	15:57:49
1	Ca 317.933Radial†	2453.3	2677.7	5308.8 ug/L	5308.8 ppb	15:58:09
1	Fe 238.204 Radial†	412.8	441.5	5272.9 ug/L	5272.9 ppb	15:58:09
1	K 766.490 Radial†	29596.7	29469.2	5131.4 ug/L	5131.4 ppb	15:57:49
1	Mg 279.077 IEC†	116.4	124.5	5418.3 ug/L	5418.3 ppb	15:58:09
1	Na 589.592 Radial†	30151.8	34694.5	9948.1 ug/L	9948.1 ppb	15:57:49
1	Sr 421.552†	66068.2	72548.4	490.06 ug/L	490.06 ppb	15:57:49
1	Sc 361.383	830397.5	830397.5	96.026 %		15:59:06
1	Y 371.029	644498.3	644498.3	94.488 %		15:59:06
1	Ag 328.068†	106088.9	110044.0	502.79 ug/L	502.79 ppb	15:59:12
1	As 188.979†	1181.0	1265.3	486.93 ug/L	486.93 ppb	15:59:32
1	B 249.677†	21615.6	23116.9	488.89 ug/L	488.89 ppb	15:59:12
1	Ba 233.527†	63545.7	66193.4	499.99 ug/L	499.99 ppb	15:59:12
1	Be 313.107†	1385192.5	1446459.0	494.32 ug/L	494.32 ppb	15:59:06
1	Cd 226.502†	45684.1	47774.3	498.23 ug/L	498.23 ppb	15:59:12
1	Co 228.616†	25772.4	26925.3	500.65 ug/L	500.65 ppb	15:59:12
1	Cr 267.716†	44967.9	46739.7	499.25 ug/L	499.25 ppb	15:59:12
1	Cu 324.752†	171940.4	172207.4	494.29 ug/L	494.29 ppb	15:59:12
1	Mn 257.610†	468082.9	486960.8	498.84 ug/L	498.84 ppb	15:59:06
1	Mo 202.031†	6912.5	7195.7	490.73 ug/L	490.73 ppb	15:59:32
1	Ni 231.604†	21269.7	22066.7	501.09 ug/L	501.09 ppb	15:59:12
1	P 214.914†	4789.8	4753.6	2320.1 ug/L	2320.1 ppb	15:59:32
1	Pb 220.353†	4177.3	4421.3	485.32 ug/L	485.32 ppb	15:59:32
1	S 181.975 Axial†	839.6	822.4	994.15 ug/L	994.15 ppb	15:59:32
1	Sb 206.836†	1549.9	1578.5	503.63 ug/L	503.63 ppb	15:59:32
1	Se 196.026†	843.6	908.0	509.64 ug/L	509.64 ppb	15:59:32
1	Si 251.611†	81562.9	84448.6	2506.6 ug/L	2506.6 ppb	15:59:12
1	Sn 189.927†	2929.3	3032.8	493.33 ug/L	493.33 ppb	15:59:32
1	Ti 334.940†	309498.9	324001.2	497.33 ug/L	497.33 ppb	15:59:12
1	Tl 190.801†	1613.8	1723.8	495.99 ug/L	495.99 ppb	15:59:32
1	U 409.014†	10431.1	15187.5	491.17 ug/L	491.17 ppb	15:59:12
1	V 292.402†	66985.3	71465.1	502.58 ug/L	502.58 ppb	15:59:12
1	Zn 213.857†	56690.9	58291.8	494.26 ug/L	494.26 ppb	15:59:12
1	SiO2†	80023.1	82802.2	5271.4 ug/L	5271.4 ppb	16:00:39
2	Sc Radial	3609.9	3609.9	91.2 %		15:58:34
2	Y RADIAL	3960.3	3960.3	87.26 %		15:58:14
2	Al 396.153Radial†	5196.4	5896.3	5272.9 ug/L	5272.9 ppb	15:58:14
2	Ca 317.933Radial†	2479.3	2703.5	5360.0 ug/L	5360.0 ppb	15:58:34
2	Fe 238.204 Radial†	415.8	444.3	5306.4 ug/L	5306.4 ppb	15:58:34
2	K 766.490 Radial†	30181.1	30077.8	5237.4 ug/L	5237.4 ppb	15:58:14
2	Mg 279.077 IEC†	114.3	122.1	5314.3 ug/L	5314.3 ppb	15:58:34
2	Na 589.592 Radial†	30744.0	35311.1	10125 ug/L	10125 ppb	15:58:14
2	Sr 421.552†	67972.7	74565.3	503.69 ug/L	503.69 ppb	15:58:14
2	Sc 361.383	828377.6	828377.6	95.793 %		15:59:37
2	Y 371.029	643271.6	643271.6	94.309 %		15:59:37

2	Ag 328.068†	104838.2	109007.8	498.09 ug/L	498.09 ppb	15:59:43
2	As 188.979†	1203.5	1291.8	497.00 ug/L	497.00 ppb	16:00:03
2	B 249.677†	21362.9	22908.0	484.46 ug/L	484.46 ppb	15:59:43
2	Ba 233.527†	62832.5	65610.2	495.59 ug/L	495.59 ppb	15:59:43
2	Be 313.107†	1375025.9	1439363.3	491.89 ug/L	491.89 ppb	15:59:37
2	Cd 226.502†	45064.1	47243.0	492.68 ug/L	492.68 ppb	15:59:43
2	Co 228.616†	25444.7	26648.6	495.52 ug/L	495.52 ppb	15:59:43
2	Cr 267.716†	44549.8	46417.5	495.81 ug/L	495.81 ppb	15:59:43
2	Cu 324.752†	169610.7	170212.0	488.56 ug/L	488.56 ppb	15:59:43
2	Mn 257.610†	464315.7	484216.7	496.04 ug/L	496.04 ppb	15:59:37
2	Mo 202.031†	6981.8	7285.7	496.86 ug/L	496.86 ppb	16:00:03
2	Ni 231.604†	20967.1	21804.8	495.14 ug/L	495.14 ppb	15:59:43
2	P 214.914†	4840.9	4819.1	2354.6 ug/L	2354.6 ppb	16:00:03
2	Pb 220.353†	4224.3	4481.1	491.90 ug/L	491.90 ppb	16:00:03
2	S 181.975 Axial†	833.1	817.8	988.61 ug/L	988.61 ppb	16:00:03
2	Sb 206.836†	1564.1	1597.2	509.59 ug/L	509.59 ppb	16:00:03
2	Se 196.026†	842.5	909.0	510.30 ug/L	510.30 ppb	16:00:03
2	Si 251.611†	80487.1	83532.7	2479.3 ug/L	2479.3 ppb	15:59:43
2	Sn 189.927†	2950.5	3062.4	498.14 ug/L	498.14 ppb	16:00:03
2	Ti 334.940†	306093.8	321232.5	493.10 ug/L	493.10 ppb	15:59:43
2	Tl 190.801†	1614.6	1728.8	497.39 ug/L	497.39 ppb	16:00:03
2	U 409.014†	10296.1	15073.1	487.46 ug/L	487.46 ppb	15:59:43
2	V 292.402†	66371.6	70994.6	499.40 ug/L	499.40 ppb	15:59:43
2	Zn 213.857†	56009.0	57723.9	489.44 ug/L	489.44 ppb	15:59:43
2	SiO2†	81814.8	84875.8	5403.6 ug/L	5403.6 ppb	16:00:44
3	Sc Radial	3660.0	3660.0	92.4 %		15:58:59
3	Y RADIAL	3969.8	3969.8	87.47 %		15:58:39
3	Al 396.153Radial†	5212.8	5835.8	5218.8 ug/L	5218.8 ppb	15:58:39
3	Ca 317.933Radial†	2449.8	2634.3	5222.8 ug/L	5222.8 ppb	15:58:59
3	Fe 238.204 Radial†	415.2	437.4	5224.7 ug/L	5224.7 ppb	15:58:59
3	K 766.490 Radial†	30237.9	29685.3	5169.1 ug/L	5169.1 ppb	15:58:39
3	Mg 279.077 IEC†	115.5	121.7	5296.1 ug/L	5296.1 ppb	15:58:59
3	Na 589.592 Radial†	30954.7	35076.6	10058 ug/L	10058 ppb	15:58:39
3	Sr 421.552†	68303.5	73900.6	499.20 ug/L	499.20 ppb	15:58:39
3	Sc 361.383	832100.3	832100.3	96.223 %		16:00:08
3	Y 371.029	646912.9	646912.9	94.842 %		16:00:08
3	Ag 328.068†	105904.4	109626.2	500.87 ug/L	500.87 ppb	16:00:14
3	As 188.979†	1204.4	1287.1	495.23 ug/L	495.23 ppb	16:00:34
3	B 249.677†	21494.0	22944.5	485.24 ug/L	485.24 ppb	16:00:14
3	Ba 233.527†	63586.8	66100.7	499.29 ug/L	499.29 ppb	16:00:14
3	Be 313.107†	1380868.9	1439013.8	491.78 ug/L	491.78 ppb	16:00:08
3	Cd 226.502†	45486.8	47471.8	495.08 ug/L	495.08 ppb	16:00:14
3	Co 228.616†	25706.5	26801.9	498.36 ug/L	498.36 ppb	16:00:14
3	Cr 267.716†	44918.9	46593.0	497.68 ug/L	497.68 ppb	16:00:14
3	Cu 324.752†	172044.8	171949.5	493.54 ug/L	493.54 ppb	16:00:14
3	Mn 257.610†	465813.2	483604.5	495.40 ug/L	495.40 ppb	16:00:08
3	Mo 202.031†	6958.9	7229.2	493.01 ug/L	493.01 ppb	16:00:34
3	Ni 231.604†	21200.3	21949.3	498.42 ug/L	498.42 ppb	16:00:14
3	P 214.914†	4777.1	4730.1	2308.4 ug/L	2308.4 ppb	16:00:34
3	Pb 220.353†	4191.3	4427.0	485.97 ug/L	485.97 ppb	16:00:34
3	S 181.975 Axial†	823.5	803.9	971.78 ug/L	971.78 ppb	16:00:34
3	Sb 206.836†	1579.5	1605.9	512.11 ug/L	512.11 ppb	16:00:34
3	Se 196.026†	829.7	891.8	500.71 ug/L	500.71 ppb	16:00:34
3	Si 251.611†	81438.6	84145.6	2497.5 ug/L	2497.5 ppb	16:00:14
3	Sn 189.927†	2936.5	3034.2	493.53 ug/L	493.53 ppb	16:00:34
3	Ti 334.940†	309857.2	323714.1	496.89 ug/L	496.89 ppb	16:00:14
3	Tl 190.801†	1610.2	1716.6	493.94 ug/L	493.94 ppb	16:00:34
3	U 409.014†	10565.1	15304.6	494.98 ug/L	494.98 ppb	16:00:14
3	V 292.402†	67045.5	71385.0	502.07 ug/L	502.07 ppb	16:00:14
3	Zn 213.857†	56469.6	57941.0	491.28 ug/L	491.28 ppb	16:00:14
3	SiO2†	80994.4	83641.1	5324.9 ug/L	5324.9 ppb	16:00:49

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	830291.8	96.014 %	0.2155			0.22%
Sc Radial	3625.4	91.6 %	0.76			0.83%
Y 371.029	644894.3	94.547 %	0.2716			0.29%
Y RADIAL	3970.3	87.48 %	0.226			0.26%
Ag 328.068†	109559.3	500.58 ug/L	2.365	500.58 ppb	2.365	0.47%

QC value within limits for Ag 328.068 Recovery = 100.12%							
Al 396.153Radial†	5816.4	5201.3 ug/L	81.71	5201.3 ppb	81.71	1.57%	
QC value within limits for Al 396.153Radial Recovery = 104.03%							
As 188.979†	1281.4	493.06 ug/L	5.375	493.06 ppb	5.375	1.09%	
QC value within limits for As 188.979 Recovery = 98.61%							
B 249.677†	22989.8	486.20 ug/L	2.364	486.20 ppb	2.364	0.49%	
QC value within limits for B 249.677 Recovery = 97.24%							
Ba 233.527†	65968.1	498.29 ug/L	2.364	498.29 ppb	2.364	0.47%	
QC value within limits for Ba 233.527 Recovery = 99.66%							
Be 313.107†	1441612.0	492.67 ug/L	1.435	492.67 ppb	1.435	0.29%	
QC value within limits for Be 313.107 Recovery = 98.53%							
Ca 317.933Radial†	2671.8	5297.2 ug/L	69.33	5297.2 ppb	69.33	1.31%	
QC value within limits for Ca 317.933Radial Recovery = 105.94%							
Cd 226.502†	47496.3	495.33 ug/L	2.783	495.33 ppb	2.783	0.56%	
QC value within limits for Cd 226.502 Recovery = 99.07%							
Co 228.616†	26791.9	498.18 ug/L	2.566	498.18 ppb	2.566	0.51%	
QC value within limits for Co 228.616 Recovery = 99.64%							
Cr 267.716†	46583.4	497.58 ug/L	1.723	497.58 ppb	1.723	0.35%	
QC value within limits for Cr 267.716 Recovery = 99.52%							
Cu 324.752†	171456.3	492.13 ug/L	3.112	492.13 ppb	3.112	0.63%	
QC value within limits for Cu 324.752 Recovery = 98.43%							
Fe 238.204 Radial†	441.1	5268.0 ug/L	41.08	5268.0 ppb	41.08	0.78%	
QC value within limits for Fe 238.204 Radial Recovery = 105.36%							
K 766.490 Radial†	29744.1	5179.3 ug/L	53.75	5179.3 ppb	53.75	1.04%	
QC value within limits for K 766.490 Radial Recovery = 103.59%							
Mg 279.077 IEC†	122.8	5342.9 ug/L	65.92	5342.9 ppb	65.92	1.23%	
QC value within limits for Mg 279.077 IEC Recovery = 106.86%							
Mn 257.610†	484927.3	496.76 ug/L	1.828	496.76 ppb	1.828	0.37%	
QC value within limits for Mn 257.610 Recovery = 99.35%							
Mo 202.031†	7236.9	493.53 ug/L	3.098	493.53 ppb	3.098	0.63%	
QC value within limits for Mo 202.031 Recovery = 98.71%							
Na 589.592 Radial†	35027.4	10044 ug/L	89.2	10044 ppb	89.2	0.89%	
QC value within limits for Na 589.592 Radial Recovery = 100.44%							
Ni 231.604†	21940.3	498.21 ug/L	2.979	498.21 ppb	2.979	0.60%	
QC value within limits for Ni 231.604 Recovery = 99.64%							
P 214.914†	4767.6	2327.7 ug/L	24.02	2327.7 ppb	24.02	1.03%	
QC value within limits for P 214.914 Recovery = 93.11%							
Pb 220.353†	4443.1	487.73 ug/L	3.628	487.73 ppb	3.628	0.74%	
QC value within limits for Pb 220.353 Recovery = 97.55%							
S 181.975 Axial†	814.7	984.85 ug/L	11.650	984.85 ppb	11.650	1.18%	
QC value within limits for S 181.975 Axial Recovery = 98.48%							
Sb 206.836†	1593.9	508.44 ug/L	4.355	508.44 ppb	4.355	0.86%	
QC value within limits for Sb 206.836 Recovery = 101.69%							
Se 196.026†	902.9	506.88 ug/L	5.361	506.88 ppb	5.361	1.06%	
QC value within limits for Se 196.026 Recovery = 101.38%							
Si 251.611†	84042.3	2494.5 ug/L	13.92	2494.5 ppb	13.92	0.56%	
QC value within limits for Si 251.611 Recovery = 99.78%							
Sn 189.927†	3043.1	495.00 ug/L	2.721	495.00 ppb	2.721	0.55%	
QC value within limits for Sn 189.927 Recovery = 99.00%							
Sr 421.552†	73671.5	497.65 ug/L	6.943	497.65 ppb	6.943	1.40%	
QC value within limits for Sr 421.552 Recovery = 99.53%							
Ti 334.940†	322982.6	495.77 ug/L	2.326	495.77 ppb	2.326	0.47%	
QC value within limits for Ti 334.940 Recovery = 99.15%							
Tl 190.801†	1723.1	495.77 ug/L	1.737	495.77 ppb	1.737	0.35%	
QC value within limits for Tl 190.801 Recovery = 99.15%							
U 409.014†	15188.4	491.20 ug/L	3.759	491.20 ppb	3.759	0.77%	
QC value within limits for U 409.014 Recovery = 98.24%							
V 292.402†	71281.6	501.35 ug/L	1.712	501.35 ppb	1.712	0.34%	
QC value within limits for V 292.402 Recovery = 100.27%							
Zn 213.857†	57985.6	491.66 ug/L	2.430	491.66 ppb	2.430	0.49%	
QC value within limits for Zn 213.857 Recovery = 98.33%							
SiO2†	83773.0	5333.3 ug/L	66.49	5333.3 ppb	66.49	1.25%	
QC value within limits for SiO2 Recovery = 99.73%							
All analyte(s) passed QC.							

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/3/2010 16:02:59

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	3749.0	3749.0	94.7 %		16:05:12
1	Y RADIAL	4180.4	4180.4	92.11 %		16:04:52
1	Al 396.153Radial†	-188.8	-3.6	-3.2389 ug/L	-3.2389 ppb	16:04:52
1	Ca 317.933Radial†	21.4	6.3	12.482 ug/L	12.482 ppb	16:05:12
1	Fe 238.204 Radial†	10.4	-0.9	-10.373 ug/L	-10.373 ppb	16:05:12
1	K 766.490 Radial†	3123.3	268.4	46.780 ug/L	46.780 ppb	16:04:52
1	Mg 279.077 IEC†	3.8	0.7	30.364 ug/L	30.364 ppb	16:05:12
1	Na 589.592 Radial†	-1471.2	31.1	8.9171 ug/L	8.9171 ppb	16:04:52
1	Sr 421.552†	21.7	22.5	0.1521 ug/L	0.1521 ppb	16:04:52
1	Sc 361.383	833949.0	833949.0	96.437 %		16:06:09
1	Y 371.029	656032.2	656032.2	96.179 %		16:06:09
1	Ag 328.068†	512.8	96.6	0.4384 ug/L	0.4384 ppb	16:06:09
1	As 188.979†	-26.4	8.1	3.0685 ug/L	3.0685 ppb	16:06:29
1	B 249.677†	-449.9	140.3	2.9841 ug/L	2.9841 ppb	16:06:09
1	Ba 233.527†	-24.4	-7.3	-0.0568 ug/L	-0.0568 ppb	16:06:29
1	Be 313.107†	-3880.5	-79.8	-0.0275 ug/L	-0.0275 ppb	16:06:09
1	Cd 226.502†	-206.9	-14.9	-0.1558 ug/L	-0.1558 ppb	16:06:29
1	Co 228.616†	-103.8	-21.3	-0.3929 ug/L	-0.3929 ppb	16:06:29
1	Cr 267.716†	70.8	-15.6	-0.1645 ug/L	-0.1645 ppb	16:06:09
1	Cu 324.752†	6816.1	219.6	0.6341 ug/L	0.6341 ppb	16:06:09
1	Mn 257.610†	537.8	65.2	0.0645 ug/L	0.0645 ppb	16:06:29
1	Mo 202.031†	13.7	11.3	0.7716 ug/L	0.7716 ppb	16:06:29
1	Ni 231.604†	90.8	10.9	0.2480 ug/L	0.2480 ppb	16:06:29
1	P 214.914†	236.4	10.7	5.3214 ug/L	5.3214 ppb	16:06:29
1	Pb 220.353†	-74.9	-6.5	-0.7042 ug/L	-0.7042 ppb	16:06:29
1	S 181.975 Axial†	53.0	3.0	3.6319 ug/L	3.6319 ppb	16:06:29
1	Sb 206.836†	51.9	18.3	5.6293 ug/L	5.6293 ppb	16:06:29
1	Se 196.026†	-31.4	-3.1	-1.6901 ug/L	-1.6901 ppb	16:06:29
1	Si 251.611†	550.5	81.3	2.4085 ug/L	2.4085 ppb	16:06:29
1	Sn 189.927†	11.1	-6.2	-0.9973 ug/L	-0.9973 ppb	16:06:29
1	Ti 334.940†	-1713.2	-81.9	-0.1232 ug/L	-0.1232 ppb	16:06:09
1	Tl 190.801†	-41.6	0.1	0.0388 ug/L	0.0388 ppb	16:06:29
1	U 409.014†	-4396.7	-234.4	-7.6046 ug/L	-7.6046 ppb	16:06:09
1	V 292.402†	-1741.3	-97.8	-0.6800 ug/L	-0.6800 ppb	16:06:09
1	Zn 213.857†	762.4	45.5	0.3880 ug/L	0.3880 ppb	16:06:29
1	SiO2†	562.9	51.3	3.2517 ug/L	3.2517 ppb	16:07:25
2	Sc Radial	3707.2	3707.2	93.6 %		16:05:37
2	Y RADIAL	4165.7	4165.7	91.79 %		16:05:17
2	Al 396.153Radial†	-180.6	2.9	2.5972 ug/L	2.5972 ppb	16:05:17
2	Ca 317.933Radial†	22.1	7.3	14.505 ug/L	14.505 ppb	16:05:37
2	Fe 238.204 Radial†	11.3	0.2	2.9247 ug/L	2.9247 ppb	16:05:37
2	K 766.490 Radial†	3086.9	266.7	46.489 ug/L	46.489 ppb	16:05:17
2	Mg 279.077 IEC†	2.0	-1.1	-49.038 ug/L	-49.038 ppb	16:05:37
2	Na 589.592 Radial†	-1498.8	-15.9	-4.5455 ug/L	-4.5455 ppb	16:05:17
2	Sr 421.552†	-1.2	-1.7	-0.0116 ug/L	-0.0116 ppb	16:05:17
2	Sc 361.383	831066.5	831066.5	96.104 %		16:06:35
2	Y 371.029	655016.9	655016.9	96.031 %		16:06:35
2	Ag 328.068†	339.2	-82.2	-0.3723 ug/L	-0.3723 ppb	16:06:35
2	As 188.979†	-32.4	1.7	0.6458 ug/L	0.6458 ppb	16:06:55
2	B 249.677†	-503.8	82.5	1.7539 ug/L	1.7539 ppb	16:06:35
2	Ba 233.527†	4.4	22.6	0.1699 ug/L	0.1699 ppb	16:06:55
2	Be 313.107†	-3785.5	5.1	0.0014 ug/L	0.0014 ppb	16:06:35
2	Cd 226.502†	-215.2	-24.3	-0.2543 ug/L	-0.2543 ppb	16:06:55
2	Co 228.616†	-91.0	-8.3	-0.1508 ug/L	-0.1508 ppb	16:06:55
2	Cr 267.716†	95.0	9.8	0.1043 ug/L	0.1043 ppb	16:06:35
2	Cu 324.752†	6693.6	116.7	0.3359 ug/L	0.3359 ppb	16:06:35
2	Mn 257.610†	516.2	44.6	0.0480 ug/L	0.0480 ppb	16:06:55
2	Mo 202.031†	16.8	14.7	1.0015 ug/L	1.0015 ppb	16:06:55
2	Ni 231.604†	74.4	-5.8	-0.1317 ug/L	-0.1317 ppb	16:06:55

2	P 214.914†	242.7	18.0	9.0980 ug/L	9.0980 ppb	16:06:55
2	Pb 220.353†	-80.1	-12.2	-1.3266 ug/L	-1.3266 ppb	16:06:55
2	S 181.975 Axial†	55.8	6.2	7.4490 ug/L	7.4490 ppb	16:06:55
2	Sb 206.836†	49.3	15.7	4.8563 ug/L	4.8563 ppb	16:06:55
2	Se 196.026†	-36.5	-8.5	-4.5938 ug/L	-4.5938 ppb	16:06:55
2	Si 251.611†	550.5	83.2	2.4639 ug/L	2.4639 ppb	16:06:55
2	Sn 189.927†	12.5	-4.6	-0.7441 ug/L	-0.7441 ppb	16:06:55
2	Ti 334.940†	-1722.3	-97.5	-0.1431 ug/L	-0.1431 ppb	16:06:35
2	Tl 190.801†	-36.2	5.5	1.5852 ug/L	1.5852 ppb	16:06:55
2	U 409.014†	-4203.1	-48.7	-1.5817 ug/L	-1.5817 ppb	16:06:35
2	V 292.402†	-1679.7	-40.0	-0.2679 ug/L	-0.2679 ppb	16:06:35
2	Zn 213.857†	761.1	46.9	0.4015 ug/L	0.4015 ppb	16:06:55
2	SiO2†	601.1	93.0	5.9082 ug/L	5.9082 ppb	16:07:31
3	Sc Radial	3719.8	3719.8	93.9 %		16:06:03
3	Y RADIAL	4207.1	4207.1	92.70 %		16:05:42
3	Al 396.153Radial†	-170.6	14.2	12.686 ug/L	12.686 ppb	16:05:42
3	Ca 317.933Radial†	15.2	-0.1	-0.1775 ug/L	-0.1775 ppb	16:06:03
3	Fe 238.204 Radial†	14.1	3.1	37.465 ug/L	37.465 ppb	16:06:03
3	K 766.490 Radial†	3027.5	192.3	33.516 ug/L	33.516 ppb	16:05:42
3	Mg 279.077 IEC†	0.6	-2.7	-117.36 ug/L	-117.36 ppb	16:06:03
3	Na 589.592 Radial†	-1452.4	39.0	11.172 ug/L	11.172 ppb	16:05:42
3	Sr 421.552†	43.1	45.5	0.3073 ug/L	0.3073 ppb	16:05:42
3	Sc 361.383	831647.9	831647.9	96.171 %		16:07:00
3	Y 371.029	656254.0	656254.0	96.212 %		16:07:00
3	Ag 328.068†	470.2	53.8	0.2535 ug/L	0.2535 ppb	16:07:00
3	As 188.979†	-22.7	11.9	4.5435 ug/L	4.5435 ppb	16:07:20
3	B 249.677†	-536.9	48.6	1.0254 ug/L	1.0254 ppb	16:07:00
3	Ba 233.527†	-9.8	7.8	0.0587 ug/L	0.0587 ppb	16:07:20
3	Be 313.107†	-3824.8	-33.0	-0.0120 ug/L	-0.0120 ppb	16:07:00
3	Cd 226.502†	-201.0	-9.4	-0.1020 ug/L	-0.1020 ppb	16:07:20
3	Co 228.616†	-79.8	3.4	0.0663 ug/L	0.0663 ppb	16:07:20
3	Cr 267.716†	82.7	-3.1	-0.0334 ug/L	-0.0334 ppb	16:07:00
3	Cu 324.752†	6810.7	233.6	0.6720 ug/L	0.6720 ppb	16:07:00
3	Mn 257.610†	505.3	33.0	0.0423 ug/L	0.0423 ppb	16:07:20
3	Mo 202.031†	14.8	12.6	0.8614 ug/L	0.8614 ppb	16:07:20
3	Ni 231.604†	79.5	-0.5	-0.0116 ug/L	-0.0116 ppb	16:07:20
3	P 214.914†	244.5	19.7	9.8667 ug/L	9.8667 ppb	16:07:20
3	Pb 220.353†	-75.7	-7.5	-0.8203 ug/L	-0.8203 ppb	16:07:20
3	S 181.975 Axial†	50.2	0.2	0.2968 ug/L	0.2968 ppb	16:07:20
3	Sb 206.836†	40.1	6.1	1.8957 ug/L	1.8957 ppb	16:07:20
3	Se 196.026†	-26.7	1.8	1.0785 ug/L	1.0785 ppb	16:07:20
3	Si 251.611†	556.6	89.2	2.6430 ug/L	2.6430 ppb	16:07:20
3	Sn 189.927†	13.5	-3.6	-0.5851 ug/L	-0.5851 ppb	16:07:20
3	Ti 334.940†	-1827.1	-205.3	-0.3061 ug/L	-0.3061 ppb	16:07:00
3	Tl 190.801†	-37.6	4.1	1.1638 ug/L	1.1638 ppb	16:07:20
3	U 409.014†	-4129.2	31.1	1.0066 ug/L	1.0066 ppb	16:07:00
3	V 292.402†	-1729.8	-90.9	-0.6241 ug/L	-0.6241 ppb	16:07:00
3	Zn 213.857†	748.8	33.6	0.2827 ug/L	0.2827 ppb	16:07:20
3	SiO2†	580.7	71.4	4.5317 ug/L	4.5317 ppb	16:07:36

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	832221.1	96.237 %		0.1763			0.18%
Sc Radial	3725.3	94.1 %		0.54			0.58%
Y 371.029	655767.7	96.141 %		0.0967			0.10%
Y RADIAL	4184.4	92.20 %		0.462			0.50%
Ag 328.068†	22.7	0.1065 ug/L		0.42484	0.1065 ppb	0.42484	398.76%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	4.5	4.0148 ug/L		8.05658	4.0148 ppb	8.05658	200.67%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	7.2	2.7526 ug/L		1.96794	2.7526 ppb	1.96794	71.49%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	90.5	1.9211 ug/L		0.98999	1.9211 ppb	0.98999	51.53%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	7.7	0.0573 ug/L		0.11336	0.0573 ppb	0.11336	197.89%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-35.9	-0.0127 ug/L		0.01446	-0.0127 ppb	0.01446	113.95%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	4.5	8.9366 ug/L		7.95759	8.9366 ppb	7.95759	89.05%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-16.2	-0.1707 ug/L	0.07723	-0.1707 ppb	0.07723 45.24%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-8.7	-0.1591 ug/L	0.22972	-0.1591 ppb	0.22972 144.36%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-3.0	-0.0312 ug/L	0.13442	-0.0312 ppb	0.13442 431.04%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	190.0	0.5473 ug/L	0.18407	0.5473 ppb	0.18407 33.63%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	0.8	10.006 ug/L	24.6923	10.006 ppb	24.6923 246.78%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	242.4	42.262 ug/L	7.5751	42.262 ppb	7.5751 17.92%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-1.0	-45.346 ug/L	73.9330	-45.346 ppb	73.9330 163.04%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	47.6	0.0516 ug/L	0.01152	0.0516 ppb	0.01152 22.33%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	12.9	0.8782 ug/L	0.11591	0.8782 ppb	0.11591 13.20%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	18.1	5.1812 ug/L	8.49862	5.1812 ppb	8.49862 164.03%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	1.5	0.0349 ug/L	0.19408	0.0349 ppb	0.19408 555.62%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	16.2	8.0954 ug/L	2.43290	8.0954 ppb	2.43290 30.05%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-8.7	-0.9504 ug/L	0.33096	-0.9504 ppb	0.33096 34.82%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	3.1	3.7925 ug/L	3.57881	3.7925 ppb	3.57881 94.36%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	13.4	4.1271 ug/L	1.97070	4.1271 ppb	1.97070 47.75%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-3.3	-1.7352 ug/L	2.83643	-1.7352 ppb	2.83643 163.47%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	84.6	2.5051 ug/L	0.12257	2.5051 ppb	0.12257 4.89%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	-4.8	-0.7755 ug/L	0.20788	-0.7755 ppb	0.20788 26.81%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	22.1	0.1493 ug/L	0.15950	0.1493 ppb	0.15950 106.85%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-128.2	-0.1908 ug/L	0.10034	-0.1908 ppb	0.10034 52.59%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	3.3	0.9293 ug/L	0.79942	0.9293 ppb	0.79942 86.03%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-84.0	-2.7266 ug/L	4.41826	-2.7266 ppb	4.41826 162.05%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-76.2	-0.5240 ug/L	0.22353	-0.5240 ppb	0.22353 42.66%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	42.0	0.3574 ug/L	0.06503	0.3574 ppb	0.06503 18.20%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	71.9	4.5639 ug/L	1.32851	4.5639 ppb	1.32851 29.11%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 12

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/3/2010 17:11:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3648.9	3648.9	92.1 %		17:13:58
1	Y RADIAL	4073.4	4073.4	89.75 %		17:13:38
1	Al 396.153Radial†	5119.7	5752.1	5143.7 ug/L	5143.7 ppb	17:13:38
1	Ca 317.933Radial†	2404.8	2593.6	5142.1 ug/L	5142.1 ppb	17:13:58
1	Fe 238.204 Radial†	398.2	420.4	5021.2 ug/L	5021.2 ppb	17:13:58
1	K 766.490 Radial†	29814.4	29325.8	5106.7 ug/L	5106.7 ppb	17:13:38
1	Mg 279.077 IEC†	111.3	117.5	5114.8 ug/L	5114.8 ppb	17:13:58
1	Na 589.592 Radial†	28996.9	33054.5	9477.8 ug/L	9477.8 ppb	17:13:38
1	Sr 421.552†	65851.6	71465.9	482.75 ug/L	482.75 ppb	17:13:38
1	Sc 361.383	841290.2	841290.2	97.286 %		17:14:57
1	Y 371.029	653188.8	653188.8	95.763 %		17:14:57
1	Ag 328.068†	104262.0	106735.6	487.66 ug/L	487.66 ppb	17:14:57
1	As 188.979†	1184.4	1252.9	482.11 ug/L	482.11 ppb	17:15:17
1	B 249.677†	21148.5	22345.3	472.59 ug/L	472.59 ppb	17:14:57
1	Ba 233.527†	62484.7	64246.0	485.28 ug/L	485.28 ppb	17:14:57
1	Be 313.107†	1367504.2	1409600.1	481.75 ug/L	481.75 ppb	17:14:57
1	Cd 226.502†	44764.4	46212.9	481.95 ug/L	481.95 ppb	17:14:57
1	Co 228.616†	25083.3	25869.5	481.02 ug/L	481.02 ppb	17:15:17
1	Cr 267.716†	44205.0	45349.2	484.41 ug/L	484.41 ppb	17:14:57
1	Cu 324.752†	170082.4	167979.3	482.16 ug/L	482.16 ppb	17:14:57
1	Mn 257.610†	460564.5	472921.3	484.45 ug/L	484.45 ppb	17:14:57
1	Mo 202.031†	6968.5	7160.1	488.28 ug/L	488.28 ppb	17:15:17
1	Ni 231.604†	20724.8	21219.8	481.85 ug/L	481.85 ppb	17:15:17
1	P 214.914†	4830.6	4730.9	2311.1 ug/L	2311.1 ppb	17:15:17
1	Pb 220.353†	4263.6	4453.7	488.89 ug/L	488.89 ppb	17:15:17
1	S 181.975 Axial†	828.1	799.3	966.19 ug/L	966.19 ppb	17:15:17
1	Sb 206.836†	1576.9	1585.4	505.52 ug/L	505.52 ppb	17:15:17
1	Se 196.026†	837.3	890.1	499.17 ug/L	499.17 ppb	17:15:17
1	Si 251.611†	80234.2	81983.1	2433.3 ug/L	2433.3 ppb	17:14:57
1	Sn 189.927†	2920.1	2983.9	485.36 ug/L	485.36 ppb	17:15:17
1	Ti 334.940†	311046.4	321418.9	493.39 ug/L	493.39 ppb	17:14:57
1	Tl 190.801†	1620.9	1709.3	491.87 ug/L	491.87 ppb	17:15:17
1	U 409.014†	9518.1	14108.5	456.21 ug/L	456.21 ppb	17:14:57
1	V 292.402†	65804.1	69347.8	487.82 ug/L	487.82 ppb	17:14:57
1	Zn 213.857†	55648.4	56455.9	478.72 ug/L	478.72 ppb	17:14:57
1	SiO2†	81238.9	82973.0	5282.4 ug/L	5282.4 ppb	17:16:18
2	Sc Radial	3657.3	3657.3	92.4 %		17:14:23
2	Y RADIAL	4063.6	4063.6	89.54 %		17:14:03
2	Al 396.153Radial†	5105.4	5723.7	5118.5 ug/L	5118.5 ppb	17:14:03
2	Ca 317.933Radial†	2404.4	2587.2	5129.4 ug/L	5129.4 ppb	17:14:23
2	Fe 238.204 Radial†	399.5	420.8	5025.7 ug/L	5025.7 ppb	17:14:23
2	K 766.490 Radial†	29466.2	28874.3	5028.0 ug/L	5028.0 ppb	17:14:03
2	Mg 279.077 IEC†	113.5	119.6	5206.4 ug/L	5206.4 ppb	17:14:23
2	Na 589.592 Radial†	28841.0	32813.2	9408.7 ug/L	9408.7 ppb	17:14:03
2	Sr 421.552†	65493.1	70913.4	479.02 ug/L	479.02 ppb	17:14:03
2	Sc 361.383	844660.7	844660.7	97.676 %		17:15:25
2	Y 371.029	656114.6	656114.6	96.192 %		17:15:25
2	Ag 328.068†	104465.7	106516.6	486.65 ug/L	486.65 ppb	17:15:25
2	As 188.979†	1187.2	1250.9	481.36 ug/L	481.36 ppb	17:15:45
2	B 249.677†	21237.2	22349.4	472.70 ug/L	472.70 ppb	17:15:25
2	Ba 233.527†	62682.2	64191.9	484.87 ug/L	484.87 ppb	17:15:25
2	Be 313.107†	1371923.3	1408515.3	481.38 ug/L	481.38 ppb	17:15:25
2	Cd 226.502†	44897.8	46165.8	481.46 ug/L	481.46 ppb	17:15:25
2	Co 228.616†	24915.4	25594.7	475.91 ug/L	475.91 ppb	17:15:45
2	Cr 267.716†	44293.8	45258.9	483.43 ug/L	483.43 ppb	17:15:25
2	Cu 324.752†	170460.2	167668.4	481.26 ug/L	481.26 ppb	17:15:25
2	Mn 257.610†	461113.9	471594.7	483.09 ug/L	483.09 ppb	17:15:25
2	Mo 202.031†	6936.4	7098.7	484.10 ug/L	484.10 ppb	17:15:45
2	Ni 231.604†	20556.4	20962.3	476.01 ug/L	476.01 ppb	17:15:45

2	P 214.914†	4768.0	4647.0	2268.6 ug/L	2268.6 ppb	17:15:45
2	Pb 220.353†	4222.4	4394.1	482.35 ug/L	482.35 ppb	17:15:45
2	S 181.975 Axial†	810.8	778.1	940.62 ug/L	940.62 ppb	17:15:45
2	Sb 206.836†	1546.6	1547.8	493.75 ug/L	493.75 ppb	17:15:45
2	Se 196.026†	832.0	881.3	494.40 ug/L	494.40 ppb	17:15:45
2	Si 251.611†	80378.6	81801.9	2427.9 ug/L	2427.9 ppb	17:15:25
2	Sn 189.927†	2884.1	2935.1	477.42 ug/L	477.42 ppb	17:15:45
2	Ti 334.940†	311927.9	321045.5	492.80 ug/L	492.80 ppb	17:15:25
2	Tl 190.801†	1581.0	1661.9	478.33 ug/L	478.33 ppb	17:15:45
2	U 409.014†	9983.4	14545.7	470.41 ug/L	470.41 ppb	17:15:25
2	V 292.402†	65880.5	69156.1	486.46 ug/L	486.46 ppb	17:15:25
2	Zn 213.857†	55715.7	56296.5	477.39 ug/L	477.39 ppb	17:15:25
2	SiO2†	81344.3	82747.6	5268.1 ug/L	5268.1 ppb	17:16:23
3	Sc Radial	3662.1	3662.1	92.5 %		17:14:49
3	Y RADIAL	4106.5	4106.5	90.48 %		17:14:29
3	Al 396.153Radial†	5158.6	5774.1	5163.6 ug/L	5163.6 ppb	17:14:29
3	Ca 317.933Radial†	2422.8	2603.6	5162.1 ug/L	5162.1 ppb	17:14:49
3	Fe 238.204 Radial†	401.5	422.4	5044.8 ug/L	5044.8 ppb	17:14:49
3	K 766.490 Radial†	29818.3	29213.4	5087.1 ug/L	5087.1 ppb	17:14:29
3	Mg 279.077 IEC†	111.6	117.4	5109.1 ug/L	5109.1 ppb	17:14:49
3	Na 589.592 Radial†	29086.6	33038.0	9473.1 ug/L	9473.1 ppb	17:14:29
3	Sr 421.552†	65982.1	71349.6	481.96 ug/L	481.96 ppb	17:14:29
3	Sc 361.383	848116.7	848116.7	98.075 %		17:15:52
3	Y 371.029	660326.7	660326.7	96.809 %		17:15:52
3	Ag 328.068†	104933.9	106558.1	486.85 ug/L	486.85 ppb	17:15:52
3	As 188.979†	1190.2	1249.0	480.61 ug/L	480.61 ppb	17:16:12
3	B 249.677†	21236.4	22259.9	470.79 ug/L	470.79 ppb	17:15:52
3	Ba 233.527†	62911.2	64163.9	484.66 ug/L	484.66 ppb	17:15:52
3	Be 313.107†	1382098.0	1413166.3	482.96 ug/L	482.96 ppb	17:15:52
3	Cd 226.502†	45121.7	46206.8	481.89 ug/L	481.89 ppb	17:15:52
3	Co 228.616†	25098.3	25677.2	477.45 ug/L	477.45 ppb	17:16:12
3	Cr 267.716†	44417.5	45200.2	482.81 ug/L	482.81 ppb	17:15:52
3	Cu 324.752†	171022.4	167530.5	480.86 ug/L	480.86 ppb	17:15:52
3	Mn 257.610†	462818.4	471408.9	482.91 ug/L	482.91 ppb	17:15:52
3	Mo 202.031†	7014.0	7148.8	487.51 ug/L	487.51 ppb	17:16:12
3	Ni 231.604†	20784.0	21108.7	479.33 ug/L	479.33 ppb	17:16:12
3	P 214.914†	4825.5	4685.8	2288.4 ug/L	2288.4 ppb	17:16:12
3	Pb 220.353†	4271.5	4426.6	485.92 ug/L	485.92 ppb	17:16:12
3	S 181.975 Axial†	833.8	798.3	965.00 ug/L	965.00 ppb	17:16:12
3	Sb 206.836†	1549.5	1544.3	492.84 ug/L	492.84 ppb	17:16:12
3	Se 196.026†	844.6	890.7	499.57 ug/L	499.57 ppb	17:16:12
3	Si 251.611†	80629.9	81722.8	2425.5 ug/L	2425.5 ppb	17:15:52
3	Sn 189.927†	2928.4	2968.3	482.82 ug/L	482.82 ppb	17:16:12
3	Ti 334.940†	313079.7	320918.6	492.62 ug/L	492.62 ppb	17:15:52
3	Tl 190.801†	1609.4	1684.2	484.69 ug/L	484.69 ppb	17:16:12
3	U 409.014†	9972.4	14492.9	468.69 ug/L	468.69 ppb	17:15:52
3	V 292.402†	66320.7	69330.1	487.71 ug/L	487.71 ppb	17:15:52
3	Zn 213.857†	55952.7	56305.7	477.45 ug/L	477.45 ppb	17:15:52
3	SiO2†	80913.5	81969.0	5218.4 ug/L	5218.4 ppb	17:16:28

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	844689.2	97.679 %	0.3947			0.40%
Sc Radial	3656.1	92.3 %	0.17			0.18%
Y 371.029	656543.4	96.254 %	0.5261			0.55%
Y RADIAL	4081.2	89.92 %	0.495			0.55%
Ag 328.068†	106603.4	487.05 ug/L	0.534	487.05 ppb	0.534	0.11%
QC value within limits for Ag 328.068 Recovery = 97.41%						
Al 396.153Radial†	5750.0	5141.9 ug/L	22.59	5141.9 ppb	22.59	0.44%
QC value within limits for Al 396.153Radial Recovery = 102.84%						
As 188.979†	1250.9	481.36 ug/L	0.746	481.36 ppb	0.746	0.16%
QC value within limits for As 188.979 Recovery = 96.27%						
B 249.677†	22318.2	472.03 ug/L	1.074	472.03 ppb	1.074	0.23%
QC value within limits for B 249.677 Recovery = 94.41%						
Ba 233.527†	64200.6	484.93 ug/L	0.314	484.93 ppb	0.314	0.06%
QC value within limits for Ba 233.527 Recovery = 96.99%						
Be 313.107†	1410427.3	482.03 ug/L	0.829	482.03 ppb	0.829	0.17%
QC value within limits for Be 313.107 Recovery = 96.41%						
Ca 317.933Radial†	2594.8	5144.5 ug/L	16.48	5144.5 ppb	16.48	0.32%

QC value within limits for Ca 317.933 Radial Recovery = 102.89%

Cd 226.502†	46195.2	481.77 ug/L	0.267	481.77 ppb	0.267	0.06%
QC value within limits for Cd 226.502 Recovery = 96.35%						
Co 228.616†	25713.8	478.13 ug/L	2.625	478.13 ppb	2.625	0.55%
QC value within limits for Co 228.616 Recovery = 95.63%						
Cr 267.716†	45269.4	483.55 ug/L	0.804	483.55 ppb	0.804	0.17%
QC value within limits for Cr 267.716 Recovery = 96.71%						
Cu 324.752†	167726.1	481.43 ug/L	0.663	481.43 ppb	0.663	0.14%
QC value within limits for Cu 324.752 Recovery = 96.29%						
Fe 238.204 Radial†	421.2	5030.6 ug/L	12.55	5030.6 ppb	12.55	0.25%
QC value within limits for Fe 238.204 Radial Recovery = 100.61%						
K 766.490 Radial†	29137.9	5073.9 ug/L	40.96	5073.9 ppb	40.96	0.81%
QC value within limits for K 766.490 Radial Recovery = 101.48%						
Mg 279.077 IEC†	118.2	5143.5 ug/L	54.59	5143.5 ppb	54.59	1.06%
QC value within limits for Mg 279.077 IEC Recovery = 102.87%						
Mn 257.610†	471975.0	483.48 ug/L	0.844	483.48 ppb	0.844	0.17%
QC value within limits for Mn 257.610 Recovery = 96.70%						
Mo 202.031†	7135.8	486.63 ug/L	2.227	486.63 ppb	2.227	0.46%
QC value within limits for Mo 202.031 Recovery = 97.33%						
Na 589.592 Radial†	32968.6	9453.2 ug/L	38.65	9453.2 ppb	38.65	0.41%
QC value within limits for Na 589.592 Radial Recovery = 94.53%						
Ni 231.604†	21097.0	479.06 ug/L	2.933	479.06 ppb	2.933	0.61%
QC value within limits for Ni 231.604 Recovery = 95.81%						
P 214.914†	4687.9	2289.3 ug/L	21.29	2289.3 ppb	21.29	0.93%
QC value within limits for P 214.914 Recovery = 91.57%						
Pb 220.353†	4424.8	485.72 ug/L	3.276	485.72 ppb	3.276	0.67%
QC value within limits for Pb 220.353 Recovery = 97.14%						
S 181.975 Axial†	791.9	957.27 ug/L	14.432	957.27 ppb	14.432	1.51%
QC value within limits for S 181.975 Axial Recovery = 95.73%						
Sb 206.836†	1559.2	497.37 ug/L	7.076	497.37 ppb	7.076	1.42%
QC value within limits for Sb 206.836 Recovery = 99.47%						
Se 196.026†	887.4	497.71 ug/L	2.879	497.71 ppb	2.879	0.58%
QC value within limits for Se 196.026 Recovery = 99.54%						
Si 251.611†	81835.9	2428.9 ug/L	3.96	2428.9 ppb	3.96	0.16%
QC value within limits for Si 251.611 Recovery = 97.16%						
Sn 189.927†	2962.4	481.87 ug/L	4.051	481.87 ppb	4.051	0.84%
QC value within limits for Sn 189.927 Recovery = 96.37%						
Sr 421.552†	71242.9	481.24 ug/L	1.968	481.24 ppb	1.968	0.41%
QC value within limits for Sr 421.552 Recovery = 96.25%						
Ti 334.940†	321127.7	492.93 ug/L	0.402	492.93 ppb	0.402	0.08%
QC value within limits for Ti 334.940 Recovery = 98.59%						
Tl 190.801†	1685.1	484.96 ug/L	6.774	484.96 ppb	6.774	1.40%
QC value within limits for Tl 190.801 Recovery = 96.99%						
U 409.014†	14382.4	465.10 ug/L	7.747	465.10 ppb	7.747	1.67%
QC value within limits for U 409.014 Recovery = 93.02%						
V 292.402†	69278.0	487.33 ug/L	0.755	487.33 ppb	0.755	0.15%
QC value within limits for V 292.402 Recovery = 97.47%						
Zn 213.857†	56352.7	477.85 ug/L	0.749	477.85 ppb	0.749	0.16%
QC value within limits for Zn 213.857 Recovery = 95.57%						
SiO2†	82563.2	5256.3 ug/L	33.63	5256.3 ppb	33.63	0.64%
QC value within limits for SiO2 Recovery = 98.29%						

All analyte(s) passed QC.

Sequence No.: 13
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 2/3/2010 17:18:39
 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	3684.5	3684.5	93.0 %		17:20:32
1	Y RADIAL	4029.7	4029.7	88.79 %		17:20:32
1	Al 396.153Radial†	-199.4	-18.5	-16.703 ug/L	-16.703 ppb	17:20:32
1	Ca 317.933Radial†	13.3	-1.9	-3.8508 ug/L	-3.8508 ppb	17:20:52
1	Fe 238.204 Radial†	9.1	-2.1	-24.456 ug/L	-24.456 ppb	17:20:52
1	K 766.490 Radial†	2930.9	119.3	20.797 ug/L	20.797 ppb	17:20:32
1	Mg 279.077 IEC†	2.9	-0.2	-10.095 ug/L	-10.095 ppb	17:20:52
1	Na 589.592 Radial†	-1492.4	-18.8	-5.4000 ug/L	-5.4000 ppb	17:20:32
1	Sr 421.552†	39.5	42.0	0.2838 ug/L	0.2838 ppb	17:20:32
1	Sc 361.383	838370.7	838370.7	96.948 %		17:21:49
1	Y 371.029	660330.8	660330.8	96.810 %		17:21:49
1	Ag 328.068†	436.4	15.0	0.0652 ug/L	0.0652 ppb	17:21:49
1	As 188.979†	-23.0	11.8	4.4827 ug/L	4.4827 ppb	17:22:09
1	B 249.677†	-489.0	102.5	2.1815 ug/L	2.1815 ppb	17:21:49
1	Ba 233.527†	-16.4	1.1	0.0074 ug/L	0.0074 ppb	17:22:09
1	Be 313.107†	-3821.7	2.1	0.0005 ug/L	0.0005 ppb	17:21:49
1	Cd 226.502†	-201.6	-8.3	-0.0859 ug/L	-0.0859 ppb	17:22:09
1	Co 228.616†	-96.3	-13.0	-0.2373 ug/L	-0.2373 ppb	17:22:09
1	Cr 267.716†	19.6	-68.8	-0.7318 ug/L	-0.7318 ppb	17:21:49
1	Cu 324.752†	6671.1	32.8	0.0971 ug/L	0.0971 ppb	17:21:49
1	Mn 257.610†	562.0	87.3	0.0873 ug/L	0.0873 ppb	17:22:09
1	Mo 202.031†	20.5	18.3	1.2460 ug/L	1.2460 ppb	17:22:09
1	Ni 231.604†	89.6	9.3	0.2103 ug/L	0.2103 ppb	17:22:09
1	P 214.914†	252.4	25.9	13.133 ug/L	13.133 ppb	17:22:09
1	Pb 220.353†	-67.8	1.2	0.1328 ug/L	0.1328 ppb	17:22:09
1	S 181.975 Axial†	50.0	-0.4	-0.4776 ug/L	-0.4776 ppb	17:22:09
1	Sb 206.836†	55.5	21.7	6.7084 ug/L	6.7084 ppb	17:22:09
1	Se 196.026†	-26.2	2.5	1.2619 ug/L	1.2619 ppb	17:22:09
1	Si 251.611†	568.8	97.2	2.8758 ug/L	2.8758 ppb	17:22:09
1	Sn 189.927†	12.0	-5.3	-0.8585 ug/L	-0.8585 ppb	17:22:09
1	Ti 334.940†	-1705.8	-64.9	-0.0958 ug/L	-0.0958 ppb	17:21:49
1	Tl 190.801†	-32.4	9.8	2.7934 ug/L	2.7934 ppb	17:22:09
1	U 409.014†	-4415.6	-229.8	-7.4538 ug/L	-7.4538 ppb	17:21:49
1	V 292.402†	-1684.7	-29.9	-0.2007 ug/L	-0.2007 ppb	17:21:49
1	Zn 213.857†	693.9	-29.3	-0.2497 ug/L	-0.2497 ppb	17:22:09
1	SiO2†	564.8	50.1	3.1634 ug/L	3.1634 ppb	17:23:05
2	Sc Radial	3756.2	3756.2	94.9 %		17:20:57
2	Y RADIAL	4131.0	4131.0	91.02 %		17:20:57
2	Al 396.153Radial†	-193.9	-8.6	-7.6976 ug/L	-7.6976 ppb	17:20:57
2	Ca 317.933Radial†	14.9	-0.5	-1.0772 ug/L	-1.0772 ppb	17:21:17
2	Fe 238.204 Radial†	14.4	3.4	40.281 ug/L	40.281 ppb	17:21:17
2	K 766.490 Radial†	3094.9	232.0	40.457 ug/L	40.457 ppb	17:20:57
2	Mg 279.077 IEC†	1.9	-1.2	-54.424 ug/L	-54.424 ppb	17:21:17
2	Na 589.592 Radial†	-1512.6	-9.5	-2.7224 ug/L	-2.7224 ppb	17:20:57
2	Sr 421.552†	-25.7	-27.5	-0.1858 ug/L	-0.1858 ppb	17:20:57
2	Sc 361.383	831264.7	831264.7	96.126 %		17:22:14
2	Y 371.029	655945.8	655945.8	96.167 %		17:22:14
2	Ag 328.068†	493.2	77.9	0.3695 ug/L	0.3695 ppb	17:22:14
2	As 188.979†	-27.4	6.9	2.6543 ug/L	2.6543 ppb	17:22:34
2	B 249.677†	-441.8	147.2	3.1221 ug/L	3.1221 ppb	17:22:14
2	Ba 233.527†	-15.2	2.3	0.0176 ug/L	0.0176 ppb	17:22:34
2	Be 313.107†	-3910.0	-123.4	-0.0426 ug/L	-0.0426 ppb	17:22:14
2	Cd 226.502†	-209.6	-18.4	-0.1969 ug/L	-0.1969 ppb	17:22:34
2	Co 228.616†	-97.8	-15.4	-0.2872 ug/L	-0.2872 ppb	17:22:34
2	Cr 267.716†	67.1	-19.2	-0.2033 ug/L	-0.2033 ppb	17:22:14
2	Cu 324.752†	6812.9	239.2	0.6909 ug/L	0.6909 ppb	17:22:14
2	Mn 257.610†	566.1	96.5	0.1050 ug/L	0.1050 ppb	17:22:34
2	Mo 202.031†	-4.5	-7.5	-0.5059 ug/L	-0.5059 ppb	17:22:34
2	Ni 231.604†	103.2	24.2	0.5495 ug/L	0.5495 ppb	17:22:34

2	P 214.914†	241.4	16.6	8.2820 ug/L	8.2820 ppb	17:22:34
2	Pb 220.353†	-84.2	-16.4	-1.8033 ug/L	-1.8033 ppb	17:22:34
2	S 181.975 Axial†	53.0	3.2	3.8304 ug/L	3.8304 ppb	17:22:34
2	Sb 206.836†	54.3	20.9	6.4378 ug/L	6.4378 ppb	17:22:34
2	Se 196.026†	-22.7	5.8	3.2892 ug/L	3.2892 ppb	17:22:34
2	Si 251.611†	557.9	90.8	2.7081 ug/L	2.7081 ppb	17:22:34
2	Sn 189.927†	21.2	4.4	0.7202 ug/L	0.7202 ppb	17:22:34
2	Ti 334.940†	-1776.9	-153.9	-0.2301 ug/L	-0.2301 ppb	17:22:14
2	Tl 190.801†	-47.6	-6.3	-1.7932 ug/L	-1.7932 ppb	17:22:34
2	U 409.014†	-4280.7	-128.4	-4.1725 ug/L	-4.1725 ppb	17:22:14
2	V 292.402†	-1680.1	-40.0	-0.2992 ug/L	-0.2992 ppb	17:22:14
2	Zn 213.857†	702.8	-13.9	-0.1275 ug/L	-0.1275 ppb	17:22:34
2	SiO2†	600.0	91.7	5.8685 ug/L	5.8685 ppb	17:23:10
3	Sc Radial	3736.9	3736.9	94.4 %		17:21:22
3	Y RADIAL	4133.8	4133.8	91.08 %		17:21:22
3	Al 396.153Radial†	-166.3	19.6	17.586 ug/L	17.586 ppb	17:21:22
3	Ca 317.933Radial†	13.7	-1.8	-3.4973 ug/L	-3.4973 ppb	17:21:42
3	Fe 238.204 Radial†	11.1	-0.0	-0.2153 ug/L	-0.2153 ppb	17:21:42
3	K 766.490 Radial†	3193.5	353.5	61.630 ug/L	61.630 ppb	17:21:22
3	Mg 279.077 IEC†	2.2	-1.0	-43.069 ug/L	-43.069 ppb	17:21:42
3	Na 589.592 Radial†	-1509.8	-14.8	-4.2459 ug/L	-4.2459 ppb	17:21:22
3	Sr 421.552†	44.2	46.3	0.3131 ug/L	0.3131 ppb	17:21:22
3	Sc 361.383	848450.5	848450.5	98.114 %		17:22:39
3	Y 371.029	669395.6	669395.6	98.139 %		17:22:39
3	Ag 328.068†	416.1	-11.0	-0.0525 ug/L	-0.0525 ppb	17:22:39
3	As 188.979†	-44.3	-9.7	-3.6927 ug/L	-3.6927 ppb	17:22:59
3	B 249.677†	-590.8	4.6	0.0989 ug/L	0.0989 ppb	17:22:39
3	Ba 233.527†	-14.3	3.4	0.0253 ug/L	0.0253 ppb	17:22:59
3	Be 313.107†	-3951.9	-83.8	-0.0288 ug/L	-0.0288 ppb	17:22:39
3	Cd 226.502†	-214.4	-18.9	-0.1967 ug/L	-0.1967 ppb	17:22:59
3	Co 228.616†	-92.0	-7.3	-0.1365 ug/L	-0.1365 ppb	17:22:59
3	Cr 267.716†	83.0	-4.4	-0.0483 ug/L	-0.0483 ppb	17:22:39
3	Cu 324.752†	6911.8	196.3	0.5626 ug/L	0.5626 ppb	17:22:39
3	Mn 257.610†	531.3	49.1	0.0520 ug/L	0.0520 ppb	17:22:59
3	Mo 202.031†	0.7	-2.1	-0.1452 ug/L	-0.1452 ppb	17:22:59
3	Ni 231.604†	74.2	-7.6	-0.1715 ug/L	-0.1715 ppb	17:22:59
3	P 214.914†	225.9	-4.2	-2.2562 ug/L	-2.2562 ppb	17:22:59
3	Pb 220.353†	-79.7	-10.1	-1.0980 ug/L	-1.0980 ppb	17:22:59
3	S 181.975 Axial†	51.6	0.7	0.8648 ug/L	0.8648 ppb	17:22:59
3	Sb 206.836†	39.1	4.3	1.3120 ug/L	1.3120 ppb	17:22:59
3	Se 196.026†	-21.1	8.0	4.3262 ug/L	4.3262 ppb	17:22:59
3	Si 251.611†	563.0	84.3	2.5094 ug/L	2.5094 ppb	17:22:59
3	Sn 189.927†	9.9	-7.5	-1.2241 ug/L	-1.2241 ppb	17:22:59
3	Ti 334.940†	-1737.7	-76.5	-0.1152 ug/L	-0.1152 ppb	17:22:39
3	Tl 190.801†	-40.7	1.8	0.5075 ug/L	0.5075 ppb	17:22:59
3	U 409.014†	-4189.1	55.1	1.7896 ug/L	1.7896 ppb	17:22:39
3	V 292.402†	-1715.9	-41.0	-0.2841 ug/L	-0.2841 ppb	17:22:39
3	Zn 213.857†	709.1	-22.4	-0.1913 ug/L	-0.1913 ppb	17:22:59
3	SiO2†	594.7	73.7	4.7092 ug/L	4.7092 ppb	17:23:15

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	839362.0	97.063 %	0.9986			1.03%
Sc Radial	3725.9	94.1 %	0.94			1.00%
Y 371.029	661890.7	97.038 %	1.0056			1.04%
Y RADIAL	4098.2	90.30 %	1.308			1.45%
Ag 328.068†	27.3	0.1274 ug/L	0.21780	0.1274 ppb	0.21780	170.96%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-2.5	-2.2717 ug/L	17.77694	-2.2717 ppb	17.77694	782.55%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.0	1.1481 ug/L	4.29079	1.1481 ppb	4.29079	373.73%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	84.8	1.8009 ug/L	1.54710	1.8009 ppb	1.54710	85.91%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	2.3	0.0168 ug/L	0.00897	0.0168 ppb	0.00897	53.52%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-68.4	-0.0237 ug/L	0.02202	-0.0237 ppb	0.02202	93.04%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-1.4	-2.8084 ug/L	1.50970	-2.8084 ppb	1.50970	53.76%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-15.2	-0.1598 ug/L	0.06404	-0.1598 ppb	0.06404	40.07%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-11.9	-0.2203 ug/L	0.07678	-0.2203 ppb	0.07678	34.84%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-30.8	-0.3278 ug/L	0.35837	-0.3278 ppb	0.35837	109.32%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	156.1	0.4502 ug/L	0.31248	0.4502 ppb	0.31248	69.41%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.4	5.2031 ug/L	32.70720	5.2031 ppb	32.70720	628.60%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	234.9	40.961 ug/L	20.4207	40.961 ppb	20.4207	49.85%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.8	-35.863 ug/L	23.0261	-35.863 ppb	23.0261	64.21%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	77.6	0.0814 ug/L	0.02701	0.0814 ppb	0.02701	33.16%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	2.9	0.1983 ug/L	0.92511	0.1983 ppb	0.92511	466.55%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-14.4	-4.1228 ug/L	1.34300	-4.1228 ppb	1.34300	32.58%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	8.6	0.1961 ug/L	0.36072	0.1961 ppb	0.36072	183.92%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	12.8	6.3861 ug/L	7.86763	6.3861 ppb	7.86763	123.20%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-8.4	-0.9228 ug/L	0.97989	-0.9228 ppb	0.97989	106.18%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	1.2	1.4059 ug/L	2.20440	1.4059 ppb	2.20440	156.80%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	15.7	4.8194 ug/L	3.04049	4.8194 ppb	3.04049	63.09%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	5.4	2.9591 ug/L	1.55863	2.9591 ppb	1.55863	52.67%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	90.8	2.6978 ug/L	0.18344	2.6978 ppb	0.18344	6.80%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-2.8	-0.4541 ug/L	1.03329	-0.4541 ppb	1.03329	227.52%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	20.3	0.1370 ug/L	0.27998	0.1370 ppb	0.27998	204.32%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-98.4	-0.1470 ug/L	0.07257	-0.1470 ppb	0.07257	49.36%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	1.8	0.5026 ug/L	2.29335	0.5026 ppb	2.29335	456.33%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-101.0	-3.2789 ug/L	4.68609	-3.2789 ppb	4.68609	142.92%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-37.0	-0.2614 ug/L	0.05303	-0.2614 ppb	0.05303	20.29%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-21.9	-0.1895 ug/L	0.06115	-0.1895 ppb	0.06115	32.27%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	71.8	4.5804 ug/L	1.35712	4.5804 ppb	1.35712	29.63%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 22
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 2/3/2010 18:21:46
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3691.9	3691.9	93.2 %		18:23:58
1	Y RADIAL	4236.7	4236.7	93.35 %		18:23:38
1	Al 396.153Radial†	5209.7	5783.8	5172.5 ug/L	5172.5 ppb	18:23:38
1	Ca 317.933Radial†	2452.2	2614.0	5182.5 ug/L	5182.5 ppb	18:23:58
1	Fe 238.204 Radial†	406.9	424.6	5072.1 ug/L	5072.1 ppb	18:23:58
1	K 766.490 Radial†	30310.0	29480.3	5133.6 ug/L	5133.6 ppb	18:23:38
1	Mg 279.077 IEC†	111.5	116.3	5060.4 ug/L	5060.4 ppb	18:23:58
1	Na 589.592 Radial†	29084.1	32781.3	9399.5 ug/L	9399.5 ppb	18:23:38
1	Sr 421.552†	66602.6	71438.8	482.57 ug/L	482.57 ppb	18:23:38
1	Sc 361.383	854535.8	854535.8	98.818 %		18:24:56
1	Y 371.029	663750.9	663750.9	97.311 %		18:24:56
1	Ag 328.068†	106000.2	106833.5	488.11 ug/L	488.11 ppb	18:25:01
1	As 188.979†	1214.1	1264.1	486.31 ug/L	486.31 ppb	18:25:21
1	B 249.677†	21570.0	22434.9	474.48 ug/L	474.48 ppb	18:25:01
1	Ba 233.527†	63317.8	64093.5	484.13 ug/L	484.13 ppb	18:25:01
1	Be 313.107†	1395358.9	1416000.0	483.90 ug/L	483.90 ppb	18:24:56
1	Cd 226.502†	45420.2	46163.4	481.44 ug/L	481.44 ppb	18:25:01
1	Co 228.616†	25604.5	25997.2	483.41 ug/L	483.41 ppb	18:25:01
1	Cr 267.716†	44822.8	45270.1	483.56 ug/L	483.56 ppb	18:25:01
1	Cu 324.752†	172105.9	167317.1	480.25 ug/L	480.25 ppb	18:25:01
1	Mn 257.610†	466626.9	471718.2	483.23 ug/L	483.23 ppb	18:24:56
1	Mo 202.031†	6993.1	7073.9	482.41 ug/L	482.41 ppb	18:25:21
1	Ni 231.604†	21180.9	21351.2	484.84 ug/L	484.84 ppb	18:25:01
1	P 214.914†	4848.9	4672.4	2281.7 ug/L	2281.7 ppb	18:25:21
1	Pb 220.353†	4236.9	4358.8	478.49 ug/L	478.49 ppb	18:25:21
1	S 181.975 Axial†	827.5	785.5	949.50 ug/L	949.50 ppb	18:25:21
1	Sb 206.836†	1567.7	1550.9	494.81 ug/L	494.81 ppb	18:25:21
1	Se 196.026†	855.7	895.4	502.19 ug/L	502.19 ppb	18:25:21
1	Si 251.611†	81588.4	82075.2	2436.1 ug/L	2436.1 ppb	18:25:01
1	Sn 189.927†	2956.3	2974.0	483.76 ug/L	483.76 ppb	18:25:21
1	Ti 334.940†	308632.3	314020.1	482.03 ug/L	482.03 ppb	18:25:01
1	Tl 190.801†	1619.0	1681.6	483.83 ug/L	483.83 ppb	18:25:21
1	U 409.014†	10244.1	14691.4	475.13 ug/L	475.13 ppb	18:25:01
1	V 292.402†	66905.1	69413.5	488.24 ug/L	488.24 ppb	18:25:01
1	Zn 213.857†	56689.6	56622.9	480.12 ug/L	480.12 ppb	18:25:01
1	SiO2†	81283.2	81723.4	5202.8 ug/L	5202.8 ppb	18:26:29
2	Sc Radial	3690.7	3690.7	93.2 %		18:24:24
2	Y RADIAL	4155.0	4155.0	91.55 %		18:24:04
2	Al 396.153Radial†	5137.2	5707.9	5104.2 ug/L	5104.2 ppb	18:24:04
2	Ca 317.933Radial†	2433.4	2594.7	5144.3 ug/L	5144.3 ppb	18:24:24
2	Fe 238.204 Radial†	402.6	420.2	5019.2 ug/L	5019.2 ppb	18:24:24
2	K 766.490 Radial†	29914.9	29067.1	5061.6 ug/L	5061.6 ppb	18:24:04
2	Mg 279.077 IEC†	112.8	117.7	5124.0 ug/L	5124.0 ppb	18:24:24
2	Na 589.592 Radial†	28656.8	32333.2	9271.0 ug/L	9271.0 ppb	18:24:04
2	Sr 421.552†	65786.6	70586.9	476.81 ug/L	476.81 ppb	18:24:04
2	Sc 361.383	844089.9	844089.9	97.610 %		18:25:27
2	Y 371.029	655981.1	655981.1	96.172 %		18:25:27
2	Ag 328.068†	106157.0	108321.6	494.85 ug/L	494.85 ppb	18:25:32
2	As 188.979†	1197.6	1262.4	485.68 ug/L	485.68 ppb	18:25:52
2	B 249.677†	21624.2	22760.6	481.39 ug/L	481.39 ppb	18:25:32
2	Ba 233.527†	63290.9	64858.9	489.91 ug/L	489.91 ppb	18:25:32
2	Be 313.107†	1377022.3	1414689.0	483.47 ug/L	483.47 ppb	18:25:27
2	Cd 226.502†	45400.7	46712.2	487.17 ug/L	487.17 ppb	18:25:32
2	Co 228.616†	25626.7	26340.6	489.79 ug/L	489.79 ppb	18:25:32
2	Cr 267.716†	44806.5	45814.8	489.37 ug/L	489.37 ppb	18:25:32
2	Cu 324.752†	172115.6	169482.4	486.45 ug/L	486.45 ppb	18:25:32
2	Mn 257.610†	461213.7	472016.2	483.52 ug/L	483.52 ppb	18:25:27
2	Mo 202.031†	6943.8	7111.0	484.94 ug/L	484.94 ppb	18:25:52
2	Ni 231.604†	21174.5	21609.8	490.71 ug/L	490.71 ppb	18:25:32

2	P 214.914†	4807.3	4690.5	2289.7 ug/L	2289.7 ppb	18:25:52
2	Pb 220.353†	4199.0	4373.0	480.04 ug/L	480.04 ppb	18:25:52
2	S 181.975 Axial†	816.2	784.2	948.01 ug/L	948.01 ppb	18:25:52
2	Sb 206.836†	1576.1	1579.1	503.52 ug/L	503.52 ppb	18:25:52
2	Se 196.026†	836.8	886.8	497.35 ug/L	497.35 ppb	18:25:52
2	Si 251.611†	81730.3	83242.3	2470.8 ug/L	2470.8 ppb	18:25:32
2	Sn 189.927†	2904.5	2957.9	481.14 ug/L	481.14 ppb	18:25:52
2	Ti 334.940†	308809.4	318066.6	488.22 ug/L	488.22 ppb	18:25:32
2	Tl 190.801†	1620.6	1703.5	490.11 ug/L	490.11 ppb	18:25:52
2	U 409.014†	10600.1	15184.5	491.12 ug/L	491.12 ppb	18:25:32
2	V 292.402†	66938.3	70285.5	494.36 ug/L	494.36 ppb	18:25:32
2	Zn 213.857†	56550.2	57190.0	484.93 ug/L	484.93 ppb	18:25:32
2	SiO2†	79977.4	81403.6	5182.3 ug/L	5182.3 ppb	18:26:34
3	Sc Radial	3716.5	3716.5	93.9 %		18:24:49
3	Y RADIAL	4216.5	4216.5	92.91 %		18:24:29
3	Al 396.153Radial†	5260.7	5801.2	5188.2 ug/L	5188.2 ppb	18:24:29
3	Ca 317.933Radial†	2452.7	2597.1	5149.2 ug/L	5149.2 ppb	18:24:49
3	Fe 238.204 Radial†	403.7	418.3	4996.8 ug/L	4996.8 ppb	18:24:49
3	K 766.490 Radial†	30258.7	29210.1	5086.5 ug/L	5086.5 ppb	18:24:29
3	Mg 279.077 IEC†	112.0	116.0	5047.8 ug/L	5047.8 ppb	18:24:49
3	Na 589.592 Radial†	29114.9	32607.3	9349.6 ug/L	9349.6 ppb	18:24:29
3	Sr 421.552†	66874.9	71255.2	481.33 ug/L	481.33 ppb	18:24:29
3	Sc 361.383	860390.5	860390.5	99.495 %		18:25:58
3	Y 371.029	669637.3	669637.3	98.174 %		18:25:58
3	Ag 328.068†	105464.8	105565.4	482.30 ug/L	482.30 ppb	18:26:03
3	As 188.979†	1200.4	1241.9	477.79 ug/L	477.79 ppb	18:26:23
3	B 249.677†	21283.2	21998.1	465.23 ug/L	465.23 ppb	18:26:03
3	Ba 233.527†	62969.6	63307.5	478.19 ug/L	478.19 ppb	18:26:03
3	Be 313.107†	1407064.8	1418156.7	484.62 ug/L	484.62 ppb	18:25:58
3	Cd 226.502†	45110.3	45539.1	474.93 ug/L	474.93 ppb	18:26:03
3	Co 228.616†	25432.3	25647.9	476.92 ug/L	476.92 ppb	18:26:03
3	Cr 267.716†	44536.4	44673.6	477.18 ug/L	477.18 ppb	18:26:03
3	Cu 324.752†	170558.1	164576.2	472.38 ug/L	472.38 ppb	18:26:03
3	Mn 257.610†	469234.2	471125.4	482.61 ug/L	482.61 ppb	18:25:58
3	Mo 202.031†	7027.1	7060.0	481.46 ug/L	481.46 ppb	18:26:23
3	Ni 231.604†	20952.7	20975.9	476.32 ug/L	476.32 ppb	18:26:03
3	P 214.914†	4822.3	4612.3	2252.7 ug/L	2252.7 ppb	18:26:23
3	Pb 220.353†	4265.0	4357.8	478.40 ug/L	478.40 ppb	18:26:23
3	S 181.975 Axial†	831.3	783.6	947.27 ug/L	947.27 ppb	18:26:23
3	Sb 206.836†	1578.3	1550.8	494.65 ug/L	494.65 ppb	18:26:23
3	Se 196.026†	860.6	894.5	501.42 ug/L	501.42 ppb	18:26:23
3	Si 251.611†	80841.9	80763.1	2397.0 ug/L	2397.0 ppb	18:26:03
3	Sn 189.927†	2938.9	2936.2	477.61 ug/L	477.61 ppb	18:26:23
3	Ti 334.940†	306909.0	310162.7	476.11 ug/L	476.11 ppb	18:26:03
3	Tl 190.801†	1618.5	1669.9	480.49 ug/L	480.49 ppb	18:26:23
3	U 409.014†	10386.7	14764.2	477.51 ug/L	477.51 ppb	18:26:03
3	V 292.402†	66578.3	68624.3	482.77 ug/L	482.77 ppb	18:26:03
3	Zn 213.857†	56050.2	55589.9	471.36 ug/L	471.36 ppb	18:26:03
3	SiO2†	80820.7	80698.9	5137.5 ug/L	5137.5 ppb	18:26:39

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	853005.4	98.641 %	0.9549			0.97%
Sc Radial	3699.7	93.4 %	0.37			0.39%
Y 371.029	663123.1	97.219 %	1.0042			1.03%
Y RADIAL	4202.7	92.60 %	0.938			1.01%
Ag 328.068†	106906.8	488.42 ug/L	6.283	488.42 ppb	6.283	1.29%
QC value within limits for Ag 328.068 Recovery = 97.68%						
Al 396.153Radial†	5764.3	5155.0 ug/L	44.67	5155.0 ppb	44.67	0.87%
QC value within limits for Al 396.153Radial Recovery = 103.10%						
As 188.979†	1256.1	483.26 ug/L	4.746	483.26 ppb	4.746	0.98%
QC value within limits for As 188.979 Recovery = 96.65%						
B 249.677†	22397.8	473.70 ug/L	8.108	473.70 ppb	8.108	1.71%
QC value within limits for B 249.677 Recovery = 94.74%						
Ba 233.527†	64086.6	484.08 ug/L	5.858	484.08 ppb	5.858	1.21%
QC value within limits for Ba 233.527 Recovery = 96.82%						
Be 313.107†	1416281.9	484.00 ug/L	0.583	484.00 ppb	0.583	0.12%
QC value within limits for Be 313.107 Recovery = 96.80%						
Ca 317.933Radial†	2601.9	5158.7 ug/L	20.81	5158.7 ppb	20.81	0.40%

QC value within limits for Ca 317.933 Radial Recovery = 103.17%

Cd	226.502†	46138.2	481.18 ug/L	6.127	481.18 ppb	6.127	1.27%
QC value within limits for Cd 226.502 Recovery = 96.24%							
Co	228.616†	25995.2	483.37 ug/L	6.432	483.37 ppb	6.432	1.33%
QC value within limits for Co 228.616 Recovery = 96.67%							
Cr	267.716†	45252.8	483.37 ug/L	6.095	483.37 ppb	6.095	1.26%
QC value within limits for Cr 267.716 Recovery = 96.67%							
Cu	324.752†	167125.2	479.69 ug/L	7.054	479.69 ppb	7.054	1.47%
QC value within limits for Cu 324.752 Recovery = 95.94%							
Fe	238.204 Radial†	421.1	5029.4 ug/L	38.64	5029.4 ppb	38.64	0.77%
QC value within limits for Fe 238.204 Radial Recovery = 100.59%							
K	766.490 Radial†	29252.5	5093.9 ug/L	36.55	5093.9 ppb	36.55	0.72%
QC value within limits for K 766.490 Radial Recovery = 101.88%							
Mg	279.077 IEC†	116.7	5077.4 ug/L	40.86	5077.4 ppb	40.86	0.80%
QC value within limits for Mg 279.077 IEC Recovery = 101.55%							
Mn	257.610†	471619.9	483.12 ug/L	0.465	483.12 ppb	0.465	0.10%
QC value within limits for Mn 257.610 Recovery = 96.62%							
Mo	202.031†	7081.6	482.94 ug/L	1.795	482.94 ppb	1.795	0.37%
QC value within limits for Mo 202.031 Recovery = 96.59%							
Na	589.592 Radial†	32573.9	9340.0 ug/L	64.78	9340.0 ppb	64.78	0.69%
QC value within limits for Na 589.592 Radial Recovery = 93.40%							
Ni	231.604†	21312.3	483.95 ug/L	7.238	483.95 ppb	7.238	1.50%
QC value within limits for Ni 231.604 Recovery = 96.79%							
P	214.914†	4658.4	2274.7 ug/L	19.45	2274.7 ppb	19.45	0.86%
QC value within limits for P 214.914 Recovery = 90.99%							
Pb	220.353†	4363.2	478.98 ug/L	0.920	478.98 ppb	0.920	0.19%
QC value within limits for Pb 220.353 Recovery = 95.80%							
S	181.975 Axial†	784.4	948.26 ug/L	1.134	948.26 ppb	1.134	0.12%
QC value within limits for S 181.975 Axial Recovery = 94.83%							
Sb	206.836†	1560.3	497.66 ug/L	5.073	497.66 ppb	5.073	1.02%
QC value within limits for Sb 206.836 Recovery = 99.53%							
Se	196.026†	892.2	500.32 ug/L	2.603	500.32 ppb	2.603	0.52%
QC value within limits for Se 196.026 Recovery = 100.06%							
Si	251.611†	82026.8	2434.6 ug/L	36.88	2434.6 ppb	36.88	1.51%
QC value within limits for Si 251.611 Recovery = 97.39%							
Sn	189.927†	2956.1	480.84 ug/L	3.086	480.84 ppb	3.086	0.64%
QC value within limits for Sn 189.927 Recovery = 96.17%							
Sr	421.552†	71093.6	480.23 ug/L	3.029	480.23 ppb	3.029	0.63%
QC value within limits for Sr 421.552 Recovery = 96.05%							
Ti	334.940†	314083.1	482.12 ug/L	6.060	482.12 ppb	6.060	1.26%
QC value within limits for Ti 334.940 Recovery = 96.42%							
Tl	190.801†	1685.0	484.81 ug/L	4.884	484.81 ppb	4.884	1.01%
QC value within limits for Tl 190.801 Recovery = 96.96%							
U	409.014†	14880.0	481.26 ug/L	8.629	481.26 ppb	8.629	1.79%
QC value within limits for U 409.014 Recovery = 96.25%							
V	292.402†	69441.1	488.46 ug/L	5.797	488.46 ppb	5.797	1.19%
QC value within limits for V 292.402 Recovery = 97.69%							
Zn	213.857†	56467.6	478.81 ug/L	6.883	478.81 ppb	6.883	1.44%
QC value within limits for Zn 213.857 Recovery = 95.76%							
SiO2†		81275.3	5174.2 ug/L	33.43	5174.2 ppb	33.43	0.65%
QC value within limits for SiO2 Recovery = 96.76%							

All analyte(s) passed QC.

Sequence No.: 23

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/3/2010 18:28:48

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3773.1	3773.1	95.3	%		18:31:01
1	Y RADIAL	4139.5	4139.5	91.21	%		18:30:41
1	Al 396.153Radial†	-209.1	-23.7	-21.333	ug/L	-21.333 ppb	18:30:41
1	Ca 317.933Radial†	18.4	3.1	6.1138	ug/L	6.1138 ppb	18:31:01
1	Fe 238.204 Radial†	10.5	-0.8	-9.9333	ug/L	-9.9333 ppb	18:31:01
1	K 766.490 Radial†	3037.0	156.7	27.311	ug/L	27.311 ppb	18:30:41
1	Mg 279.077 IEC†	4.0	0.9	40.375	ug/L	40.375 ppb	18:31:01
1	Na 589.592 Radial†	-1408.4	106.9	30.663	ug/L	30.663 ppb	18:30:41
1	Sr 421.552†	7.5	7.5	0.0505	ug/L	0.0505 ppb	18:30:41
1	Sc 361.383	824245.5	824245.5	95.315	%		18:31:58
1	Y 371.029	648674.5	648674.5	95.101	%		18:31:58
1	Ag 328.068†	462.2	49.8	0.2236	ug/L	0.2236 ppb	18:31:58
1	As 188.979†	-34.1	-0.3	-0.1288	ug/L	-0.1288 ppb	18:32:18
1	B 249.677†	-532.4	48.2	1.0260	ug/L	1.0260 ppb	18:31:58
1	Ba 233.527†	-23.8	-6.9	-0.0555	ug/L	-0.0555 ppb	18:32:18
1	Be 313.107†	-3855.9	-101.4	-0.0346	ug/L	-0.0346 ppb	18:31:58
1	Cd 226.502†	-202.8	-13.1	-0.1372	ug/L	-0.1372 ppb	18:32:18
1	Co 228.616†	-75.6	7.1	0.1344	ug/L	0.1344 ppb	18:32:18
1	Cr 267.716†	109.2	25.5	0.2735	ug/L	0.2735 ppb	18:31:58
1	Cu 324.752†	6940.9	433.8	1.2491	ug/L	1.2491 ppb	18:31:58
1	Mn 257.610†	540.1	74.2	0.0733	ug/L	0.0733 ppb	18:32:18
1	Mo 202.031†	16.9	14.9	1.0126	ug/L	1.0126 ppb	18:32:18
1	Ni 231.604†	94.6	16.0	0.3634	ug/L	0.3634 ppb	18:32:18
1	P 214.914†	224.1	0.7	0.0857	ug/L	0.0857 ppb	18:32:18
1	Pb 220.353†	-74.6	-7.1	-0.7782	ug/L	-0.7782 ppb	18:32:18
1	S 181.975 Axial†	52.4	3.1	3.7094	ug/L	3.7094 ppb	18:32:18
1	Sb 206.836†	38.7	5.1	1.5707	ug/L	1.5707 ppb	18:32:18
1	Se 196.026†	-22.8	5.6	3.0258	ug/L	3.0258 ppb	18:32:18
1	Si 251.611†	549.6	87.1	2.5780	ug/L	2.5780 ppb	18:32:18
1	Sn 189.927†	13.5	-3.4	-0.5580	ug/L	-0.5580 ppb	18:32:18
1	Ti 334.940†	-1623.8	-9.1	-0.0129	ug/L	-0.0129 ppb	18:31:58
1	Tl 190.801†	-40.0	1.2	0.3528	ug/L	0.3528 ppb	18:32:18
1	U 409.014†	-4365.2	-255.0	-8.2738	ug/L	-8.2738 ppb	18:31:58
1	V 292.402†	-1824.6	-206.4	-1.4324	ug/L	-1.4324 ppb	18:31:58
1	Zn 213.857†	725.7	16.2	0.1359	ug/L	0.1359 ppb	18:32:18
1	SiO2†	571.4	67.1	4.2555	ug/L	4.2555 ppb	18:33:14
2	Sc Radial	3781.3	3781.3	95.5	%		18:31:26
2	Y RADIAL	4071.5	4071.5	89.71	%		18:31:06
2	Al 396.153Radial†	-191.5	-4.7	-4.2772	ug/L	-4.2772 ppb	18:31:06
2	Ca 317.933Radial†	18.1	2.7	5.3844	ug/L	5.3844 ppb	18:31:26
2	Fe 238.204 Radial†	11.2	-0.0	-0.5662	ug/L	-0.5662 ppb	18:31:26
2	K 766.490 Radial†	3172.6	291.8	50.880	ug/L	50.880 ppb	18:31:06
2	Mg 279.077 IEC†	3.7	0.6	25.911	ug/L	25.911 ppb	18:31:26
2	Na 589.592 Radial†	-1545.6	-33.5	-9.6054	ug/L	-9.6054 ppb	18:31:06
2	Sr 421.552†	-5.1	-5.7	-0.0388	ug/L	-0.0388 ppb	18:31:06
2	Sc 361.383	788892.2	788892.2	91.227	%		18:32:23
2	Y 371.029	622657.4	622657.4	91.286	%		18:32:23
2	Ag 328.068†	466.4	76.2	0.3474	ug/L	0.3474 ppb	18:32:23
2	As 188.979†	-23.6	9.6	3.6672	ug/L	3.6672 ppb	18:32:43
2	B 249.677†	-550.5	3.4	0.0727	ug/L	0.0727 ppb	18:32:23
2	Ba 233.527†	-1.4	16.5	0.1214	ug/L	0.1214 ppb	18:32:43
2	Be 313.107†	-3856.0	-282.7	-0.0967	ug/L	-0.0967 ppb	18:32:23
2	Cd 226.502†	-196.3	-15.6	-0.1642	ug/L	-0.1642 ppb	18:32:43
2	Co 228.616†	-93.4	-16.0	-0.2954	ug/L	-0.2954 ppb	18:32:43
2	Cr 267.716†	71.8	-10.3	-0.1081	ug/L	-0.1081 ppb	18:32:23
2	Cu 324.752†	6775.4	578.7	1.6662	ug/L	1.6662 ppb	18:32:23
2	Mn 257.610†	528.2	86.6	0.0875	ug/L	0.0875 ppb	18:32:43
2	Mo 202.031†	10.6	8.8	0.5962	ug/L	0.5962 ppb	18:32:43
2	Ni 231.604†	92.1	17.8	0.4045	ug/L	0.4045 ppb	18:32:43

2	P 214.914†	234.1	22.1	10.916 ug/L	10.916 ppb	18:32:43
2	Pb 220.353†	-63.5	1.6	0.1725 ug/L	0.1725 ppb	18:32:43
2	S 181.975 Axial†	47.5	0.1	0.1097 ug/L	0.1097 ppb	18:32:43
2	Sb 206.836†	44.3	13.0	4.0009 ug/L	4.0009 ppb	18:32:43
2	Se 196.026†	-25.6	1.4	0.7681 ug/L	0.7681 ppb	18:32:43
2	Si 251.611†	547.9	111.1	3.2977 ug/L	3.2977 ppb	18:32:43
2	Sn 189.927†	14.7	-1.6	-0.2523 ug/L	-0.2523 ppb	18:32:43
2	Ti 334.940†	-1635.0	-97.6	-0.1472 ug/L	-0.1472 ppb	18:32:23
2	Tl 190.801†	-41.4	-2.1	-0.6051 ug/L	-0.6051 ppb	18:32:43
2	U 409.014†	-4203.4	-282.9	-9.1813 ug/L	-9.1813 ppb	18:32:23
2	V 292.402†	-1736.5	-195.7	-1.3668 ug/L	-1.3668 ppb	18:32:23
2	Zn 213.857†	729.1	54.1	0.4578 ug/L	0.4578 ppb	18:32:43
2	SiO2†	571.6	94.1	5.9893 ug/L	5.9893 ppb	18:33:19
3	Sc Radial	3664.3	3664.3	92.5 %		18:31:51
3	Y RADIAL	4046.2	4046.2	89.15 %		18:31:31
3	Al 396.153Radial†	-199.8	-20.1	-18.078 ug/L	-18.078 ppb	18:31:31
3	Ca 317.933Radial†	13.1	-2.1	-4.1067 ug/L	-4.1067 ppb	18:31:51
3	Fe 238.204 Radial†	12.5	1.7	20.298 ug/L	20.298 ppb	18:31:51
3	K 766.490 Radial†	3076.0	293.6	51.186 ug/L	51.186 ppb	18:31:31
3	Mg 279.077 IEC†	2.5	-0.6	-27.044 ug/L	-27.044 ppb	18:31:51
3	Na 589.592 Radial†	-1495.8	-31.4	-9.0000 ug/L	-9.0000 ppb	18:31:31
3	Sr 421.552†	16.0	16.8	0.1136 ug/L	0.1136 ppb	18:31:31
3	Sc 361.383	836096.7	836096.7	96.685 %		18:32:49
3	Y 371.029	659523.2	659523.2	96.691 %		18:32:49
3	Ag 328.068†	541.6	125.1	0.5737 ug/L	0.5737 ppb	18:32:49
3	As 188.979†	-30.6	3.8	1.4652 ug/L	1.4652 ppb	18:33:09
3	B 249.677†	-520.4	68.5	1.4534 ug/L	1.4534 ppb	18:32:49
3	Ba 233.527†	-1.5	16.5	0.1239 ug/L	0.1239 ppb	18:33:09
3	Be 313.107†	-3851.8	-39.8	-0.0139 ug/L	-0.0139 ppb	18:32:49
3	Cd 226.502†	-199.3	-6.5	-0.0699 ug/L	-0.0699 ppb	18:33:09
3	Co 228.616†	-88.7	-5.3	-0.0970 ug/L	-0.0970 ppb	18:33:09
3	Cr 267.716†	132.0	47.4	0.5063 ug/L	0.5063 ppb	18:32:49
3	Cu 324.752†	6836.6	222.7	0.6411 ug/L	0.6411 ppb	18:32:49
3	Mn 257.610†	573.1	100.3	0.1058 ug/L	0.1058 ppb	18:33:09
3	Mo 202.031†	14.2	11.8	0.8087 ug/L	0.8087 ppb	18:33:09
3	Ni 231.604†	83.8	3.5	0.0801 ug/L	0.0801 ppb	18:33:09
3	P 214.914†	237.6	11.3	5.5841 ug/L	5.5841 ppb	18:33:09
3	Pb 220.353†	-90.1	-22.0	-2.4143 ug/L	-2.4143 ppb	18:33:09
3	S 181.975 Axial†	50.2	0.0	0.0227 ug/L	0.0227 ppb	18:33:09
3	Sb 206.836†	33.7	-0.7	-0.2011 ug/L	-0.2011 ppb	18:33:09
3	Se 196.026†	-23.3	5.4	2.9851 ug/L	2.9851 ppb	18:33:09
3	Si 251.611†	535.6	64.4	1.9055 ug/L	1.9055 ppb	18:33:09
3	Sn 189.927†	18.1	1.0	0.1689 ug/L	0.1689 ppb	18:33:09
3	Ti 334.940†	-1731.6	-96.4	-0.1459 ug/L	-0.1459 ppb	18:32:49
3	Tl 190.801†	-46.9	-5.3	-1.5092 ug/L	-1.5092 ppb	18:33:09
3	U 409.014†	-4230.3	-50.5	-1.6432 ug/L	-1.6432 ppb	18:32:49
3	V 292.402†	-1725.1	-76.4	-0.5255 ug/L	-0.5255 ppb	18:32:49
3	Zn 213.857†	731.2	11.2	0.0927 ug/L	0.0927 ppb	18:33:09
3	SiO2†	514.9	0.2	-0.0121 ug/L	-0.0121 ppb	18:33:24

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	816411.5	94.409 %	2.8399			3.01%
Sc Radial	3739.5	94.4 %	1.65			1.75%
Y 371.029	643618.4	94.359 %	2.7776			2.94%
Y RADIAL	4085.7	90.02 %	1.063			1.18%
Ag 328.068†	83.7	0.3816 ug/L	0.17754	0.3816 ppb	0.17754	46.53%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-16.2	-14.563 ug/L	9.0549	-14.563 ppb	9.0549	62.18%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	4.4	1.6679 ug/L	1.90612	1.6679 ppb	1.90612	114.28%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	40.0	0.8507 ug/L	0.70685	0.8507 ppb	0.70685	83.09%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	8.7	0.0633 ug/L	0.10284	0.0633 ppb	0.10284	162.53%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-141.3	-0.0484 ug/L	0.04311	-0.0484 ppb	0.04311	89.04%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.2	2.4638 ug/L	5.70190	2.4638 ppb	5.70190	231.42%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-11.7	-0.1238 ug/L	0.04856	-0.1238 ppb	0.04856	39.24%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-4.7	-0.0860 ug/L	0.21512	-0.0860 ppb	0.21512	250.14%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	20.9	0.2239 ug/L	0.31018	0.2239 ppb	0.31018	138.53%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	411.7	1.1855 ug/L	0.51547	1.1855 ppb	0.51547	43.48%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.3	3.2662 ug/L	15.47582	3.2662 ppb	15.47582	473.81%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	247.4	43.126 ug/L	13.6966	43.126 ppb	13.6966	31.76%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.3	13.081 ug/L	35.4937	13.081 ppb	35.4937	271.34%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	87.0	0.0889 ug/L	0.01627	0.0889 ppb	0.01627	18.30%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	11.8	0.8058 ug/L	0.20819	0.8058 ppb	0.20819	25.84%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	14.0	4.0190 ug/L	23.07596	4.0190 ppb	23.07596	574.17%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	12.4	0.2827 ug/L	0.17667	0.2827 ppb	0.17667	62.50%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	11.4	5.5285 ug/L	5.41531	5.5285 ppb	5.41531	97.95%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-9.2	-1.0067 ug/L	1.30848	-1.0067 ppb	1.30848	129.98%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	1.1	1.2806 ug/L	2.10388	1.2806 ppb	2.10388	164.29%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	5.8	1.7902 ug/L	2.10954	1.7902 ppb	2.10954	117.84%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	4.1	2.2596 ug/L	1.29191	2.2596 ppb	1.29191	57.17%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	87.5	2.5937 ug/L	0.69624	2.5937 ppb	0.69624	26.84%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-1.3	-0.2138 ug/L	0.36499	-0.2138 ppb	0.36499	170.73%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	6.2	0.0418 ug/L	0.07659	0.0418 ppb	0.07659	183.38%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-67.7	-0.1020 ug/L	0.07717	-0.1020 ppb	0.07717	75.68%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-2.1	-0.5872 ug/L	0.93115	-0.5872 ppb	0.93115	158.58%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-196.1	-6.3661 ug/L	4.11521	-6.3661 ppb	4.11521	64.64%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-159.5	-1.1082 ug/L	0.50570	-1.1082 ppb	0.50570	45.63%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	27.2	0.2288 ug/L	0.19953	0.2288 ppb	0.19953	87.21%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	53.8	3.4109 ug/L	3.08855	3.4109 ppb	3.08855	90.55%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 33

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/3/2010 19:37:40

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Conc. Units	Sample	Analysis Time
1	Sc Radial	3690.7	3690.7	93.2 %				19:39:53
1	Y RADIAL	4024.1	4024.1	88.67 %				19:39:33
1	Al 396.153Radial†	5161.5	5733.9	5127.2 ug/L		5127.2 ppb		19:39:33
1	Ca 317.933Radial†	2470.0	2634.0	5222.2 ug/L		5222.2 ppb		19:39:53
1	Fe 238.204 Radial†	405.4	423.1	5054.2 ug/L		5054.2 ppb		19:39:53
1	K 766.490 Radial†	29498.8	28620.4	4983.8 ug/L		4983.8 ppb		19:39:33
1	Mg 279.077 IEC†	109.1	113.8	4950.1 ug/L		4950.1 ppb		19:39:53
1	Na 589.592 Radial†	27455.0	31043.3	8901.2 ug/L		8901.2 ppb		19:39:33
1	Sr 421.552†	64593.8	69306.2	468.16 ug/L		468.16 ppb		19:39:33
1	Sc 361.383	842055.9	842055.9	97.374 %				19:40:52
1	Y 371.029	654538.4	654538.4	95.960 %				19:40:52
1	Ag 328.068†	105252.0	107654.9	491.85 ug/L		491.85 ppb		19:40:52
1	As 188.979†	1207.3	1275.3	490.70 ug/L		490.70 ppb		19:41:12
1	B 249.677†	21415.8	22600.1	478.00 ug/L		478.00 ppb		19:40:52
1	Ba 233.527†	63051.8	64770.0	489.24 ug/L		489.24 ppb		19:40:52
1	Be 313.107†	1395297.5	1436864.6	491.05 ug/L		491.05 ppb		19:40:52
1	Cd 226.502†	45263.0	46683.1	486.86 ug/L		486.86 ppb		19:40:52
1	Co 228.616†	25200.1	25966.0	482.82 ug/L		482.82 ppb		19:41:12
1	Cr 267.716†	44812.7	45932.0	490.63 ug/L		490.63 ppb		19:40:52
1	Cu 324.752†	172342.7	170141.5	488.36 ug/L		488.36 ppb		19:40:52
1	Mn 257.610†	464729.1	476767.7	488.40 ug/L		488.40 ppb		19:40:52
1	Mo 202.031†	7046.2	7233.4	493.28 ug/L		493.28 ppb		19:41:12
1	Ni 231.604†	20938.1	21419.4	486.39 ug/L		486.39 ppb		19:41:12
1	P 214.914†	4862.9	4759.6	2324.5 ug/L		2324.5 ppb		19:41:12
1	Pb 220.353†	4300.2	4487.4	492.58 ug/L		492.58 ppb		19:41:12
1	S 181.975 Axial†	823.2	793.4	959.14 ug/L		959.14 ppb		19:41:12
1	Sb 206.836†	1571.3	1578.2	503.50 ug/L		503.50 ppb		19:41:12
1	Se 196.026†	844.7	897.0	503.01 ug/L		503.01 ppb		19:41:12
1	Si 251.611†	81108.9	82806.4	2457.7 ug/L		2457.7 ppb		19:40:52
1	Sn 189.927†	2956.9	3019.0	491.06 ug/L		491.06 ppb		19:41:12
1	Ti 334.940†	314649.1	324828.0	498.64 ug/L		498.64 ppb		19:40:52
1	Tl 190.801†	1638.4	1725.8	496.62 ug/L		496.62 ppb		19:41:12
1	U 409.014†	10027.1	14622.3	472.87 ug/L		472.87 ppb		19:40:52
1	V 292.402†	66651.0	70156.0	493.52 ug/L		493.52 ppb		19:40:52
1	Zn 213.857†	56160.9	56930.1	482.73 ug/L		482.73 ppb		19:40:52
1	SiO2†	80692.6	82336.0	5241.6 ug/L		5241.6 ppb		19:42:12
2	Sc Radial	3668.6	3668.6	92.6 %				19:40:18
2	Y RADIAL	4141.0	4141.0	91.24 %				19:39:58
2	Al 396.153Radial†	5202.6	5811.6	5196.9 ug/L		5196.9 ppb		19:39:58
2	Ca 317.933Radial†	2446.9	2625.0	5204.4 ug/L		5204.4 ppb		19:40:18
2	Fe 238.204 Radial†	404.4	424.7	5072.5 ug/L		5072.5 ppb		19:40:18
2	K 766.490 Radial†	29956.5	29304.9	5103.1 ug/L		5103.1 ppb		19:39:58
2	Mg 279.077 IEC†	109.2	114.6	4986.4 ug/L		4986.4 ppb		19:40:18
2	Na 589.592 Radial†	27886.0	31685.8	9085.4 ug/L		9085.4 ppb		19:39:58
2	Sr 421.552†	65558.1	70764.1	478.01 ug/L		478.01 ppb		19:39:58
2	Sc 361.383	846028.4	846028.4	97.834 %				19:41:19
2	Y 371.029	658588.9	658588.9	96.554 %				19:41:19
2	Ag 328.068†	105381.2	107279.4	490.15 ug/L		490.15 ppb		19:41:19
2	As 188.979†	1219.9	1282.3	493.37 ug/L		493.37 ppb		19:41:39
2	B 249.677†	21395.9	22476.4	475.36 ug/L		475.36 ppb		19:41:19
2	Ba 233.527†	63205.0	64622.6	488.12 ug/L		488.12 ppb		19:41:19
2	Be 313.107†	1399865.7	1434805.7	490.35 ug/L		490.35 ppb		19:41:19
2	Cd 226.502†	45200.8	46401.3	483.92 ug/L		483.92 ppb		19:41:19
2	Co 228.616†	25397.7	26046.5	484.32 ug/L		484.32 ppb		19:41:39
2	Cr 267.716†	44727.9	45629.2	487.39 ug/L		487.39 ppb		19:41:19
2	Cu 324.752†	172581.7	169554.7	486.67 ug/L		486.67 ppb		19:41:19
2	Mn 257.610†	465193.2	475001.1	486.59 ug/L		486.59 ppb		19:41:19
2	Mo 202.031†	7104.0	7258.5	494.99 ug/L		494.99 ppb		19:41:39
2	Ni 231.604†	21051.1	21434.1	486.72 ug/L		486.72 ppb		19:41:39

2	P 214.914†	4887.9	4761.7	2325.9 ug/L	2325.9 ppb	19:41:39
2	Pb 220.353†	4326.8	4493.7	493.29 ug/L	493.29 ppb	19:41:39
2	S 181.975 Axial†	830.3	796.7	963.10 ug/L	963.10 ppb	19:41:39
2	Sb 206.836†	1581.0	1580.4	504.21 ug/L	504.21 ppb	19:41:39
2	Se 196.026†	848.8	897.1	503.15 ug/L	503.15 ppb	19:41:39
2	Si 251.611†	81036.2	82341.0	2443.8 ug/L	2443.8 ppb	19:41:19
2	Sn 189.927†	2962.3	3010.3	489.65 ug/L	489.65 ppb	19:41:39
2	Ti 334.940†	315106.6	323778.3	497.02 ug/L	497.02 ppb	19:41:19
2	Tl 190.801†	1626.0	1705.2	490.70 ug/L	490.70 ppb	19:41:39
2	U 409.014†	10001.0	14547.2	470.44 ug/L	470.44 ppb	19:41:19
2	V 292.402†	66771.5	69957.8	492.17 ug/L	492.17 ppb	19:41:19
2	Zn 213.857†	56236.6	56736.7	481.08 ug/L	481.08 ppb	19:41:19
2	SiO2†	81911.8	83193.1	5296.3 ug/L	5296.3 ppb	19:42:17
3	Sc Radial	3669.4	3669.4	92.7 %		19:40:43
3	Y RADIAL	4105.8	4105.8	90.47 %		19:40:23
3	Al 396.153Radial†	5203.2	5811.0	5196.3 ug/L	5196.3 ppb	19:40:23
3	Ca 317.933Radial†	2452.6	2630.5	5215.4 ug/L	5215.4 ppb	19:40:43
3	Fe 238.204 Radial†	400.2	420.0	5017.2 ug/L	5017.2 ppb	19:40:43
3	K 766.490 Radial†	29912.8	29250.5	5093.6 ug/L	5093.6 ppb	19:40:23
3	Mg 279.077 IEC†	112.3	117.9	5130.8 ug/L	5130.8 ppb	19:40:43
3	Na 589.592 Radial†	27937.5	31734.7	9099.4 ug/L	9099.4 ppb	19:40:23
3	Sr 421.552†	65539.6	70728.5	477.77 ug/L	477.77 ppb	19:40:23
3	Sc 361.383	842592.4	842592.4	97.436 %		19:41:46
3	Y 371.029	655910.2	655910.2	96.162 %		19:41:46
3	Ag 328.068†	104921.7	107247.1	489.98 ug/L	489.98 ppb	19:41:46
3	As 188.979†	1207.7	1274.9	490.51 ug/L	490.51 ppb	19:42:06
3	B 249.677†	21355.9	22524.6	476.39 ug/L	476.39 ppb	19:41:46
3	Ba 233.527†	63014.1	64690.0	488.63 ug/L	488.63 ppb	19:41:46
3	Be 313.107†	1393195.1	1433794.7	490.00 ug/L	490.00 ppb	19:41:46
3	Cd 226.502†	45197.4	46586.2	485.85 ug/L	485.85 ppb	19:41:46
3	Co 228.616†	25412.6	26167.6	486.58 ug/L	486.58 ppb	19:42:06
3	Cr 267.716†	44622.7	45707.7	488.23 ug/L	488.23 ppb	19:41:46
3	Cu 324.752†	171534.0	169198.9	485.65 ug/L	485.65 ppb	19:41:46
3	Mn 257.610†	463904.6	475617.6	487.21 ug/L	487.21 ppb	19:41:46
3	Mo 202.031†	7097.3	7281.3	496.54 ug/L	496.54 ppb	19:42:06
3	Ni 231.604†	21076.6	21548.0	489.31 ug/L	489.31 ppb	19:42:06
3	P 214.914†	4894.3	4788.6	2339.8 ug/L	2339.8 ppb	19:42:06
3	Pb 220.353†	4314.5	4499.2	493.89 ug/L	493.89 ppb	19:42:06
3	S 181.975 Axial†	832.6	802.6	970.17 ug/L	970.17 ppb	19:42:06
3	Sb 206.836†	1597.5	1604.0	511.52 ug/L	511.52 ppb	19:42:06
3	Se 196.026†	854.1	906.1	507.82 ug/L	507.82 ppb	19:42:06
3	Si 251.611†	80730.9	82365.4	2444.5 ug/L	2444.5 ppb	19:41:46
3	Sn 189.927†	2955.7	3015.9	490.55 ug/L	490.55 ppb	19:42:06
3	Ti 334.940†	313746.3	323695.7	496.88 ug/L	496.88 ppb	19:41:46
3	Tl 190.801†	1634.5	1720.8	495.15 ug/L	495.15 ppb	19:42:06
3	U 409.014†	10059.3	14648.7	473.74 ug/L	473.74 ppb	19:41:46
3	V 292.402†	66579.9	70039.5	492.77 ug/L	492.77 ppb	19:41:46
3	Zn 213.857†	56233.1	56967.5	483.04 ug/L	483.04 ppb	19:41:46
3	SiO2†	81522.4	83134.9	5292.5 ug/L	5292.5 ppb	19:42:22

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	843558.9	97.548 %	0.2493			0.26%
Sc Radial	3676.3	92.8 %	0.32			0.34%
Y 371.029	656345.8	96.225 %	0.3020			0.31%
Y RADIAL	4090.3	90.13 %	1.322			1.47%
Ag 328.068†	107393.8	490.66 ug/L	1.034	490.66 ppb	1.034	0.21%
QC value within limits for Ag 328.068 Recovery = 98.13%						
Al 396.153Radial†	5785.5	5173.4 ug/L	40.09	5173.4 ppb	40.09	0.78%
QC value within limits for Al 396.153Radial Recovery = 103.47%						
As 188.979†	1277.5	491.53 ug/L	1.599	491.53 ppb	1.599	0.33%
QC value within limits for As 188.979 Recovery = 98.31%						
B 249.677†	22533.7	476.58 ug/L	1.328	476.58 ppb	1.328	0.28%
QC value within limits for B 249.677 Recovery = 95.32%						
Ba 233.527†	64694.2	488.66 ug/L	0.557	488.66 ppb	0.557	0.11%
QC value within limits for Ba 233.527 Recovery = 97.73%						
Be 313.107†	1435155.0	490.47 ug/L	0.536	490.47 ppb	0.536	0.11%
QC value within limits for Be 313.107 Recovery = 98.09%						
Ca 317.933Radial†	2629.8	5214.0 ug/L	8.97	5214.0 ppb	8.97	0.17%

QC value within limits for Ca 317.933 Radial Recovery = 104.28%

Cd 226.502†	46556.9	485.54 ug/L	1.495	485.54 ppb	1.495	0.31%
QC value within limits for Cd 226.502 Recovery = 97.11%						
Co 228.616†	26060.0	484.57 ug/L	1.893	484.57 ppb	1.893	0.39%
QC value within limits for Co 228.616 Recovery = 96.91%						
Cr 267.716†	45756.3	488.75 ug/L	1.677	488.75 ppb	1.677	0.34%
QC value within limits for Cr 267.716 Recovery = 97.75%						
Cu 324.752†	169631.7	486.89 ug/L	1.367	486.89 ppb	1.367	0.28%
QC value within limits for Cu 324.752 Recovery = 97.38%						
Fe 238.204 Radial†	422.6	5048.0 ug/L	28.18	5048.0 ppb	28.18	0.56%
QC value within limits for Fe 238.204 Radial Recovery = 100.96%						
K 766.490 Radial†	29058.6	5060.2 ug/L	66.30	5060.2 ppb	66.30	1.31%
QC value within limits for K 766.490 Radial Recovery = 101.20%						
Mg 279.077 IEC†	115.4	5022.5 ug/L	95.60	5022.5 ppb	95.60	1.90%
QC value within limits for Mg 279.077 IEC Recovery = 100.45%						
Mn 257.610†	475795.5	487.40 ug/L	0.919	487.40 ppb	0.919	0.19%
QC value within limits for Mn 257.610 Recovery = 97.48%						
Mo 202.031†	7257.7	494.93 ug/L	1.630	494.93 ppb	1.630	0.33%
QC value within limits for Mo 202.031 Recovery = 98.99%						
Na 589.592 Radial†	31487.9	9028.7 ug/L	110.64	9028.7 ppb	110.64	1.23%
QC value within limits for Na 589.592 Radial Recovery = 90.29%						
Ni 231.604†	21467.2	487.47 ug/L	1.598	487.47 ppb	1.598	0.33%
QC value within limits for Ni 231.604 Recovery = 97.49%						
P 214.914†	4769.9	2330.0 ug/L	8.47	2330.0 ppb	8.47	0.36%
QC value within limits for P 214.914 Recovery = 93.20%						
Pb 220.353†	4493.4	493.25 ug/L	0.660	493.25 ppb	0.660	0.13%
QC value within limits for Pb 220.353 Recovery = 98.65%						
S 181.975 Axial†	797.6	964.14 ug/L	5.587	964.14 ppb	5.587	0.58%
QC value within limits for S 181.975 Axial Recovery = 96.41%						
Sb 206.836†	1587.5	506.41 ug/L	4.442	506.41 ppb	4.442	0.88%
QC value within limits for Sb 206.836 Recovery = 101.28%						
Se 196.026†	900.1	504.66 ug/L	2.737	504.66 ppb	2.737	0.54%
QC value within limits for Se 196.026 Recovery = 100.93%						
Si 251.611†	82504.3	2448.7 ug/L	7.81	2448.7 ppb	7.81	0.32%
QC value within limits for Si 251.611 Recovery = 97.95%						
Sn 189.927†	3015.1	490.42 ug/L	0.716	490.42 ppb	0.716	0.15%
QC value within limits for Sn 189.927 Recovery = 98.08%						
Sr 421.552†	70266.3	474.64 ug/L	5.618	474.64 ppb	5.618	1.18%
QC value within limits for Sr 421.552 Recovery = 94.93%						
Ti 334.940†	324100.7	497.51 ug/L	0.975	497.51 ppb	0.975	0.20%
QC value within limits for Ti 334.940 Recovery = 99.50%						
Tl 190.801†	1717.2	494.16 ug/L	3.081	494.16 ppb	3.081	0.62%
QC value within limits for Tl 190.801 Recovery = 98.83%						
U 409.014†	14606.1	472.35 ug/L	1.709	472.35 ppb	1.709	0.36%
QC value within limits for U 409.014 Recovery = 94.47%						
V 292.402†	70051.1	492.82 ug/L	0.679	492.82 ppb	0.679	0.14%
QC value within limits for V 292.402 Recovery = 98.56%						
Zn 213.857†	56878.1	482.28 ug/L	1.057	482.28 ppb	1.057	0.22%
QC value within limits for Zn 213.857 Recovery = 96.46%						
SiO2†	82888.0	5276.8 ug/L	30.53	5276.8 ppb	30.53	0.58%
QC value within limits for SiO2 Recovery = 98.68%						

All analyte(s) passed QC.

Sequence No.: 34

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/3/2010 19:44:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3707.5	3707.5	93.6 %		19:46:45
1	Y RADIAL	4162.2	4162.2	91.71 %		19:46:25
1	Al 396.153Radial†	-179.3	4.3	3.8000 ug/L	3.8000 ppb	19:46:25
1	Ca 317.933Radial†	15.7	0.5	0.9405 ug/L	0.9405 ppb	19:46:45
1	Fe 238.204 Radial†	12.1	1.1	13.068 ug/L	13.068 ppb	19:46:45
1	K 766.490 Radial†	3101.2	281.7	49.119 ug/L	49.119 ppb	19:46:25
1	Mg 279.077 IEC†	0.4	-2.9	-125.07 ug/L	-125.07 ppb	19:46:45
1	Na 589.592 Radial†	-1572.8	-94.8	-27.175 ug/L	-27.175 ppb	19:46:25
1	Sr 421.552†	-24.6	-26.7	-0.1807 ug/L	-0.1807 ppb	19:46:25
1	Sc 361.383	851426.8	851426.8	98.458 %		19:47:42
1	Y 371.029	670972.5	670972.5	98.370 %		19:47:42
1	Ag 328.068†	469.0	41.2	0.1916 ug/L	0.1916 ppb	19:47:42
1	As 188.979†	-22.6	12.5	4.7703 ug/L	4.7703 ppb	19:48:02
1	B 249.677†	-402.5	198.0	4.2062 ug/L	4.2062 ppb	19:47:42
1	Ba 233.527†	-17.0	0.8	0.0045 ug/L	0.0045 ppb	19:48:02
1	Be 313.107†	-3841.2	42.7	0.0146 ug/L	0.0146 ppb	19:47:42
1	Cd 226.502†	-212.7	-16.4	-0.1735 ug/L	-0.1735 ppb	19:48:02
1	Co 228.616†	-101.8	-17.0	-0.3149 ug/L	-0.3149 ppb	19:48:02
1	Cr 267.716†	115.1	27.9	0.2982 ug/L	0.2982 ppb	19:47:42
1	Cu 324.752†	6805.7	64.0	0.1867 ug/L	0.1867 ppb	19:47:42
1	Mn 257.610†	549.0	65.1	0.0731 ug/L	0.0731 ppb	19:48:02
1	Mo 202.031†	12.7	10.1	0.6895 ug/L	0.6895 ppb	19:48:02
1	Ni 231.604†	86.4	4.6	0.1047 ug/L	0.1047 ppb	19:48:02
1	P 214.914†	226.6	-4.3	-2.2317 ug/L	-2.2317 ppb	19:48:02
1	Pb 220.353†	-70.4	-0.3	-0.0290 ug/L	-0.0290 ppb	19:48:02
1	S 181.975 Axial†	50.7	-0.4	-0.4930 ug/L	-0.4930 ppb	19:48:02
1	Sb 206.836†	41.2	6.3	1.9556 ug/L	1.9556 ppb	19:48:02
1	Se 196.026†	-21.6	7.6	4.1518 ug/L	4.1518 ppb	19:48:02
1	Si 251.611†	546.8	65.9	1.9508 ug/L	1.9508 ppb	19:48:02
1	Sn 189.927†	20.0	2.7	0.4362 ug/L	0.4362 ppb	19:48:02
1	Ti 334.940†	-1663.9	4.6	0.0191 ug/L	0.0191 ppb	19:47:42
1	Tl 190.801†	-36.4	6.2	1.7886 ug/L	1.7886 ppb	19:48:02
1	U 409.014†	-4379.5	-123.3	-4.0035 ug/L	-4.0035 ppb	19:47:42
1	V 292.402†	-1788.2	-108.3	-0.7544 ug/L	-0.7544 ppb	19:47:42
1	Zn 213.857†	733.8	0.2	-0.0007 ug/L	-0.0007 ppb	19:48:02
1	SiO2†	560.1	36.4	2.3044 ug/L	2.3044 ppb	19:48:58
2	Sc Radial	3742.4	3742.4	94.5 %		19:47:10
2	Y RADIAL	4167.8	4167.8	91.83 %		19:46:50
2	Al 396.153Radial†	-196.6	-12.2	-11.007 ug/L	-11.007 ppb	19:46:50
2	Ca 317.933Radial†	17.8	2.6	5.0906 ug/L	5.0906 ppb	19:47:10
2	Fe 238.204 Radial†	9.4	-1.9	-22.330 ug/L	-22.330 ppb	19:47:10
2	K 766.490 Radial†	3121.7	272.5	47.509 ug/L	47.509 ppb	19:46:50
2	Mg 279.077 IEC†	-0.2	-3.5	-153.94 ug/L	-153.94 ppb	19:47:10
2	Na 589.592 Radial†	-1537.3	-41.5	-11.911 ug/L	-11.911 ppb	19:46:50
2	Sr 421.552†	36.7	38.4	0.2594 ug/L	0.2594 ppb	19:46:50
2	Sc 361.383	845623.0	845623.0	97.787 %		19:48:08
2	Y 371.029	667555.1	667555.1	97.869 %		19:48:08
2	Ag 328.068†	475.4	51.0	0.2229 ug/L	0.2229 ppb	19:48:08
2	As 188.979†	-31.4	3.3	1.2610 ug/L	1.2610 ppb	19:48:28
2	B 249.677†	-484.6	111.3	2.3683 ug/L	2.3683 ppb	19:48:08
2	Ba 233.527†	-12.8	4.9	0.0348 ug/L	0.0348 ppb	19:48:28
2	Be 313.107†	-3812.1	45.8	0.0153 ug/L	0.0153 ppb	19:48:08
2	Cd 226.502†	-183.2	12.3	0.1301 ug/L	0.1301 ppb	19:48:28
2	Co 228.616†	-91.7	-7.4	-0.1370 ug/L	-0.1370 ppb	19:48:28
2	Cr 267.716†	93.7	6.8	0.0722 ug/L	0.0722 ppb	19:48:08
2	Cu 324.752†	6877.2	184.5	0.5297 ug/L	0.5297 ppb	19:48:08
2	Mn 257.610†	565.9	86.3	0.0924 ug/L	0.0924 ppb	19:48:28
2	Mo 202.031†	5.1	2.4	0.1622 ug/L	0.1622 ppb	19:48:28
2	Ni 231.604†	95.3	14.3	0.3249 ug/L	0.3249 ppb	19:48:28

2	P 214.914†	227.1	-2.2	-1.2376 ug/L	-1.2376 ppb	19:48:28
2	Pb 220.353†	-83.7	-14.4	-1.5803 ug/L	-1.5803 ppb	19:48:28
2	S 181.975 Axial†	47.8	-3.0	-3.6752 ug/L	-3.6752 ppb	19:48:28
2	Sb 206.836†	33.7	-1.1	-0.3612 ug/L	-0.3612 ppb	19:48:28
2	Se 196.026†	-24.2	4.8	2.5360 ug/L	2.5360 ppb	19:48:28
2	Si 251.611†	535.0	57.6	1.7106 ug/L	1.7106 ppb	19:48:28
2	Sn 189.927†	5.5	-12.0	-1.9455 ug/L	-1.9455 ppb	19:48:28
2	Ti 334.940†	-1747.2	-92.1	-0.1273 ug/L	-0.1273 ppb	19:48:08
2	Tl 190.801†	-37.6	4.8	1.3743 ug/L	1.3743 ppb	19:48:28
2	U 409.014†	-4296.2	-68.7	-2.2275 ug/L	-2.2275 ppb	19:48:08
2	V 292.402†	-1769.0	-101.2	-0.7042 ug/L	-0.7042 ppb	19:48:08
2	Zn 213.857†	718.0	-10.9	-0.0937 ug/L	-0.0937 ppb	19:48:28
2	SiO2†	540.7	20.5	1.3039 ug/L	1.3039 ppb	19:49:03
3	Sc Radial	3779.1	3779.1	95.4 %		19:47:35
3	Y RADIAL	4087.9	4087.9	90.07 %		19:47:15
3	Al 396.153Radial†	-212.3	-26.7	-23.957 ug/L	-23.957 ppb	19:47:15
3	Ca 317.933Radial†	16.7	1.2	2.4353 ug/L	2.4353 ppb	19:47:35
3	Fe 238.204 Radial†	12.6	1.4	16.523 ug/L	16.523 ppb	19:47:35
3	K 766.490 Radial†	3129.8	248.9	43.386 ug/L	43.386 ppb	19:47:15
3	Mg 279.077 IEC†	1.3	-1.9	-82.355 ug/L	-82.355 ppb	19:47:35
3	Na 589.592 Radial†	-1509.8	3.1	0.8908 ug/L	0.8908 ppb	19:47:15
3	Sr 421.552†	-5.6	-6.3	-0.0427 ug/L	-0.0427 ppb	19:47:15
3	Sc 361.383	854690.8	854690.8	98.835 %		19:48:33
3	Y 371.029	674119.4	674119.4	98.831 %		19:48:33
3	Ag 328.068†	365.4	-65.4	-0.2930 ug/L	-0.2930 ppb	19:48:33
3	As 188.979†	-27.2	7.9	3.0309 ug/L	3.0309 ppb	19:48:53
3	B 249.677†	-443.6	158.0	3.3536 ug/L	3.3536 ppb	19:48:33
3	Ba 233.527†	-5.9	12.1	0.0906 ug/L	0.0906 ppb	19:48:53
3	Be 313.107†	-3860.7	37.9	0.0127 ug/L	0.0127 ppb	19:48:33
3	Cd 226.502†	-213.6	-16.5	-0.1742 ug/L	-0.1742 ppb	19:48:53
3	Co 228.616†	-86.1	-0.7	-0.0133 ug/L	-0.0133 ppb	19:48:53
3	Cr 267.716†	83.2	-4.9	-0.0525 ug/L	-0.0525 ppb	19:48:33
3	Cu 324.752†	6823.0	55.1	0.1591 ug/L	0.1591 ppb	19:48:33
3	Mn 257.610†	526.7	40.5	0.0465 ug/L	0.0465 ppb	19:48:53
3	Mo 202.031†	4.2	1.4	0.0975 ug/L	0.0975 ppb	19:48:53
3	Ni 231.604†	85.9	3.7	0.0841 ug/L	0.0841 ppb	19:48:53
3	P 214.914†	233.0	1.3	0.6196 ug/L	0.6196 ppb	19:48:53
3	Pb 220.353†	-57.9	12.6	1.3764 ug/L	1.3764 ppb	19:48:53
3	S 181.975 Axial†	46.3	-5.0	-6.0923 ug/L	-6.0923 ppb	19:48:53
3	Sb 206.836†	44.8	9.8	3.0277 ug/L	3.0277 ppb	19:48:53
3	Se 196.026†	-25.5	3.7	2.0570 ug/L	2.0570 ppb	19:48:53
3	Si 251.611†	568.7	85.9	2.5545 ug/L	2.5545 ppb	19:48:53
3	Sn 189.927†	22.1	4.7	0.7700 ug/L	0.7700 ppb	19:48:53
3	Ti 334.940†	-1747.2	-73.2	-0.1051 ug/L	-0.1051 ppb	19:48:33
3	Tl 190.801†	-37.7	5.0	1.4400 ug/L	1.4400 ppb	19:48:53
3	U 409.014†	-4282.9	-8.6	-0.2814 ug/L	-0.2814 ppb	19:48:33
3	V 292.402†	-1753.1	-65.9	-0.4606 ug/L	-0.4606 ppb	19:48:33
3	Zn 213.857†	738.6	2.2	0.0162 ug/L	0.0162 ppb	19:48:53
3	SiO2†	543.7	17.6	1.1235 ug/L	1.1235 ppb	19:49:08

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	850580.2	98.360 %	0.5311			0.54%
Sc Radial	3743.0	94.5 %	0.90			0.96%
Y 371.029	670882.4	98.357 %	0.4813			0.49%
Y RADIAL	4139.3	91.21 %	0.983			1.08%
Ag 328.068†	8.9	0.0405 ug/L	0.28922	0.0405 ppb	0.28922	714.18%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-11.5	-10.388 ug/L	13.8890	-10.388 ppb	13.8890	133.70%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	7.9	3.0207 ug/L	1.75469	3.0207 ppb	1.75469	58.09%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	155.8	3.3094 ug/L	0.91977	3.3094 ppb	0.91977	27.79%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.9	0.0433 ug/L	0.04367	0.0433 ppb	0.04367	100.79%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	42.1	0.0142 ug/L	0.00136	0.0142 ppb	0.00136	9.56%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.4	2.8221 ug/L	2.10193	2.8221 ppb	2.10193	74.48%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-6.9	-0.0725 ug/L	0.17551	-0.0725 ppb	0.17551 242.00%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-8.4	-0.1551 ug/L	0.15158	-0.1551 ppb	0.15158 97.74%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	9.9	0.1060 ug/L	0.17777	0.1060 ppb	0.17777 167.78%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	101.2	0.2918 ug/L	0.20648	0.2918 ppb	0.20648 70.75%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	0.2	2.4205 ug/L	21.50377	2.4205 ppb	21.50377 888.41%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	267.7	46.671 ug/L	2.9566	46.671 ppb	2.9566 6.33%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-2.8	-120.46 ug/L	36.017	-120.46 ppb	36.017 29.90%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	64.0	0.0707 ug/L	0.02308	0.0707 ppb	0.02308 32.66%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	4.6	0.3164 ug/L	0.32471	0.3164 ppb	0.32471 102.63%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-44.4	-12.732 ug/L	14.0510	-12.732 ppb	14.0510 110.36%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	7.5	0.1712 ug/L	0.13348	0.1712 ppb	0.13348 77.95%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-1.7	-0.9499 ug/L	1.44729	-0.9499 ppb	1.44729 152.36%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-0.7	-0.0777 ug/L	1.47894	-0.0777 ppb	1.47894 >999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-2.8	-3.4202 ug/L	2.80836	-3.4202 ppb	2.80836 82.11%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	5.0	1.5407 ug/L	1.73214	1.5407 ppb	1.73214 112.42%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	5.4	2.9149 ug/L	1.09759	2.9149 ppb	1.09759 37.65%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	69.8	2.0720 ug/L	0.43478	2.0720 ppb	0.43478 20.98%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	-1.5	-0.2465 ug/L	1.48086	-0.2465 ppb	1.48086 600.88%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	1.8	0.0120 ug/L	0.22506	0.0120 ppb	0.22506 >999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-53.6	-0.0711 ug/L	0.07888	-0.0711 ppb	0.07888 110.92%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	5.4	1.5343 ug/L	0.22269	1.5343 ppb	0.22269 14.51%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-66.9	-2.1708 ug/L	1.86166	-2.1708 ppb	1.86166 85.76%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-91.8	-0.6397 ug/L	0.15717	-0.6397 ppb	0.15717 24.57%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	-2.8	-0.0261 ug/L	0.05919	-0.0261 ppb	0.05919 227.15%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	24.8	1.5772 ug/L	0.63614	1.5772 ppb	0.63614 40.33%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 45

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 2/3/2010 21:02:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3655.4	3655.4	92.3 %		21:04:26
1	Y RADIAL	3915.8	3915.8	86.28 %		21:04:06
1	Al 396.153Radial†	5200.9	5830.1	5213.0 ug/L	5213.0 ppb	21:04:06
1	Ca 317.933Radial†	2471.8	2661.5	5276.7 ug/L	5276.7 ppb	21:04:26
1	Fe 238.204 Radial†	417.0	439.9	5254.4 ug/L	5254.4 ppb	21:04:26
1	K 766.490 Radial†	29876.8	29335.9	5108.3 ug/L	5108.3 ppb	21:04:06
1	Mg 279.077 IEC†	118.6	125.1	5445.5 ug/L	5445.5 ppb	21:04:26
1	Na 589.592 Radial†	29201.7	33220.3	9525.4 ug/L	9525.4 ppb	21:04:06
1	Sr 421.552†	66993.1	72575.6	490.24 ug/L	490.24 ppb	21:04:06
1	Sc 361.383	827805.1	827805.1	95.726 %		21:05:25
1	Y 371.029	646253.1	646253.1	94.746 %		21:05:25
1	Ag 328.068†	104081.2	108292.6	494.83 ug/L	494.83 ppb	21:05:25
1	As 188.979†	1221.2	1311.2	504.44 ug/L	504.44 ppb	21:05:45
1	B 249.677†	20950.1	22492.1	475.65 ug/L	475.65 ppb	21:05:25
1	Ba 233.527†	62451.9	65258.0	492.93 ug/L	492.93 ppb	21:05:25
1	Be 313.107†	1383557.7	1449268.8	495.29 ug/L	495.29 ppb	21:05:25
1	Cd 226.502†	44469.8	46654.8	486.55 ug/L	486.55 ppb	21:05:45
1	Co 228.616†	25228.4	26441.1	491.67 ug/L	491.67 ppb	21:05:45
1	Cr 267.716†	44460.0	46355.8	495.16 ug/L	495.16 ppb	21:05:25
1	Cu 324.752†	170199.3	170949.3	490.68 ug/L	490.68 ppb	21:05:25
1	Mn 257.610†	459433.3	479451.6	491.15 ug/L	491.15 ppb	21:05:25
1	Mo 202.031†	7097.2	7411.2	505.41 ug/L	505.41 ppb	21:05:45
1	Ni 231.604†	21002.5	21856.9	496.32 ug/L	496.32 ppb	21:05:45
1	P 214.914†	4857.2	4839.6	2364.6 ug/L	2364.6 ppb	21:05:45
1	Pb 220.353†	4313.0	4576.8	502.38 ug/L	502.38 ppb	21:05:45
1	S 181.975 Axial†	827.8	812.9	982.63 ug/L	982.63 ppb	21:05:45
1	Sb 206.836†	1554.9	1588.8	507.13 ug/L	507.13 ppb	21:05:45
1	Se 196.026†	844.4	911.7	511.61 ug/L	511.61 ppb	21:05:45
1	Si 251.611†	80114.7	83201.8	2469.3 ug/L	2469.3 ppb	21:05:25
1	Sn 189.927†	2950.4	3064.4	498.45 ug/L	498.45 ppb	21:05:45
1	Ti 334.940†	311142.1	326727.2	501.52 ug/L	501.52 ppb	21:05:25
1	Tl 190.801†	1629.4	1745.4	502.21 ug/L	502.21 ppb	21:05:45
1	U 409.014†	9853.3	14617.9	472.70 ug/L	472.70 ppb	21:05:25
1	V 292.402†	66300.9	70968.6	499.31 ug/L	499.31 ppb	21:05:25
1	Zn 213.857†	55316.3	57040.7	483.59 ug/L	483.59 ppb	21:05:25
1	SiO2†	81291.3	84388.0	5372.3 ug/L	5372.3 ppb	21:06:45
2	Sc Radial	3697.6	3697.6	93.4 %		21:04:51
2	Y RADIAL	4320.7	4320.7	95.20 %		21:04:31
2	Al 396.153Radial†	5149.5	5710.8	5106.5 ug/L	5106.5 ppb	21:04:31
2	Ca 317.933Radial†	2496.5	2657.4	5268.6 ug/L	5268.6 ppb	21:04:51
2	Fe 238.204 Radial†	423.7	441.9	5277.7 ug/L	5277.7 ppb	21:04:51
2	K 766.490 Radial†	29822.3	28907.7	5033.7 ug/L	5033.7 ppb	21:04:31
2	Mg 279.077 IEC†	116.9	121.9	5306.1 ug/L	5306.1 ppb	21:04:51
2	Na 589.592 Radial†	29354.1	33022.1	9468.6 ug/L	9468.6 ppb	21:04:31
2	Sr 421.552†	66700.9	71433.5	482.53 ug/L	482.53 ppb	21:04:31
2	Sc 361.383	852579.6	852579.6	98.591 %		21:05:53
2	Y 371.029	664482.8	664482.8	97.418 %		21:05:53
2	Ag 328.068†	105961.0	107039.9	489.13 ug/L	489.13 ppb	21:05:53
2	As 188.979†	1221.1	1274.0	490.24 ug/L	490.24 ppb	21:06:13
2	B 249.677†	21606.9	22522.4	476.32 ug/L	476.32 ppb	21:05:53
2	Ba 233.527†	63472.1	64397.0	486.43 ug/L	486.43 ppb	21:05:53
2	Be 313.107†	1410251.6	1434345.4	490.19 ug/L	490.19 ppb	21:05:53
2	Cd 226.502†	44643.3	45480.8	474.29 ug/L	474.29 ppb	21:06:13
2	Co 228.616†	25324.3	25772.5	479.22 ug/L	479.22 ppb	21:06:13
2	Cr 267.716†	45172.6	45729.0	488.46 ug/L	488.46 ppb	21:05:53
2	Cu 324.752†	173231.1	168857.9	484.69 ug/L	484.69 ppb	21:05:53
2	Mn 257.610†	467359.0	473544.2	485.11 ug/L	485.11 ppb	21:05:53
2	Mo 202.031†	7104.0	7202.7	491.21 ug/L	491.21 ppb	21:06:13
2	Ni 231.604†	21090.0	21308.1	483.86 ug/L	483.86 ppb	21:06:13

2	P 214.914†	4864.2	4699.2	2294.3 ug/L	2294.3 ppb	21:06:13
2	Pb 220.353†	4326.1	4459.1	489.46 ug/L	489.46 ppb	21:06:13
2	S 181.975 Axial†	835.9	795.9	962.17 ug/L	962.17 ppb	21:06:13
2	Sb 206.836†	1575.4	1562.4	498.51 ug/L	498.51 ppb	21:06:13
2	Se 196.026†	844.6	886.2	497.82 ug/L	497.82 ppb	21:06:13
2	Si 251.611†	81499.3	82174.2	2438.9 ug/L	2438.9 ppb	21:05:53
2	Sn 189.927†	2962.8	2987.5	485.96 ug/L	485.96 ppb	21:06:13
2	Ti 334.940†	316170.0	322382.0	494.86 ug/L	494.86 ppb	21:05:53
2	Tl 190.801†	1629.2	1695.7	487.99 ug/L	487.99 ppb	21:06:13
2	U 409.014†	9967.2	14434.4	466.75 ug/L	466.75 ppb	21:05:53
2	V 292.402†	67271.2	69940.2	491.96 ug/L	491.96 ppb	21:05:53
2	Zn 213.857†	56551.1	56614.1	480.03 ug/L	480.03 ppb	21:05:53
2	SiO2†	81289.5	81918.6	5215.0 ug/L	5215.0 ppb	21:06:51
3	Sc Radial	3666.2	3666.2	92.6 %		21:05:16
3	Y RADIAL	4130.9	4130.9	91.02 %		21:04:56
3	Al 396.153Radial†	5195.1	5807.3	5193.5 ug/L	5193.5 ppb	21:04:56
3	Ca 317.933Radial†	2471.8	2653.6	5261.0 ug/L	5261.0 ppb	21:05:16
3	Fe 238.204 Radial†	414.8	436.3	5210.2 ug/L	5210.2 ppb	21:05:16
3	K 766.490 Radial†	29826.7	29186.3	5082.3 ug/L	5082.3 ppb	21:04:56
3	Mg 279.077 IEC†	115.4	121.4	5283.0 ug/L	5283.0 ppb	21:05:16
3	Na 589.592 Radial†	29338.6	33274.9	9541.0 ug/L	9541.0 ppb	21:04:56
3	Sr 421.552†	67154.7	72535.9	489.98 ug/L	489.98 ppb	21:04:56
3	Sc 361.383	859254.2	859254.2	99.363 %		21:06:20
3	Y 371.029	667773.8	667773.8	97.901 %		21:06:20
3	Ag 328.068†	106518.0	106765.6	487.86 ug/L	487.86 ppb	21:06:20
3	As 188.979†	1210.5	1253.8	482.49 ug/L	482.49 ppb	21:06:40
3	B 249.677†	21569.8	22314.9	471.93 ug/L	471.93 ppb	21:06:20
3	Ba 233.527†	63667.5	64093.6	484.14 ug/L	484.14 ppb	21:06:20
3	Be 313.107†	1412097.4	1425091.8	487.03 ug/L	487.03 ppb	21:06:20
3	Cd 226.502†	44546.1	45031.2	469.61 ug/L	469.61 ppb	21:06:40
3	Co 228.616†	25288.9	25537.4	474.84 ug/L	474.84 ppb	21:06:40
3	Cr 267.716†	45200.9	45401.5	484.97 ug/L	484.97 ppb	21:06:20
3	Cu 324.752†	174167.9	168435.9	483.47 ug/L	483.47 ppb	21:06:20
3	Mn 257.610†	469685.4	472203.3	483.73 ug/L	483.73 ppb	21:06:20
3	Mo 202.031†	7074.3	7116.8	485.35 ug/L	485.35 ppb	21:06:40
3	Ni 231.604†	21025.9	21077.4	478.62 ug/L	478.62 ppb	21:06:40
3	P 214.914†	4883.7	4680.6	2285.1 ug/L	2285.1 ppb	21:06:40
3	Pb 220.353†	4310.1	4408.9	483.98 ug/L	483.98 ppb	21:06:40
3	S 181.975 Axial†	824.9	778.3	940.76 ug/L	940.76 ppb	21:06:40
3	Sb 206.836†	1570.2	1544.7	492.91 ug/L	492.91 ppb	21:06:40
3	Se 196.026†	848.5	883.4	496.12 ug/L	496.12 ppb	21:06:40
3	Si 251.611†	82018.8	82054.9	2435.4 ug/L	2435.4 ppb	21:06:20
3	Sn 189.927†	2966.9	2968.3	482.84 ug/L	482.84 ppb	21:06:40
3	Ti 334.940†	317788.8	321520.1	493.54 ug/L	493.54 ppb	21:06:20
3	Tl 190.801†	1624.7	1678.3	483.02 ug/L	483.02 ppb	21:06:40
3	U 409.014†	10074.9	14464.2	467.74 ug/L	467.74 ppb	21:06:20
3	V 292.402†	67508.3	69648.8	489.87 ug/L	489.87 ppb	21:06:20
3	Zn 213.857†	56783.4	56402.3	478.26 ug/L	478.26 ppb	21:06:20
3	SiO2†	81389.1	81378.3	5180.7 ug/L	5180.7 ppb	21:06:56

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	846546.3	97.894 %	1.9161			1.96%
Sc Radial	3673.1	92.8 %	0.55			0.60%
Y 371.029	659503.3	96.688 %	1.6995			1.76%
Y RADIAL	4122.5	90.83 %	4.464			4.91%
Ag 328.068†	107366.0	490.61 ug/L	3.716	490.61 ppb	3.716	0.76%
QC value within limits for Ag 328.068 Recovery = 98.12%						
Al 396.153Radial†	5782.7	5171.0 ug/L	56.71	5171.0 ppb	56.71	1.10%
QC value within limits for Al 396.153Radial Recovery = 103.42%						
As 188.979†	1279.7	492.39 ug/L	11.129	492.39 ppb	11.129	2.26%
QC value within limits for As 188.979 Recovery = 98.48%						
B 249.677†	22443.1	474.63 ug/L	2.362	474.63 ppb	2.362	0.50%
QC value within limits for B 249.677 Recovery = 94.93%						
Ba 233.527†	64582.8	487.83 ug/L	4.562	487.83 ppb	4.562	0.94%
QC value within limits for Ba 233.527 Recovery = 97.57%						
Be 313.107†	1436235.3	490.84 ug/L	4.169	490.84 ppb	4.169	0.85%
QC value within limits for Be 313.107 Recovery = 98.17%						
Ca 317.933Radial†	2657.5	5268.8 ug/L	7.85	5268.8 ppb	7.85	0.15%

QC value within limits for Ca 317.933 Radial Recovery = 105.38%

Cd 226.502†	45722.3	476.82 ug/L	8.749	476.82 ppb	8.749	1.83%
QC value within limits for Cd 226.502 Recovery = 95.36%						
Co 228.616†	25917.0	481.91 ug/L	8.732	481.91 ppb	8.732	1.81%
QC value within limits for Co 228.616 Recovery = 96.38%						
Cr 267.716†	45828.8	489.53 ug/L	5.179	489.53 ppb	5.179	1.06%
QC value within limits for Cr 267.716 Recovery = 97.91%						
Cu 324.752†	169414.4	486.28 ug/L	3.862	486.28 ppb	3.862	0.79%
QC value within limits for Cu 324.752 Recovery = 97.26%						
Fe 238.204 Radial†	439.4	5247.4 ug/L	34.33	5247.4 ppb	34.33	0.65%
QC value within limits for Fe 238.204 Radial Recovery = 104.95%						
K 766.490 Radial†	29143.3	5074.8 ug/L	37.86	5074.8 ppb	37.86	0.75%
QC value within limits for K 766.490 Radial Recovery = 101.50%						
Mg 279.077 IEC†	122.8	5344.9 ug/L	87.93	5344.9 ppb	87.93	1.65%
QC value within limits for Mg 279.077 IEC Recovery = 106.90%						
Mn 257.610†	475066.4	486.66 ug/L	3.946	486.66 ppb	3.946	0.81%
QC value within limits for Mn 257.610 Recovery = 97.33%						
Mo 202.031†	7243.6	493.99 ug/L	10.316	493.99 ppb	10.316	2.09%
QC value within limits for Mo 202.031 Recovery = 98.80%						
Na 589.592 Radial†	33172.5	9511.7 ug/L	38.14	9511.7 ppb	38.14	0.40%
QC value within limits for Na 589.592 Radial Recovery = 95.12%						
Ni 231.604†	21414.2	486.27 ug/L	9.093	486.27 ppb	9.093	1.87%
QC value within limits for Ni 231.604 Recovery = 97.25%						
P 214.914†	4739.8	2314.7 ug/L	43.50	2314.7 ppb	43.50	1.88%
QC value within limits for P 214.914 Recovery = 92.59%						
Pb 220.353†	4481.6	491.94 ug/L	9.450	491.94 ppb	9.450	1.92%
QC value within limits for Pb 220.353 Recovery = 98.39%						
S 181.975 Axial†	795.7	961.85 ug/L	20.940	961.85 ppb	20.940	2.18%
QC value within limits for S 181.975 Axial Recovery = 96.19%						
Sb 206.836†	1565.3	499.52 ug/L	7.167	499.52 ppb	7.167	1.43%
QC value within limits for Sb 206.836 Recovery = 99.90%						
Se 196.026†	893.7	501.85 ug/L	8.491	501.85 ppb	8.491	1.69%
QC value within limits for Se 196.026 Recovery = 100.37%						
Si 251.611†	82477.0	2447.9 ug/L	18.64	2447.9 ppb	18.64	0.76%
QC value within limits for Si 251.611 Recovery = 97.92%						
Sn 189.927†	3006.7	489.08 ug/L	8.264	489.08 ppb	8.264	1.69%
QC value within limits for Sn 189.927 Recovery = 97.82%						
Sr 421.552†	72181.7	487.58 ug/L	4.379	487.58 ppb	4.379	0.90%
QC value within limits for Sr 421.552 Recovery = 97.52%						
Ti 334.940†	323543.1	496.64 ug/L	4.276	496.64 ppb	4.276	0.86%
QC value within limits for Ti 334.940 Recovery = 99.33%						
Tl 190.801†	1706.5	491.07 ug/L	9.958	491.07 ppb	9.958	2.03%
QC value within limits for Tl 190.801 Recovery = 98.21%						
U 409.014†	14505.5	469.06 ug/L	3.187	469.06 ppb	3.187	0.68%
QC value within limits for U 409.014 Recovery = 93.81%						
V 292.402†	70185.9	493.71 ug/L	4.957	493.71 ppb	4.957	1.00%
QC value within limits for V 292.402 Recovery = 98.74%						
Zn 213.857†	56685.7	480.63 ug/L	2.717	480.63 ppb	2.717	0.57%
QC value within limits for Zn 213.857 Recovery = 96.13%						
SiO2†	82561.6	5256.0 ug/L	102.13	5256.0 ppb	102.13	1.94%
QC value within limits for SiO2 Recovery = 98.29%						

All analyte(s) passed QC.

Sequence No.: 46

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/3/2010 21:09:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3691.2	3691.2	93.2 %		21:11:17
1	Y RADIAL	4160.0	4160.0	91.66 %		21:10:57
1	Al 396.153Radial†	-202.2	-21.1	-18.935 ug/L	-18.935 ppb	21:10:57
1	Ca 317.933Radial†	12.1	-3.3	-6.5804 ug/L	-6.5804 ppb	21:11:17
1	Fe 238.204 Radial†	12.3	1.4	16.749 ug/L	16.749 ppb	21:11:17
1	K 766.490 Radial†	3154.7	353.7	61.682 ug/L	61.682 ppb	21:10:57
1	Mg 279.077 IEC†	0.9	-2.3	-101.32 ug/L	-101.32 ppb	21:11:17
1	Na 589.592 Radial†	-1566.9	-95.9	-27.484 ug/L	-27.484 ppb	21:10:57
1	Sr 421.552†	22.1	23.3	0.1575 ug/L	0.1575 ppb	21:10:57
1	Sc 361.383	844149.0	844149.0	97.616 %		21:12:14
1	Y 371.029	668405.6	668405.6	97.993 %		21:12:14
1	Ag 328.068†	406.9	-18.3	-0.0807 ug/L	-0.0807 ppb	21:12:14
1	As 188.979†	-27.7	7.0	2.6910 ug/L	2.6910 ppb	21:12:34
1	B 249.677†	-491.8	103.0	2.1856 ug/L	2.1856 ppb	21:12:14
1	Ba 233.527†	-7.6	10.2	0.0757 ug/L	0.0757 ppb	21:12:34
1	Be 313.107†	-3809.0	42.1	0.0144 ug/L	0.0144 ppb	21:12:14
1	Cd 226.502†	-198.0	-3.2	-0.0344 ug/L	-0.0344 ppb	21:12:34
1	Co 228.616†	-70.1	14.6	0.2718 ug/L	0.2718 ppb	21:12:34
1	Cr 267.716†	63.9	-23.6	-0.2525 ug/L	-0.2525 ppb	21:12:14
1	Cu 324.752†	6936.2	257.3	0.7392 ug/L	0.7392 ppb	21:12:14
1	Mn 257.610†	543.6	64.5	0.0718 ug/L	0.0718 ppb	21:12:34
1	Mo 202.031†	8.0	5.3	0.3655 ug/L	0.3655 ppb	21:12:34
1	Ni 231.604†	104.2	23.5	0.5348 ug/L	0.5348 ppb	21:12:34
1	P 214.914†	235.7	7.0	3.3839 ug/L	3.3839 ppb	21:12:34
1	Pb 220.353†	-83.9	-14.7	-1.6161 ug/L	-1.6161 ppb	21:12:34
1	S 181.975 Axial†	41.4	-9.5	-11.545 ug/L	-11.545 ppb	21:12:34
1	Sb 206.836†	53.8	19.5	6.0040 ug/L	6.0040 ppb	21:12:34
1	Se 196.026†	-31.3	-2.5	-1.3210 ug/L	-1.3210 ppb	21:12:34
1	Si 251.611†	560.3	84.4	2.5068 ug/L	2.5068 ppb	21:12:34
1	Sn 189.927†	11.7	-5.6	-0.9125 ug/L	-0.9125 ppb	21:12:34
1	Ti 334.940†	-1635.4	19.2	0.0369 ug/L	0.0369 ppb	21:12:14
1	Tl 190.801†	-38.4	3.9	1.1165 ug/L	1.1165 ppb	21:12:34
1	U 409.014†	-4214.2	7.7	0.2486 ug/L	0.2486 ppb	21:12:14
1	V 292.402†	-1783.4	-119.1	-0.8253 ug/L	-0.8253 ppb	21:12:14
1	Zn 213.857†	700.3	-27.7	-0.2430 ug/L	-0.2430 ppb	21:12:34
1	SiO2†	575.6	57.3	3.6452 ug/L	3.6452 ppb	21:13:30
2	Sc Radial	3707.5	3707.5	93.6 %		21:11:42
2	Y RADIAL	4169.0	4169.0	91.86 %		21:11:22
2	Al 396.153Radial†	-174.8	9.1	8.1166 ug/L	8.1166 ppb	21:11:22
2	Ca 317.933Radial†	20.1	5.2	10.249 ug/L	10.249 ppb	21:11:42
2	Fe 238.204 Radial†	11.2	0.1	1.2363 ug/L	1.2363 ppb	21:11:42
2	K 766.490 Radial†	3021.1	196.1	34.194 ug/L	34.194 ppb	21:11:22
2	Mg 279.077 IEC†	0.6	-2.6	-114.62 ug/L	-114.62 ppb	21:11:42
2	Na 589.592 Radial†	-1532.0	-51.3	-14.697 ug/L	-14.697 ppb	21:11:22
2	Sr 421.552†	4.7	4.6	0.0308 ug/L	0.0308 ppb	21:11:22
2	Sc 361.383	837567.6	837567.6	96.855 %		21:12:40
2	Y 371.029	662867.4	662867.4	97.182 %		21:12:40
2	Ag 328.068†	520.4	102.1	0.4614 ug/L	0.4614 ppb	21:12:40
2	As 188.979†	-21.1	13.6	5.1991 ug/L	5.1991 ppb	21:13:00
2	B 249.677†	-516.8	73.2	1.5548 ug/L	1.5548 ppb	21:12:40
2	Ba 233.527†	2.0	20.1	0.1506 ug/L	0.1506 ppb	21:13:00
2	Be 313.107†	-3828.0	-8.2	-0.0033 ug/L	-0.0033 ppb	21:12:40
2	Cd 226.502†	-193.4	-0.1	-0.0007 ug/L	-0.0007 ppb	21:13:00
2	Co 228.616†	-82.1	1.6	0.0323 ug/L	0.0323 ppb	21:13:00
2	Cr 267.716†	74.7	-11.9	-0.1278 ug/L	-0.1278 ppb	21:12:40
2	Cu 324.752†	6874.8	249.7	0.7159 ug/L	0.7159 ppb	21:12:40
2	Mn 257.610†	513.4	37.6	0.0433 ug/L	0.0433 ppb	21:13:00
2	Mo 202.031†	14.9	12.6	0.8580 ug/L	0.8580 ppb	21:13:00
2	Ni 231.604†	83.3	2.8	0.0640 ug/L	0.0640 ppb	21:13:00

2	P 214.914†	240.5	13.9	6.9001 ug/L	6.9001 ppb	21:13:00
2	Pb 220.353†	-75.7	-7.0	-0.7648 ug/L	-0.7648 ppb	21:13:00
2	S 181.975 Axial†	48.5	-1.9	-2.2792 ug/L	-2.2792 ppb	21:13:00
2	Sb 206.836†	45.3	11.2	3.4595 ug/L	3.4595 ppb	21:13:00
2	Se 196.026†	-32.4	-3.9	-2.1282 ug/L	-2.1282 ppb	21:13:00
2	Si 251.611†	561.7	90.4	2.6795 ug/L	2.6795 ppb	21:13:00
2	Sn 189.927†	10.0	-7.3	-1.1838 ug/L	-1.1838 ppb	21:13:00
2	Ti 334.940†	-1773.5	-136.5	-0.1995 ug/L	-0.1995 ppb	21:12:40
2	Tl 190.801†	-41.7	0.1	0.0324 ug/L	0.0324 ppb	21:13:00
2	U 409.014†	-4147.7	42.4	1.3752 ug/L	1.3752 ppb	21:12:40
2	V 292.402†	-1696.9	-44.2	-0.2939 ug/L	-0.2939 ppb	21:12:40
2	Zn 213.857†	700.4	-21.9	-0.1888 ug/L	-0.1888 ppb	21:13:00
2	SiO2†	546.1	31.4	1.9780 ug/L	1.9780 ppb	21:13:35
3	Sc Radial	3712.6	3712.6	93.8 %		21:12:07
3	Y RADIAL	4189.2	4189.2	92.31 %		21:11:47
3	Al 396.153Radial†	-196.7	-14.0	-12.544 ug/L	-12.544 ppb	21:11:47
3	Ca 317.933Radial†	8.8	-6.9	-13.729 ug/L	-13.729 ppb	21:12:07
3	Fe 238.204 Radial†	11.8	0.8	9.7206 ug/L	9.7206 ppb	21:12:07
3	K 766.490 Radial†	3082.6	257.3	44.884 ug/L	44.884 ppb	21:11:47
3	Mg 279.077 IEC†	2.7	-0.4	-18.891 ug/L	-18.891 ppb	21:12:07
3	Na 589.592 Radial†	-1624.4	-147.5	-42.304 ug/L	-42.304 ppb	21:11:47
3	Sr 421.552†	5.1	5.0	0.0338 ug/L	0.0338 ppb	21:11:47
3	Sc 361.383	845255.8	845255.8	97.744 %		21:13:05
3	Y 371.029	668995.7	668995.7	98.080 %		21:13:05
3	Ag 328.068†	435.3	10.2	0.0466 ug/L	0.0466 ppb	21:13:05
3	As 188.979†	-24.3	10.6	4.0331 ug/L	4.0331 ppb	21:13:25
3	B 249.677†	-574.6	18.9	0.4011 ug/L	0.4011 ppb	21:13:05
3	Ba 233.527†	-11.3	6.4	0.0471 ug/L	0.0471 ppb	21:13:25
3	Be 313.107†	-3757.4	100.0	0.0337 ug/L	0.0337 ppb	21:13:05
3	Cd 226.502†	-216.9	-22.3	-0.2335 ug/L	-0.2335 ppb	21:13:25
3	Co 228.616†	-92.4	-8.1	-0.1501 ug/L	-0.1501 ppb	21:13:25
3	Cr 267.716†	106.9	20.3	0.2161 ug/L	0.2161 ppb	21:13:05
3	Cu 324.752†	6877.9	188.3	0.5411 ug/L	0.5411 ppb	21:13:05
3	Mn 257.610†	543.2	63.3	0.0666 ug/L	0.0666 ppb	21:13:25
3	Mo 202.031†	4.5	1.7	0.1185 ug/L	0.1185 ppb	21:13:25
3	Ni 231.604†	90.9	9.8	0.2227 ug/L	0.2227 ppb	21:13:25
3	P 214.914†	226.0	-3.2	-1.7636 ug/L	-1.7636 ppb	21:13:25
3	Pb 220.353†	-75.0	-5.5	-0.6107 ug/L	-0.6107 ppb	21:13:25
3	S 181.975 Axial†	45.9	-4.9	-5.9770 ug/L	-5.9770 ppb	21:13:25
3	Sb 206.836†	51.4	17.0	5.2231 ug/L	5.2231 ppb	21:13:25
3	Se 196.026†	-28.2	0.7	0.3832 ug/L	0.3832 ppb	21:13:25
3	Si 251.611†	561.6	85.0	2.5281 ug/L	2.5281 ppb	21:13:25
3	Sn 189.927†	11.8	-5.5	-0.8981 ug/L	-0.8981 ppb	21:13:25
3	Ti 334.940†	-1770.2	-116.4	-0.1790 ug/L	-0.1790 ppb	21:13:05
3	Tl 190.801†	-40.1	2.2	0.6217 ug/L	0.6217 ppb	21:13:25
3	U 409.014†	-4235.4	-8.4	-0.2735 ug/L	-0.2735 ppb	21:13:05
3	V 292.402†	-1781.2	-114.5	-0.7950 ug/L	-0.7950 ppb	21:13:05
3	Zn 213.857†	715.2	-13.4	-0.1174 ug/L	-0.1174 ppb	21:13:25
3	SiO2†	598.8	80.2	5.1146 ug/L	5.1146 ppb	21:13:40

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	842324.1	97.405 %		0.4806			0.49%
Sc Radial	3703.8	93.5 %		0.28			0.30%
Y 371.029	666756.2	97.752 %		0.4956			0.51%
Y RADIAL	4172.8	91.94 %		0.329			0.36%
Ag 328.068†	31.3	0.1425 ug/L		0.28349	0.1425 ppb	0.28349	199.00%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-8.6	-7.7875 ug/L		14.13926	-7.7875 ppb	14.13926	181.56%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	10.4	3.9744 ug/L		1.25511	3.9744 ppb	1.25511	31.58%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	65.0	1.3805 ug/L		0.90493	1.3805 ppb	0.90493	65.55%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	12.2	0.0911 ug/L		0.05344	0.0911 ppb	0.05344	58.65%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	44.6	0.0149 ug/L		0.01849	0.0149 ppb	0.01849	123.68%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-1.7	-3.3536 ug/L		12.31035	-3.3536 ppb	12.31035	367.08%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-8.5	-0.0895 ug/L	0.12581	-0.0895 ppb	0.12581 140.49%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	2.7	0.0513 ug/L	0.21156	0.0513 ppb	0.21156 412.27%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-5.0	-0.0547 ug/L	0.24270	-0.0547 ppb	0.24270 443.45%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	231.8	0.6654 ug/L	0.10828	0.6654 ppb	0.10828 16.27%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	0.8	9.2354 ug/L	7.76791	9.2354 ppb	7.76791 84.11%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	269.1	46.920 ug/L	13.8566	46.920 ppb	13.8566 29.53%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-1.8	-78.277 ug/L	51.8583	-78.277 ppb	51.8583 66.25%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	55.1	0.0606 ug/L	0.01517	0.0606 ppb	0.01517 25.05%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	6.6	0.4473 ug/L	0.37647	0.4473 ppb	0.37647 84.16%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-98.2	-28.162 ug/L	13.8160	-28.162 ppb	13.8160 49.06%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	12.1	0.2738 ug/L	0.23951	0.2738 ppb	0.23951 87.47%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	5.9	2.8401 ug/L	4.35740	2.8401 ppb	4.35740 153.42%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-9.1	-0.9972 ug/L	0.54149	-0.9972 ppb	0.54149 54.30%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-5.5	-6.6005 ug/L	4.66444	-6.6005 ppb	4.66444 70.67%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	15.9	4.8956 ug/L	1.30350	4.8956 ppb	1.30350 26.63%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-1.9	-1.0220 ug/L	1.28210	-1.0220 ppb	1.28210 125.45%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	86.6	2.5715 ug/L	0.09418	2.5715 ppb	0.09418 3.66%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	-6.1	-0.9982 ug/L	0.16094	-0.9982 ppb	0.16094 16.12%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	11.0	0.0740 ug/L	0.07231	0.0740 ppb	0.07231 97.68%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-77.9	-0.1139 ug/L	0.13095	-0.1139 ppb	0.13095 115.00%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	2.1	0.5902 ug/L	0.54273	0.5902 ppb	0.54273 91.95%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	13.9	0.4501 ug/L	0.84263	0.4501 ppb	0.84263 187.20%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-92.6	-0.6381 ug/L	0.29848	-0.6381 ppb	0.29848 46.78%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	-21.0	-0.1831 ug/L	0.06302	-0.1831 ppb	0.06302 34.42%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	56.3	3.5793 ug/L	1.56938	3.5793 ppb	1.56938 43.85%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 47
 Sample ID: 1202021571|944111|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 56
 Date Collected: 2/3/2010 21:15:51
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202021571|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3737.6	3737.6	94.4 %		21:18:03
1	Y RADIAL	4080.4	4080.4	89.91 %		21:17:43
1	Al 396.153Radial†	-177.7	7.5	6.7768 ug/L	6.7768 ppb	21:17:43
1	Ca 317.933Radial†	24.5	9.7	19.213 ug/L	19.213 ppb	21:18:03
1	Fe 238.204 Radial†	11.8	0.7	8.0429 ug/L	8.0429 ppb	21:18:03
1	K 766.490 Radial†	3061.5	213.0	37.124 ug/L	37.124 ppb	21:17:43
1	Mg 279.077 IEC†	4.1	1.1	45.804 ug/L	45.804 ppb	21:18:03
1	Na 589.592 Radial†	-1416.7	84.2	24.132 ug/L	24.132 ppb	21:17:43
1	Sr 421.552†	7.3	7.2	0.0488 ug/L	0.0488 ppb	21:17:43
1	Sc 361.383	848059.6	848059.6	98.069 %		21:19:00
1	Y 371.029	670817.5	670817.5	98.347 %		21:19:00
1	Ag 328.068†	514.2	89.2	0.4072 ug/L	0.4072 ppb	21:19:00
1	As 188.979†	-15.9	19.3	7.3552 ug/L	7.3552 ppb	21:19:20
1	B 249.677†	-613.6	-18.8	-0.4018 ug/L	-0.4018 ppb	21:19:00
1	Ba 233.527†	17.2	35.6	0.2689 ug/L	0.2689 ppb	21:19:20
1	Be 313.107†	-3804.2	65.0	0.0231 ug/L	0.0231 ppb	21:19:00
1	Cd 226.502†	-219.9	-24.7	-0.2573 ug/L	-0.2573 ppb	21:19:20
1	Co 228.616†	-84.3	0.4	0.0065 ug/L	0.0065 ppb	21:19:20
1	Cr 267.716†	89.5	2.3	0.0240 ug/L	0.0240 ppb	21:19:00
1	Cu 324.752†	6883.9	171.2	0.4912 ug/L	0.4912 ppb	21:19:00
1	Mn 257.610†	1047.1	575.2	0.5878 ug/L	0.5878 ppb	21:19:00
1	Mo 202.031†	3.6	0.9	0.0599 ug/L	0.0599 ppb	21:19:20
1	Ni 231.604†	110.0	28.9	0.6572 ug/L	0.6572 ppb	21:19:20
1	P 214.914†	235.3	5.5	2.6782 ug/L	2.6782 ppb	21:19:20
1	Pb 220.353†	-64.4	5.5	0.6056 ug/L	0.6056 ppb	21:19:20
1	S 181.975 Axial†	51.7	0.8	0.9770 ug/L	0.9770 ppb	21:19:20
1	Sb 206.836†	42.8	8.1	2.5117 ug/L	2.5117 ppb	21:19:20
1	Se 196.026†	-26.6	2.4	1.3281 ug/L	1.3281 ppb	21:19:20
1	Si 251.611†	874.4	402.1	11.963 ug/L	11.963 ppb	21:19:20
1	Sn 189.927†	21.8	4.5	0.7414 ug/L	0.7414 ppb	21:19:20
1	Ti 334.940†	-1386.5	280.8	0.4294 ug/L	0.4294 ppb	21:19:00
1	Tl 190.801†	-33.2	9.4	2.6956 ug/L	2.6956 ppb	21:19:20
1	U 409.014†	-4204.7	37.3	1.2092 ug/L	1.2092 ppb	21:19:00
1	V 292.402†	-1645.3	30.1	0.2114 ug/L	0.2114 ppb	21:19:00
1	Zn 213.857†	878.1	150.3	1.2798 ug/L	1.2798 ppb	21:19:20
1	SiO2†	910.8	396.3	25.293 ug/L	25.293 ppb	21:20:16
2	Sc Radial	3752.6	3752.6	94.8 %		21:18:28
2	Y RADIAL	4122.2	4122.2	90.83 %		21:18:08
2	Al 396.153Radial†	-177.6	8.4	7.5037 ug/L	7.5037 ppb	21:18:08
2	Ca 317.933Radial†	23.2	8.2	16.332 ug/L	16.332 ppb	21:18:28
2	Fe 238.204 Radial†	12.4	1.3	15.349 ug/L	15.349 ppb	21:18:28
2	K 766.490 Radial†	2954.5	87.1	15.188 ug/L	15.188 ppb	21:18:08
2	Mg 279.077 IEC†	1.9	-1.3	-54.680 ug/L	-54.680 ppb	21:18:28
2	Na 589.592 Radial†	-1500.5	1.7	0.4879 ug/L	0.4879 ppb	21:18:08
2	Sr 421.552†	15.7	16.2	0.1091 ug/L	0.1091 ppb	21:18:08
2	Sc 361.383	845996.7	845996.7	97.830 %		21:19:26
2	Y 371.029	669443.1	669443.1	98.146 %		21:19:26
2	Ag 328.068†	423.8	-1.9	-0.0084 ug/L	-0.0084 ppb	21:19:26
2	As 188.979†	-32.8	1.9	0.7253 ug/L	0.7253 ppb	21:19:46
2	B 249.677†	-558.9	35.6	0.7522 ug/L	0.7522 ppb	21:19:26
2	Ba 233.527†	8.8	27.0	0.2027 ug/L	0.2027 ppb	21:19:46
2	Be 313.107†	-3760.9	99.8	0.0349 ug/L	0.0349 ppb	21:19:26
2	Cd 226.502†	-206.5	-11.4	-0.1201 ug/L	-0.1201 ppb	21:19:46
2	Co 228.616†	-71.3	13.5	0.2496 ug/L	0.2496 ppb	21:19:46
2	Cr 267.716†	110.8	24.2	0.2568 ug/L	0.2568 ppb	21:19:26
2	Cu 324.752†	6772.1	74.0	0.2118 ug/L	0.2118 ppb	21:19:26
2	Mn 257.610†	1036.8	567.3	0.5846 ug/L	0.5846 ppb	21:19:26
2	Mo 202.031†	4.5	1.7	0.1201 ug/L	0.1201 ppb	21:19:46
2	Ni 231.604†	107.6	26.8	0.6094 ug/L	0.6094 ppb	21:19:46

2	P 214.914†	249.3	20.3	10.291 ug/L	10.291 ppb	21:19:46
2	Pb 220.353†	-83.3	-14.0	-1.5259 ug/L	-1.5259 ppb	21:19:46
2	S 181.975 Axial†	50.9	0.1	0.0965 ug/L	0.0965 ppb	21:19:46
2	Sb 206.836†	32.5	-2.4	-0.7091 ug/L	-0.7091 ppb	21:19:46
2	Se 196.026†	-20.3	8.7	4.7861 ug/L	4.7861 ppb	21:19:46
2	Si 251.611†	887.0	417.1	12.410 ug/L	12.410 ppb	21:19:46
2	Sn 189.927†	24.2	7.1	1.1498 ug/L	1.1498 ppb	21:19:46
2	Ti 334.940†	-1403.7	259.8	0.4044 ug/L	0.4044 ppb	21:19:26
2	Tl 190.801†	-35.8	6.6	1.8960 ug/L	1.8960 ppb	21:19:46
2	U 409.014†	-4158.9	73.6	2.3866 ug/L	2.3866 ppb	21:19:26
2	V 292.402†	-1767.2	-98.6	-0.6821 ug/L	-0.6821 ppb	21:19:26
2	Zn 213.857†	858.1	132.0	1.1238 ug/L	1.1238 ppb	21:19:46
2	SiO2†	906.9	394.6	25.180 ug/L	25.180 ppb	21:20:22
3	Sc Radial	3730.9	3730.9	94.2 %		21:18:53
3	Y RADIAL	4238.8	4238.8	93.40 %		21:18:33
3	Al 396.153Radial†	-171.0	14.4	12.822 ug/L	12.822 ppb	21:18:33
3	Ca 317.933Radial†	24.5	9.7	19.255 ug/L	19.255 ppb	21:18:53
3	Fe 238.204 Radial†	14.9	4.0	48.076 ug/L	48.076 ppb	21:18:53
3	K 766.490 Radial†	3023.1	178.0	31.018 ug/L	31.018 ppb	21:18:33
3	Mg 279.077 IEC†	0.8	-2.4	-105.47 ug/L	-105.47 ppb	21:18:53
3	Na 589.592 Radial†	-1458.4	37.2	10.658 ug/L	10.658 ppb	21:18:33
3	Sr 421.552†	6.7	6.7	0.0450 ug/L	0.0450 ppb	21:18:33
3	Sc 361.383	852728.7	852728.7	98.609 %		21:19:51
3	Y 371.029	675495.7	675495.7	99.033 %		21:19:51
3	Ag 328.068†	382.2	-47.5	-0.2024 ug/L	-0.2024 ppb	21:19:51
3	As 188.979†	-32.3	2.7	1.0366 ug/L	1.0366 ppb	21:20:11
3	B 249.677†	-536.6	62.7	1.3235 ug/L	1.3235 ppb	21:19:51
3	Ba 233.527†	11.3	29.5	0.2240 ug/L	0.2240 ppb	21:20:11
3	Be 313.107†	-3768.6	122.3	0.0424 ug/L	0.0424 ppb	21:19:51
3	Cd 226.502†	-209.1	-12.5	-0.1340 ug/L	-0.1340 ppb	21:20:11
3	Co 228.616†	-75.2	10.1	0.1898 ug/L	0.1898 ppb	21:20:11
3	Cr 267.716†	153.1	66.2	0.7063 ug/L	0.7063 ppb	21:19:51
3	Cu 324.752†	6887.4	136.3	0.3919 ug/L	0.3919 ppb	21:19:51
3	Mn 257.610†	1012.8	534.7	0.5564 ug/L	0.5564 ppb	21:19:51
3	Mo 202.031†	25.6	23.1	1.5782 ug/L	1.5782 ppb	21:20:11
3	Ni 231.604†	97.8	15.9	0.3620 ug/L	0.3620 ppb	21:20:11
3	P 214.914†	231.5	0.3	0.0583 ug/L	0.0583 ppb	21:20:11
3	Pb 220.353†	-74.6	-4.4	-0.4822 ug/L	-0.4822 ppb	21:20:11
3	S 181.975 Axial†	52.1	0.9	1.1166 ug/L	1.1166 ppb	21:20:11
3	Sb 206.836†	41.0	6.0	1.8769 ug/L	1.8769 ppb	21:20:11
3	Se 196.026†	-38.0	-9.1	-4.7638 ug/L	-4.7638 ppb	21:20:11
3	Si 251.611†	887.6	410.5	12.196 ug/L	12.196 ppb	21:20:11
3	Sn 189.927†	14.3	-3.1	-0.4990 ug/L	-0.4990 ppb	21:20:11
3	Ti 334.940†	-1475.3	198.5	0.3142 ug/L	0.3142 ppb	21:19:51
3	Tl 190.801†	-38.2	4.5	1.2798 ug/L	1.2798 ppb	21:20:11
3	U 409.014†	-4158.6	107.5	3.4826 ug/L	3.4826 ppb	21:19:51
3	V 292.402†	-1674.5	9.7	0.0866 ug/L	0.0866 ppb	21:19:51
3	Zn 213.857†	867.8	135.0	1.1471 ug/L	1.1471 ppb	21:20:11
3	SiO2†	894.2	374.4	23.852 ug/L	23.852 ppb	21:20:27

Mean Data: 1202021571|944111|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	848928.3	98.169 %		0.3988			0.41%
Sc Radial	3740.3	94.5 %		0.28			0.30%
Y 371.029	671918.8	98.509 %		0.4652			0.47%
Y RADIAL	4147.1	91.38 %		1.809			1.98%
Ag 328.068†	13.3	0.0655 ug/L		0.31146	0.0655 ppb	0.31146	475.76%
Al 396.153Radial†	10.1	9.0342 ug/L		3.30044	9.0342 ppb	3.30044	36.53%
As 188.979†	7.9	3.0390 ug/L		3.74111	3.0390 ppb	3.74111	123.10%
B 249.677†	26.5	0.5580 ug/L		0.87889	0.5580 ppb	0.87889	157.52%
Ba 233.527†	30.7	0.2319 ug/L		0.03377	0.2319 ppb	0.03377	14.57%
Be 313.107†	95.7	0.0335 ug/L		0.00970	0.0335 ppb	0.00970	28.97%
Ca 317.933Radial†	9.2	18.266 ug/L		1.6758	18.266 ppb	1.6758	9.17%
Cd 226.502†	-16.2	-0.1705 ug/L		0.07554	-0.1705 ppb	0.07554	44.31%
Co 228.616†	8.0	0.1487 ug/L		0.12667	0.1487 ppb	0.12667	85.20%
Cr 267.716†	30.9	0.3290 ug/L		0.34685	0.3290 ppb	0.34685	105.41%
Cu 324.752†	127.2	0.3650 ug/L		0.14164	0.3650 ppb	0.14164	38.81%
Fe 238.204 Radial†	2.0	23.823 ug/L		21.3195	23.823 ppb	21.3195	89.49%
K 766.490 Radial†	159.4	27.776 ug/L		11.3216	27.776 ppb	11.3216	40.76%

Mg 279.077 IEC†	-0.9	-38.117 ug/L	76.9869	-38.117 ppb	76.9869	201.98%
Mn 257.610†	559.1	0.5763 ug/L	0.01726	0.5763 ppb	0.01726	3.00%
Mo 202.031†	8.6	0.5861 ug/L	0.85977	0.5861 ppb	0.85977	146.70%
Na 589.592 Radial†	41.0	11.759 ug/L	11.8604	11.759 ppb	11.8604	100.86%
Ni 231.604†	23.9	0.5428 ug/L	0.15845	0.5428 ppb	0.15845	29.19%
P 214.914†	8.7	4.3425 ug/L	5.31552	4.3425 ppb	5.31552	122.41%
Pb 220.353†	-4.3	-0.4675 ug/L	1.06583	-0.4675 ppb	1.06583	228.00%
S 181.975 Axial†	0.6	0.7300 ug/L	0.55311	0.7300 ppb	0.55311	75.77%
Sb 206.836†	3.9	1.2265 ug/L	1.70608	1.2265 ppb	1.70608	139.10%
Se 196.026†	0.7	0.4501 ug/L	4.83508	0.4501 ppb	4.83508	>999.9%
Si 251.611†	409.9	12.189 ug/L	0.2233	12.189 ppb	0.2233	1.83%
Sn 189.927†	2.8	0.4641 ug/L	0.85869	0.4641 ppb	0.85869	185.04%
Sr 421.552†	10.0	0.0676 ug/L	0.03598	0.0676 ppb	0.03598	53.20%
Ti 334.940†	246.3	0.3826 ug/L	0.06062	0.3826 ppb	0.06062	15.84%
Tl 190.801†	6.8	1.9571 ug/L	0.70985	1.9571 ppb	0.70985	36.27%
U 409.014†	72.8	2.3594 ug/L	1.13694	2.3594 ppb	1.13694	48.19%
V 292.402†	-19.6	-0.1280 ug/L	0.48388	-0.1280 ppb	0.48388	377.98%
Zn 213.857†	139.1	1.1836 ug/L	0.08418	1.1836 ppb	0.08418	7.11%
SiO2†	388.4	24.775 ug/L	0.8014	24.775 ppb	0.8014	3.23%

Sequence No.: 48

Sample ID: 1202021576|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 57

Date Collected: 2/3/2010 21:22:37

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021576|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4039.7	4039.7	102 %		21:24:50
1	Y RADIAL	4791.0	4791.0	105.6 %		21:24:50
1	Al 396.153Radial†	97925.9	96188.7	86389 ug/L	86389 ppb	21:24:30
1	Ca 317.933Radial†	49561.6	48567.0	96291 ug/L	96291 ppb	21:24:30
1	Fe 238.204 Radial†	15662.5	15341.5	182750 ug/L	182750 ppb	21:24:30
1	K 766.490 Radial†	236592.2	228891.1	39868 ug/L	39868 ppb	21:24:30
1	Mg 279.077 IEC†	887.4	866.6	37527 ug/L	37527 ppb	21:24:50
1	Na 589.592 Radial†	30824.6	31801.2	9118.5 ug/L	9118.5 ppb	21:24:30
1	Sr 421.552†	318784.1	312490.9	2110.3 ug/L	2110.3 ppb	21:24:30
1	Sc 361.383	877662.9	877662.9	101.49 %		21:25:51
1	Y 371.029	745707.7	745707.7	109.33 %		21:25:51
1	Ag 328.068†	53471.6	52250.4	302.48 ug/L	302.48 ppb	21:25:51
1	As 188.979†	2500.8	2499.5	1042.6 ug/L	1042.6 ppb	21:25:56
1	B 249.677†	66157.4	65791.7	1365.8 ug/L	1365.8 ppb	21:25:51
1	Ba 233.527†	255592.7	251853.5	1905.8 ug/L	1905.8 ppb	21:25:51
1	Be 313.107†	2196124.0	2167785.1	751.62 ug/L	751.62 ppb	21:25:51
1	Cd 226.502†	53620.1	53031.5	535.07 ug/L	535.07 ppb	21:25:56
1	Co 228.616†	46203.8	45611.0	834.87 ug/L	834.87 ppb	21:25:56
1	Cr 267.716†	210161.4	206983.0	2213.5 ug/L	2213.5 ppb	21:25:51
1	Cu 324.752†	625283.4	609243.5	1758.5 ug/L	1758.5 ppb	21:25:51
1	Mn 257.610†	4933284.5	4860272.8	4992.3 ug/L	4992.3 ppb	21:25:51
1	Mo 202.031†	6907.0	6802.6	478.81 ug/L	478.81 ppb	21:25:56
1	Ni 231.604†	54374.2	53491.7	1214.9 ug/L	1214.9 ppb	21:25:56
1	P 214.914†	15107.2	14650.6	6984.1 ug/L	6984.1 ppb	21:25:56
1	Pb 220.353†	7154.9	7120.9	781.99 ug/L	781.99 ppb	21:25:56
1	S 181.975 Axial†	2958.8	2863.4	3448.6 ug/L	3448.6 ppb	21:25:56
1	Sb 206.836†	4939.6	4831.5	1493.7 ug/L	1493.7 ppb	21:25:56
1	Se 196.026†	4202.9	4170.6	2823.9 ug/L	2823.9 ppb	21:25:56
1	Si 251.611†	625482.4	615798.3	18316 ug/L	18316 ppb	21:25:51
1	Sn 189.927†	6029.9	5923.6	979.50 ug/L	979.50 ppb	21:25:56
1	Ti 334.940†	3632016.5	3580320.5	5506.2 ug/L	5506.2 ppb	21:25:51
1	Tl 190.801†	3808.9	3796.1	1148.3 ug/L	1148.3 ppb	21:25:56
1	U 409.014†	-9644.7	-5178.2	-193.82 ug/L	-193.82 ppb	21:25:51
1	V 292.402†	172101.6	171279.5	1162.7 ug/L	1162.7 ppb	21:25:51
1	Zn 213.857†	647898.7	637629.5	5426.5 ug/L	5426.5 ppb	21:25:51
1	SiO2†	630413.2	620613.7	39598 ug/L	39598 ppb	21:26:31
2	Sc Radial	3706.5	3706.5	93.6 %		21:25:15
2	Y RADIAL	4441.2	4441.2	97.86 %		21:25:15
2	Al 396.153Radial†	98081.5	104986.5	94292 ug/L	94292 ppb	21:24:55
2	Ca 317.933Radial†	49613.3	52990.8	105060 ug/L	105060 ppb	21:24:55
2	Fe 238.204 Radial†	15694.5	16756.3	199600 ug/L	199600 ppb	21:24:55
2	K 766.490 Radial†	236540.0	249689.7	43491 ug/L	43491 ppb	21:24:55
2	Mg 279.077 IEC†	856.7	912.0	39484 ug/L	39484 ppb	21:25:15
2	Na 589.592 Radial†	30719.3	34405.8	9865.3 ug/L	9865.3 ppb	21:24:55
2	Sr 421.552†	318939.6	340756.2	2301.2 ug/L	2301.2 ppb	21:24:55
2	Sc 361.383	859748.2	859748.2	99.420 %		21:26:06
2	Y 371.029	731311.3	731311.3	107.22 %		21:26:06
2	Ag 328.068†	53707.6	53585.7	314.24 ug/L	314.24 ppb	21:26:06
2	As 188.979†	2561.8	2612.2	1090.8 ug/L	1090.8 ppb	21:26:11
2	B 249.677†	66470.2	67464.6	1398.5 ug/L	1398.5 ppb	21:26:06
2	Ba 233.527†	257539.2	259058.9	1960.6 ug/L	1960.6 ppb	21:26:06
2	Be 313.107†	2210411.7	2227244.5	772.25 ug/L	772.25 ppb	21:26:06
2	Cd 226.502†	53955.1	54469.3	548.35 ug/L	548.35 ppb	21:26:11
2	Co 228.616†	46641.5	46999.8	860.15 ug/L	860.15 ppb	21:26:11
2	Cr 267.716†	211621.2	212766.1	2275.6 ug/L	2275.6 ppb	21:26:06
2	Cu 324.752†	629617.0	626439.9	1808.7 ug/L	1808.7 ppb	21:26:06
2	Mn 257.610†	4970080.8	4998568.5	5135.5 ug/L	5135.5 ppb	21:26:06
2	Mo 202.031†	6957.8	6995.5	493.36 ug/L	493.36 ppb	21:26:11
2	Ni 231.604†	54735.0	54970.9	1248.5 ug/L	1248.5 ppb	21:26:11

2	P 214.914†	15236.4	15090.8	7186.7 ug/L	7186.7 ppb	21:26:11
2	Pb 220.353†	7195.9	7309.0	802.82 ug/L	802.82 ppb	21:26:11
2	S 181.975 Axial†	2970.7	2936.1	3535.1 ug/L	3535.1 ppb	21:26:11
2	Sb 206.836†	5019.8	5013.5	1549.6 ug/L	1549.6 ppb	21:26:11
2	Se 196.026†	4292.3	4346.9	2971.3 ug/L	2971.3 ppb	21:26:11
2	Si 251.611†	629364.0	632544.2	18814 ug/L	18814 ppb	21:26:06
2	Sn 189.927†	6081.8	6099.6	1009.7 ug/L	1009.7 ppb	21:26:11
2	Ti 334.940†	3658538.9	3681566.2	5662.6 ug/L	5662.6 ppb	21:26:06
2	Tl 190.801†	3838.3	3903.9	1180.9 ug/L	1180.9 ppb	21:26:11
2	U 409.014†	-9623.7	-5355.0	-201.62 ug/L	-201.62 ppb	21:26:06
2	V 292.402†	173193.5	175911.2	1192.4 ug/L	1192.4 ppb	21:26:06
2	Zn 213.857†	652051.2	655108.2	5574.1 ug/L	5574.1 ppb	21:26:06
2	SiO2†	629853.1	632993.3	40387 ug/L	40387 ppb	21:26:36
3	Sc Radial	4139.5	4139.5	105 %		21:25:40
3	Y RADIAL	4894.3	4894.3	107.8 %		21:25:40
3	Al 396.153Radial†	98479.1	94404.7	84786 ug/L	84786 ppb	21:25:20
3	Ca 317.933Radial†	49454.3	47293.6	93766 ug/L	93766 ppb	21:25:20
3	Fe 238.204 Radial†	15641.0	14950.9	178090 ug/L	178090 ppb	21:25:20
3	K 766.490 Radial†	235312.8	222078.7	38681 ug/L	38681 ppb	21:25:20
3	Mg 279.077 IEC†	860.2	819.6	35488 ug/L	35488 ppb	21:25:40
3	Na 589.592 Radial†	30621.8	30879.1	8854.1 ug/L	8854.1 ppb	21:25:20
3	Sr 421.552†	319815.0	305947.1	2066.1 ug/L	2066.1 ppb	21:25:20
3	Sc 361.383	858240.7	858240.7	99.246 %		21:26:20
3	Y 371.029	729646.5	729646.5	106.97 %		21:26:20
3	Ag 328.068†	53334.2	53304.2	305.85 ug/L	305.85 ppb	21:26:20
3	As 188.979†	2518.8	2573.4	1070.9 ug/L	1070.9 ppb	21:26:25
3	B 249.677†	66410.9	67522.2	1403.3 ug/L	1403.3 ppb	21:26:20
3	Ba 233.527†	256879.0	258848.7	1958.4 ug/L	1958.4 ppb	21:26:20
3	Be 313.107†	2198350.7	2218997.1	769.41 ug/L	769.41 ppb	21:26:20
3	Cd 226.502†	53694.0	54301.6	548.82 ug/L	548.82 ppb	21:26:25
3	Co 228.616†	46382.5	46821.3	857.17 ug/L	857.17 ppb	21:26:25
3	Cr 267.716†	211046.5	212560.9	2273.0 ug/L	2273.0 ppb	21:26:20
3	Cu 324.752†	625293.5	623195.9	1798.3 ug/L	1798.3 ppb	21:26:20
3	Mn 257.610†	4958099.3	4995276.7	5130.2 ug/L	5130.2 ppb	21:26:20
3	Mo 202.031†	6939.9	6989.8	491.17 ug/L	491.17 ppb	21:26:25
3	Ni 231.604†	54459.1	54789.6	1244.4 ug/L	1244.4 ppb	21:26:25
3	P 214.914†	15153.8	15034.5	7174.9 ug/L	7174.9 ppb	21:26:25
3	Pb 220.353†	7184.7	7310.4	802.79 ug/L	802.79 ppb	21:26:25
3	S 181.975 Axial†	2992.1	2963.0	3569.5 ug/L	3569.5 ppb	21:26:25
3	Sb 206.836†	4950.5	4952.5	1531.3 ug/L	1531.3 ppb	21:26:25
3	Se 196.026†	4238.3	4300.0	2879.7 ug/L	2879.7 ppb	21:26:25
3	Si 251.611†	626821.5	631094.3	18771 ug/L	18771 ppb	21:26:20
3	Sn 189.927†	6056.1	6084.5	1005.2 ug/L	1005.2 ppb	21:26:25
3	Ti 334.940†	3644811.7	3674198.3	5650.1 ug/L	5650.1 ppb	21:26:20
3	Tl 190.801†	3792.9	3864.9	1169.6 ug/L	1169.6 ppb	21:26:25
3	U 409.014†	-9475.6	-5222.8	-194.87 ug/L	-194.87 ppb	21:26:20
3	V 292.402†	172577.6	175596.7	1193.3 ug/L	1193.3 ppb	21:26:20
3	Zn 213.857†	649899.8	654092.4	5567.5 ug/L	5567.5 ppb	21:26:20
3	SiO2†	626241.8	630467.4	40226 ug/L	40226 ppb	21:26:42

Mean Data: 1202021576|944111|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	865217.3	100.05 %	1.249			1.25%
Sc Radial	3961.9	100 %	5.7			5.72%
Y 371.029	735555.2	107.84 %	1.295			1.20%
Y RADIAL	4708.8	103.8 %	5.23			5.04%
Ag 328.068†	53046.8	307.52 ug/L	6.058	307.52 ppb	6.058	1.97%
Al 396.153Radial†	98526.6	88489 ug/L	5089.1	88489 ppb	5089.1	5.75%
As 188.979†	2561.7	1068.1 ug/L	24.25	1068.1 ppb	24.25	2.27%
B 249.677†	66926.2	1389.2 ug/L	20.40	1389.2 ppb	20.40	1.47%
Ba 233.527†	256587.0	1941.6 ug/L	31.05	1941.6 ppb	31.05	1.60%
Be 313.107†	2204675.6	764.43 ug/L	11.180	764.43 ppb	11.180	1.46%
Ca 317.933Radial†	49617.2	98373 ug/L	5928.6	98373 ppb	5928.6	6.03%
Cd 226.502†	53934.2	544.08 ug/L	7.805	544.08 ppb	7.805	1.43%
Co 228.616†	46477.4	850.73 ug/L	13.815	850.73 ppb	13.815	1.62%
Cr 267.716†	210770.0	2254.0 ug/L	35.11	2254.0 ppb	35.11	1.56%
Cu 324.752†	619626.4	1788.5 ug/L	26.52	1788.5 ppb	26.52	1.48%
Fe 238.204 Radial†	15682.9	186810 ug/L	11313.1	186810 ppb	11313.1	6.06%
K 766.490 Radial†	233553.2	40680 ug/L	2505.6	40680 ppb	2505.6	6.16%

Mg 279.077 IEC†	866.1	37500 ug/L	1998.2	37500 ppb	1998.2	5.33%
Mn 257.610†	4951372.7	5086.0 ug/L	81.16	5086.0 ppb	81.16	1.60%
Mo 202.031†	6929.3	487.78 ug/L	7.846	487.78 ppb	7.846	1.61%
Na 589.592 Radial†	32362.0	9279.3 ug/L	524.43	9279.3 ppb	524.43	5.65%
Ni 231.604†	54417.4	1235.9 ug/L	18.32	1235.9 ppb	18.32	1.48%
P 214.914†	14925.3	7115.2 ug/L	113.72	7115.2 ppb	113.72	1.60%
Pb 220.353†	7246.8	795.86 ug/L	12.015	795.86 ppb	12.015	1.51%
S 181.975 Axial†	2920.8	3517.7 ug/L	62.26	3517.7 ppb	62.26	1.77%
Sb 206.836†	4932.5	1524.9 ug/L	28.53	1524.9 ppb	28.53	1.87%
Se 196.026†	4272.5	2891.6 ug/L	74.44	2891.6 ppb	74.44	2.57%
Si 251.611†	626478.9	18634 ug/L	276.0	18634 ppb	276.0	1.48%
Sn 189.927†	6035.9	998.12 ug/L	16.284	998.12 ppb	16.284	1.63%
Sr 421.552†	319731.4	2159.2 ug/L	124.93	2159.2 ppb	124.93	5.79%
Ti 334.940†	3645361.6	5606.3 ug/L	86.94	5606.3 ppb	86.94	1.55%
Tl 190.801†	3855.0	1166.2 ug/L	16.56	1166.2 ppb	16.56	1.42%
U 409.014†	-5252.0	-196.77 ug/L	4.232	-196.77 ppb	4.232	2.15%
V 292.402†	174262.5	1182.8 ug/L	17.42	1182.8 ppb	17.42	1.47%
Zn 213.857†	648943.4	5522.7 ug/L	83.39	5522.7 ppb	83.39	1.51%
SiO2†	628024.8	40070 ug/L	417.3	40070 ppb	417.3	1.04%

Sequence No.: 49

Sample ID: 245136001|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 58

Date Collected: 2/3/2010 21:28:52

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245136001|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3831.0	3831.0	96.7 %			21:31:06
1	Y RADIAL	4548.3	4548.3	100.2 %			21:30:46
1	Al 396.153Radial†	57492.4	59624.1	53564 ug/L		53564 ppb	21:30:46
1	Ca 317.933Radial†	5923.9	6107.1	12108 ug/L		12108 ppb	21:30:46
1	Fe 238.204 Radial†	7228.3	7459.9	88850 ug/L		88850 ppb	21:30:46
1	K 766.490 Radial†	53901.1	52685.4	9180.3 ug/L		9180.3 ppb	21:30:46
1	Mg 279.077 IEC†	210.6	214.4	9236.7 ug/L		9236.7 ppb	21:31:06
1	Na 589.592 Radial†	621.4	2227.4	638.68 ug/L		638.68 ppb	21:30:46
1	Sr 421.552†	16456.9	17010.6	114.82 ug/L		114.82 ppb	21:30:46
1	Sc 361.383	864159.3	864159.3	99.930 %			21:32:04
1	Y 371.029	719952.2	719952.2	105.55 %			21:32:04
1	Ag 328.068†	-5325.3	-5764.2	4.4382 ug/L		4.4382 ppb	21:32:09
1	As 188.979†	-71.6	-36.2	36.722 ug/L		36.722 ppb	21:32:29
1	B 249.677†	600.3	1207.5	11.126 ug/L		11.126 ppb	21:32:09
1	Ba 233.527†	101219.6	101308.1	766.39 ug/L		766.39 ppb	21:32:09
1	Be 313.107†	-11676.7	-7740.8	5.1430 ug/L		5.1430 ppb	21:32:09
1	Cd 226.502†	615.4	815.4	-0.6611 ug/L		-0.6611 ppb	21:32:29
1	Co 228.616†	1846.8	1934.5	27.832 ug/L		27.832 ppb	21:32:29
1	Cr 267.716†	6902.3	6818.0	74.747 ug/L		74.747 ppb	21:32:09
1	Cu 324.752†	20772.7	13938.8	44.768 ug/L		44.768 ppb	21:32:09
1	Mn 257.610†	2128988.3	2129978.8	2189.0 ug/L		2189.0 ppb	21:32:04
1	Mo 202.031†	-28.4	-31.2	4.9149 ug/L		4.9149 ppb	21:32:29
1	Ni 231.604†	2183.9	2102.3	47.745 ug/L		47.745 ppb	21:32:29
1	P 214.914†	1701.2	1467.9	679.95 ug/L		679.95 ppb	21:32:29
1	Pb 220.353†	749.3	821.0	92.966 ug/L		92.966 ppb	21:32:29
1	S 181.975 Axial†	369.7	318.1	374.85 ug/L		374.85 ppb	21:32:29
1	Sb 206.836†	77.1	41.6	-0.6824 ug/L		-0.6824 ppb	21:32:29
1	Se 196.026†	-471.6	-442.4	33.724 ug/L		33.724 ppb	21:32:29
1	Si 251.611†	630538.4	630488.1	18759 ug/L		18759 ppb	21:32:04
1	Sn 189.927†	-68.8	-86.5	-10.708 ug/L		-10.708 ppb	21:32:29
1	Ti 334.940†	2229420.4	2232668.0	3428.8 ug/L		3428.8 ppb	21:32:04
1	Tl 190.801†	-161.4	-118.3	4.5903 ug/L		4.5903 ppb	21:32:29
1	U 409.014†	-7519.2	-3199.7	-114.13 ug/L		-114.13 ppb	21:32:09
1	V 292.402†	22767.8	24491.5	153.36 ug/L		153.36 ppb	21:32:09
1	Zn 213.857†	27335.9	26609.9	218.64 ug/L		218.64 ppb	21:32:09
1	SiO2†	627000.7	626905.0	40012 ug/L		40012 ppb	21:33:37
2	Sc Radial	3847.5	3847.5	97.2 %			21:31:31
2	Y RADIAL	4668.5	4668.5	102.9 %			21:31:11
2	Al 396.153Radial†	58702.8	60615.4	54454 ug/L		54454 ppb	21:31:11
2	Ca 317.933Radial†	6046.5	6207.0	12306 ug/L		12306 ppb	21:31:11
2	Fe 238.204 Radial†	7401.4	7606.0	90590 ug/L		90590 ppb	21:31:11
2	K 766.490 Radial†	55104.9	53685.8	9354.7 ug/L		9354.7 ppb	21:31:11
2	Mg 279.077 IEC†	213.8	216.7	9337.1 ug/L		9337.1 ppb	21:31:31
2	Na 589.592 Radial†	604.3	2207.1	632.86 ug/L		632.86 ppb	21:31:11
2	Sr 421.552†	16767.6	17257.6	116.49 ug/L		116.49 ppb	21:31:11
2	Sc 361.383	866868.0	866868.0	100.24 %			21:32:35
2	Y 371.029	723579.0	723579.0	106.08 %			21:32:35
2	Ag 328.068†	-5269.3	-5691.6	5.3486 ug/L		5.3486 ppb	21:32:40
2	As 188.979†	-70.0	-34.4	37.764 ug/L		37.764 ppb	21:33:00
2	B 249.677†	585.3	1190.7	10.488 ug/L		10.488 ppb	21:32:40
2	Ba 233.527†	100838.6	100611.5	761.19 ug/L		761.19 ppb	21:32:40
2	Be 313.107†	-11949.6	-7976.4	5.0544 ug/L		5.0544 ppb	21:32:40
2	Cd 226.502†	621.4	819.5	-0.7982 ug/L		-0.7982 ppb	21:33:00
2	Co 228.616†	1813.5	1895.5	27.090 ug/L		27.090 ppb	21:33:00
2	Cr 267.716†	6921.4	6815.6	74.752 ug/L		74.752 ppb	21:32:40
2	Cu 324.752†	20927.1	14027.9	45.114 ug/L		45.114 ppb	21:32:40
2	Mn 257.610†	2130382.7	2124712.8	2183.8 ug/L		2183.8 ppb	21:32:35
2	Mo 202.031†	-10.0	-12.8	6.3081 ug/L		6.3081 ppb	21:33:00
2	Ni 231.604†	2156.7	2068.2	46.972 ug/L		46.972 ppb	21:33:00

2	P 214.914†	1712.2	1473.5	681.60 ug/L	681.60 ppb	21:33:00
2	Pb 220.353†	773.8	843.1	95.418 ug/L	95.418 ppb	21:33:00
2	S 181.975 Axial†	388.8	335.9	396.24 ug/L	396.24 ppb	21:33:00
2	Sb 206.836†	93.2	57.5	4.1927 ug/L	4.1927 ppb	21:33:00
2	Se 196.026†	-481.0	-450.3	34.801 ug/L	34.801 ppb	21:33:00
2	Si 251.611†	632033.6	630008.1	18745 ug/L	18745 ppb	21:32:35
2	Sn 189.927†	-63.7	-81.2	-9.7917 ug/L	-9.7917 ppb	21:33:00
2	Ti 334.940†	2234042.3	2230307.5	3425.2 ug/L	3425.2 ppb	21:32:35
2	Tl 190.801†	-170.9	-127.2	1.9787 ug/L	1.9787 ppb	21:33:00
2	U 409.014†	-7401.1	-3058.3	-109.74 ug/L	-109.74 ppb	21:32:40
2	V 292.402†	22845.5	24497.8	153.19 ug/L	153.19 ppb	21:32:40
2	Zn 213.857†	27340.9	26529.4	217.79 ug/L	217.79 ppb	21:32:40
2	SiO2†	638057.4	635974.3	40591 ug/L	40591 ppb	21:33:42
3	Sc Radial	3839.6	3839.6	97.0 %		21:31:56
3	Y RADIAL	4504.2	4504.2	99.25 %		21:31:36
3	Al 396.153Radial†	56837.3	58814.7	52837 ug/L	52837 ppb	21:31:36
3	Ca 317.933Radial†	5843.2	6010.1	11916 ug/L	11916 ppb	21:31:36
3	Fe 238.204 Radial†	7161.2	7373.9	87825 ug/L	87825 ppb	21:31:36
3	K 766.490 Radial†	53284.6	51924.2	9047.7 ug/L	9047.7 ppb	21:31:36
3	Mg 279.077 IEC†	207.2	210.4	9064.8 ug/L	9064.8 ppb	21:31:56
3	Na 589.592 Radial†	573.0	2176.1	623.97 ug/L	623.97 ppb	21:31:36
3	Sr 421.552†	16192.7	16699.9	112.73 ug/L	112.73 ppb	21:31:36
3	Sc 361.383	870498.2	870498.2	100.66 %		21:33:06
3	Y 371.029	725600.5	725600.5	106.38 %		21:33:06
3	Ag 328.068†	-5251.0	-5651.5	4.6101 ug/L	4.6101 ppb	21:33:11
3	As 188.979†	-68.4	-32.5	37.893 ug/L	37.893 ppb	21:33:31
3	B 249.677†	501.6	1105.1	9.1188 ug/L	9.1188 ppb	21:33:11
3	Ba 233.527†	100924.8	100277.7	758.59 ug/L	758.59 ppb	21:33:11
3	Be 313.107†	-11709.7	-7688.4	5.1611 ug/L	5.1611 ppb	21:33:11
3	Cd 226.502†	622.3	817.8	-0.5313 ug/L	-0.5313 ppb	21:33:31
3	Co 228.616†	1813.5	1887.9	26.979 ug/L	26.979 ppb	21:33:31
3	Cr 267.716†	6921.0	6786.3	74.390 ug/L	74.390 ppb	21:33:11
3	Cu 324.752†	20905.4	13919.3	44.661 ug/L	44.661 ppb	21:33:11
3	Mn 257.610†	2144827.8	2130200.3	2189.2 ug/L	2189.2 ppb	21:33:06
3	Mo 202.031†	-14.6	-17.3	5.7815 ug/L	5.7815 ppb	21:33:31
3	Ni 231.604†	2179.6	2082.0	47.285 ug/L	47.285 ppb	21:33:31
3	P 214.914†	1702.4	1456.7	674.91 ug/L	674.91 ppb	21:33:31
3	Pb 220.353†	770.4	836.5	94.602 ug/L	94.602 ppb	21:33:31
3	S 181.975 Axial†	380.7	326.2	384.86 ug/L	384.86 ppb	21:33:31
3	Sb 206.836†	85.3	49.2	1.6777 ug/L	1.6777 ppb	21:33:31
3	Se 196.026†	-493.1	-460.3	20.870 ug/L	20.870 ppb	21:33:31
3	Si 251.611†	635457.3	630779.9	18768 ug/L	18768 ppb	21:33:06
3	Sn 189.927†	-72.4	-89.6	-11.259 ug/L	-11.259 ppb	21:33:31
3	Ti 334.940†	2245860.5	2232754.1	3428.9 ug/L	3428.9 ppb	21:33:06
3	Tl 190.801†	-160.0	-115.7	5.3249 ug/L	5.3249 ppb	21:33:31
3	U 409.014†	-7715.8	-3340.2	-118.58 ug/L	-118.58 ppb	21:33:11
3	V 292.402†	22943.2	24499.8	153.57 ug/L	153.57 ppb	21:33:11
3	Zn 213.857†	27412.2	26486.4	217.69 ug/L	217.69 ppb	21:33:11
3	SiO2†	631841.8	627145.3	40027 ug/L	40027 ppb	21:33:48

Mean Data: 245136001|944111|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	867175.2	100.28 %	0.368			0.37%
Sc Radial	3839.4	97.0 %	0.21			0.21%
Y 371.029	723043.9	106.00 %	0.420			0.40%
Y RADIAL	4573.7	100.8 %	1.87			1.86%
Ag 328.068†	-5702.4	4.7990 ug/L	0.48371	4.7990 ppb	0.48371	10.08%
Al 396.153Radial†	59684.8	53618 ug/L	810.2	53618 ppb	810.2	1.51%
As 188.979†	-34.3	37.460 ug/L	0.6420	37.460 ppb	0.6420	1.71%
B 249.677†	1167.8	10.244 ug/L	1.0255	10.244 ppb	1.0255	10.01%
Ba 233.527†	100732.5	762.06 ug/L	3.969	762.06 ppb	3.969	0.52%
Be 313.107†	-7801.9	5.1195 ug/L	0.05711	5.1195 ppb	0.05711	1.12%
Ca 317.933Radial†	6108.1	12110 ug/L	195.2	12110 ppb	195.2	1.61%
Cd 226.502†	817.6	-0.6635 ug/L	0.13345	-0.6635 ppb	0.13345	20.11%
Co 228.616†	1906.0	27.301 ug/L	0.4633	27.301 ppb	0.4633	1.70%
Cr 267.716†	6806.6	74.630 ug/L	0.2076	74.630 ppb	0.2076	0.28%
Cu 324.752†	13962.0	44.848 ug/L	0.2367	44.848 ppb	0.2367	0.53%
Fe 238.204 Radial†	7479.9	89088 ug/L	1397.7	89088 ppb	1397.7	1.57%
K 766.490 Radial†	52765.1	9194.2 ug/L	153.97	9194.2 ppb	153.97	1.67%

Mg 279.077 IEC†	213.8	9212.9 ug/L	137.73	9212.9 ppb	137.73	1.49%
Mn 257.610†	2128297.3	2187.3 ug/L	3.05	2187.3 ppb	3.05	0.14%
Mo 202.031†	-20.4	5.6682 ug/L	0.70352	5.6682 ppb	0.70352	12.41%
Na 589.592 Radial†	2203.6	631.84 ug/L	7.406	631.84 ppb	7.406	1.17%
Ni 231.604†	2084.2	47.334 ug/L	0.3887	47.334 ppb	0.3887	0.82%
P 214.914†	1466.0	678.82 ug/L	3.485	678.82 ppb	3.485	0.51%
Pb 220.353†	833.5	94.329 ug/L	1.2484	94.329 ppb	1.2484	1.32%
S 181.975 Axial†	326.7	385.32 ug/L	10.705	385.32 ppb	10.705	2.78%
Sb 206.836†	49.4	1.7293 ug/L	2.43793	1.7293 ppb	2.43793	140.97%
Se 196.026†	-451.0	29.798 ug/L	7.7511	29.798 ppb	7.7511	26.01%
Si 251.611†	630425.4	18757 ug/L	11.6	18757 ppb	11.6	0.06%
Sn 189.927†	-85.8	-10.586 ug/L	0.7413	-10.586 ppb	0.7413	7.00%
Sr 421.552†	16989.4	114.68 ug/L	1.886	114.68 ppb	1.886	1.64%
Ti 334.940†	2231909.9	3427.7 ug/L	2.12	3427.7 ppb	2.12	0.06%
Tl 190.801†	-120.4	3.9646 ug/L	1.75864	3.9646 ppb	1.75864	44.36%
U 409.014†	-3199.4	-114.15 ug/L	4.416	-114.15 ppb	4.416	3.87%
V 292.402†	24496.4	153.37 ug/L	0.193	153.37 ppb	0.193	0.13%
Zn 213.857†	26541.9	218.04 ug/L	0.524	218.04 ppb	0.524	0.24%
SiO2†	630008.2	40210 ug/L	329.8	40210 ppb	329.8	0.82%

Sequence No.: 50
 Sample ID: 1202021572|944111|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 59
 Date Collected: 2/3/2010 21:35:59
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202021572|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3844.2	3844.2	97.1 %		21:38:13
1	Y RADIAL	4386.8	4386.8	96.66 %		21:37:53
1	Al 396.153Radial†	61069.4	63105.2	56691 ug/L	56691 ppb	21:37:53
1	Ca 317.933Radial†	6297.1	6470.5	12829 ug/L	12829 ppb	21:37:53
1	Fe 238.204 Radial†	8011.0	8240.5	98148 ug/L	98148 ppb	21:37:53
1	K 766.490 Radial†	58919.0	57663.5	10048 ug/L	10048 ppb	21:37:53
1	Mg 279.077 IEC†	238.1	241.9	10427 ug/L	10427 ppb	21:38:13
1	Na 589.592 Radial†	353.1	1948.8	558.80 ug/L	558.80 ppb	21:37:53
1	Sr 421.552†	18472.6	19028.7	128.45 ug/L	128.45 ppb	21:37:53
1	Sc 361.383	873432.4	873432.4	101.00 %		21:39:11
1	Y 371.029	729887.6	729887.6	107.01 %		21:39:11
1	Ag 328.068†	-5850.9	-6228.0	5.5475 ug/L	5.5475 ppb	21:39:16
1	As 188.979†	-75.0	-38.8	42.807 ug/L	42.807 ppb	21:39:36
1	B 249.677†	479.1	1081.2	6.9220 ug/L	6.9220 ppb	21:39:16
1	Ba 233.527†	114777.6	113656.1	859.76 ug/L	859.76 ppb	21:39:16
1	Be 313.107†	-14827.1	-10735.8	5.4133 ug/L	5.4133 ppb	21:39:16
1	Cd 226.502†	679.7	872.6	-1.0207 ug/L	-1.0207 ppb	21:39:36
1	Co 228.616†	2037.6	2103.7	29.692 ug/L	29.692 ppb	21:39:36
1	Cr 267.716†	7955.4	7787.3	85.297 ug/L	85.297 ppb	21:39:16
1	Cu 324.752†	22170.6	15102.2	48.594 ug/L	48.594 ppb	21:39:16
1	Mn 257.610†	2294011.0	2270744.4	2334.0 ug/L	2334.0 ppb	21:39:11
1	Mo 202.031†	-34.6	-37.1	5.2473 ug/L	5.2473 ppb	21:39:36
1	Ni 231.604†	2401.5	2294.5	52.110 ug/L	52.110 ppb	21:39:36
1	P 214.914†	1555.7	1305.8	590.20 ug/L	590.20 ppb	21:39:36
1	Pb 220.353†	789.8	853.1	96.272 ug/L	96.272 ppb	21:39:36
1	S 181.975 Axial†	401.4	345.5	407.49 ug/L	407.49 ppb	21:39:36
1	Sb 206.836†	80.7	44.4	-1.8250 ug/L	-1.8250 ppb	21:39:36
1	Se 196.026†	-528.6	-493.9	34.483 ug/L	34.483 ppb	21:39:36
1	Si 251.611†	713404.6	705832.6	21001 ug/L	21001 ppb	21:39:11
1	Sn 189.927†	-63.0	-80.0	-9.3899 ug/L	-9.3899 ppb	21:39:36
1	Ti 334.940†	2627580.5	2603189.4	3997.7 ug/L	3997.7 ppb	21:39:11
1	Tl 190.801†	-193.7	-148.5	1.2892 ug/L	1.2892 ppb	21:39:36
1	U 409.014†	-7298.0	-2900.8	-105.51 ug/L	-105.51 ppb	21:39:16
1	V 292.402†	26377.6	27823.6	174.57 ug/L	174.57 ppb	21:39:16
1	Zn 213.857†	26894.9	25882.8	211.49 ug/L	211.49 ppb	21:39:16
1	SiO2†	709616.7	702039.5	44807 ug/L	44807 ppb	21:40:44
2	Sc Radial	3824.9	3824.9	96.6 %		21:38:38
2	Y RADIAL	4615.4	4615.4	101.7 %		21:38:18
2	Al 396.153Radial†	59545.6	61843.7	55558 ug/L	55558 ppb	21:38:18
2	Ca 317.933Radial†	6118.6	6318.3	12527 ug/L	12527 ppb	21:38:18
2	Fe 238.204 Radial†	7752.4	8014.3	95453 ug/L	95453 ppb	21:38:18
2	K 766.490 Radial†	57585.2	56587.6	9860.5 ug/L	9860.5 ppb	21:38:18
2	Mg 279.077 IEC†	236.1	241.2	10395 ug/L	10395 ppb	21:38:38
2	Na 589.592 Radial†	370.9	1969.2	564.62 ug/L	564.62 ppb	21:38:18
2	Sr 421.552†	18025.0	18660.9	125.97 ug/L	125.97 ppb	21:38:18
2	Sc 361.383	867913.9	867913.9	100.36 %		21:39:42
2	Y 371.029	726605.1	726605.1	106.53 %		21:39:42
2	Ag 328.068†	-5683.6	-6098.1	5.2223 ug/L	5.2223 ppb	21:39:47
2	As 188.979†	-88.5	-52.7	37.021 ug/L	37.021 ppb	21:40:07
2	B 249.677†	418.1	1023.4	6.1300 ug/L	6.1300 ppb	21:39:47
2	Ba 233.527†	113159.8	112766.8	852.97 ug/L	852.97 ppb	21:39:47
2	Be 313.107†	-14772.2	-10774.4	5.4394 ug/L	5.4394 ppb	21:39:47
2	Cd 226.502†	686.2	883.3	-0.6293 ug/L	-0.6293 ppb	21:40:07
2	Co 228.616†	2045.7	2124.7	30.084 ug/L	30.084 ppb	21:40:07
2	Cr 267.716†	7844.6	7727.1	84.598 ug/L	84.598 ppb	21:39:47
2	Cu 324.752†	21855.0	14927.3	47.948 ug/L	47.948 ppb	21:39:47
2	Mn 257.610†	2289997.8	2281187.2	2344.4 ug/L	2344.4 ppb	21:39:42
2	Mo 202.031†	-13.9	-16.7	6.4199 ug/L	6.4199 ppb	21:40:07
2	Ni 231.604†	2427.0	2334.9	53.030 ug/L	53.030 ppb	21:40:07

2	P 214.914†	1545.6	1305.5	592.03 ug/L	592.03 ppb	21:40:07
2	Pb 220.353†	787.0	855.3	96.523 ug/L	96.523 ppb	21:40:07
2	S 181.975 Axial†	399.1	345.8	407.99 ug/L	407.99 ppb	21:40:07
2	Sb 206.836†	88.3	52.4	0.6487 ug/L	0.6487 ppb	21:40:07
2	Se 196.026†	-517.6	-486.2	30.364 ug/L	30.364 ppb	21:40:07
2	Si 251.611†	711677.5	708602.8	21083 ug/L	21083 ppb	21:39:42
2	Sn 189.927†	-72.1	-89.5	-11.017 ug/L	-11.017 ppb	21:40:07
2	Ti 334.940†	2622296.9	2614466.3	4015.0 ug/L	4015.0 ppb	21:39:42
2	Tl 190.801†	-194.5	-150.6	0.9120 ug/L	0.9120 ppb	21:40:07
2	U 409.014†	-7177.4	-2826.5	-102.80 ug/L	-102.80 ppb	21:39:47
2	V 292.402†	25956.5	27570.0	173.21 ug/L	173.21 ppb	21:39:47
2	Zn 213.857†	26471.4	25630.2	209.59 ug/L	209.59 ppb	21:39:47
2	SiO2†	712572.6	709451.9	45280 ug/L	45280 ppb	21:40:49
3	Sc Radial	3836.8	3836.8	96.9 %		21:39:03
3	Y RADIAL	4491.2	4491.2	98.96 %		21:38:43
3	Al 396.153Radial†	58589.4	60667.1	54501 ug/L	54501 ppb	21:38:43
3	Ca 317.933Radial†	6030.0	6207.4	12307 ug/L	12307 ppb	21:38:43
3	Fe 238.204 Radial†	7667.5	7901.9	94115 ug/L	94115 ppb	21:38:43
3	K 766.490 Radial†	56839.0	55634.0	9694.3 ug/L	9694.3 ppb	21:38:43
3	Mg 279.077 IEC†	235.3	239.6	10327 ug/L	10327 ppb	21:39:03
3	Na 589.592 Radial†	289.3	1883.7	540.13 ug/L	540.13 ppb	21:38:43
3	Sr 421.552†	17633.0	18198.9	122.85 ug/L	122.85 ppb	21:38:43
3	Sc 361.383	868636.5	868636.5	100.45 %		21:40:13
3	Y 371.029	725147.9	725147.9	106.31 %		21:40:13
3	Ag 328.068†	-5769.0	-6178.4	4.4109 ug/L	4.4109 ppb	21:40:18
3	As 188.979†	-78.1	-42.3	40.704 ug/L	40.704 ppb	21:40:38
3	B 249.677†	523.2	1127.7	8.5651 ug/L	8.5651 ppb	21:40:18
3	Ba 233.527†	113675.4	113186.3	856.09 ug/L	856.09 ppb	21:40:18
3	Be 313.107†	-14652.2	-10642.8	5.4913 ug/L	5.4913 ppb	21:40:18
3	Cd 226.502†	672.7	869.4	-0.6368 ug/L	-0.6368 ppb	21:40:38
3	Co 228.616†	2017.9	2095.2	29.550 ug/L	29.550 ppb	21:40:38
3	Cr 267.716†	7897.6	7773.3	85.067 ug/L	85.067 ppb	21:40:18
3	Cu 324.752†	21900.1	14954.1	47.955 ug/L	47.955 ppb	21:40:18
3	Mn 257.610†	2295642.3	2284908.4	2348.1 ug/L	2348.1 ppb	21:40:13
3	Mo 202.031†	-24.6	-27.3	5.5911 ug/L	5.5911 ppb	21:40:38
3	Ni 231.604†	2440.5	2346.4	53.291 ug/L	53.291 ppb	21:40:38
3	P 214.914†	1552.8	1311.4	595.81 ug/L	595.81 ppb	21:40:38
3	Pb 220.353†	809.4	877.0	98.795 ug/L	98.795 ppb	21:40:38
3	S 181.975 Axial†	397.5	343.8	405.80 ug/L	405.80 ppb	21:40:38
3	Sb 206.836†	83.4	47.4	-0.8479 ug/L	-0.8479 ppb	21:40:38
3	Se 196.026†	-528.2	-496.3	20.768 ug/L	20.768 ppb	21:40:38
3	Si 251.611†	712329.0	708661.6	21085 ug/L	21085 ppb	21:40:13
3	Sn 189.927†	-64.9	-82.2	-9.8999 ug/L	-9.8999 ppb	21:40:38
3	Ti 334.940†	2626484.2	2616461.3	4018.0 ug/L	4018.0 ppb	21:40:13
3	Tl 190.801†	-186.6	-142.5	3.2558 ug/L	3.2558 ppb	21:40:38
3	U 409.014†	-7231.0	-2874.0	-104.19 ug/L	-104.19 ppb	21:40:18
3	V 292.402†	25994.8	27586.7	173.50 ug/L	173.50 ppb	21:40:18
3	Zn 213.857†	26634.5	25770.6	210.92 ug/L	210.92 ppb	21:40:18
3	SiO2†	706913.0	703226.8	44883 ug/L	44883 ppb	21:40:55

Mean Data: 1202021572|944111|1

Analyte	Mean Corrected	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	869994.3	100.61 %		0.347				0.34%
Sc Radial	3835.3	96.9 %		0.24				0.25%
Y 371.029	727213.5	106.62 %		0.356				0.33%
Y RADIAL	4497.8	99.10 %		2.522				2.54%
Ag 328.068†	-6168.2	5.0602 ug/L		0.58535	5.0602 ppb		0.58535	11.57%
Al 396.153Radial†	61872.0	55583 ug/L		1095.4	55583 ppb		1095.4	1.97%
As 188.979†	-44.6	40.177 ug/L		2.9284	40.177 ppb		2.9284	7.29%
B 249.677†	1077.4	7.2057 ug/L		1.24210	7.2057 ppb		1.24210	17.24%
Ba 233.527†	113203.1	856.27 ug/L		3.397	856.27 ppb		3.397	0.40%
Be 313.107†	-10717.7	5.4480 ug/L		0.03969	5.4480 ppb		0.03969	0.73%
Ca 317.933Radial†	6332.1	12554 ug/L		261.9	12554 ppb		261.9	2.09%
Cd 226.502†	875.1	-0.7623 ug/L		0.22385	-0.7623 ppb		0.22385	29.37%
Co 228.616†	2107.9	29.775 ug/L		0.2769	29.775 ppb		0.2769	0.93%
Cr 267.716†	7762.6	84.987 ug/L		0.3562	84.987 ppb		0.3562	0.42%
Cu 324.752†	14994.5	48.166 ug/L		0.3709	48.166 ppb		0.3709	0.77%
Fe 238.204 Radial†	8052.3	95905 ug/L		2054.0	95905 ppb		2054.0	2.14%
K 766.490 Radial†	56628.4	9867.6 ug/L		176.94	9867.6 ppb		176.94	1.79%

Mg 279.077 IEC†	240.9	10383 ug/L	51.0	10383 ppb	51.0	0.49%
Mn 257.610†	2278946.6	2342.2 ug/L	7.32	2342.2 ppb	7.32	0.31%
Mo 202.031†	-27.0	5.7527 ug/L	0.60278	5.7527 ppb	0.60278	10.48%
Na 589.592 Radial†	1933.9	554.52 ug/L	12.798	554.52 ppb	12.798	2.31%
Ni 231.604†	2325.3	52.810 ug/L	0.6200	52.810 ppb	0.6200	1.17%
P 214.914†	1307.6	592.68 ug/L	2.859	592.68 ppb	2.859	0.48%
Pb 220.353†	861.8	97.196 ug/L	1.3899	97.196 ppb	1.3899	1.43%
S 181.975 Axial†	345.0	407.10 ug/L	1.147	407.10 ppb	1.147	0.28%
Sb 206.836†	48.1	-0.6747 ug/L	1.24590	-0.6747 ppb	1.24590	184.65%
Se 196.026†	-492.1	28.538 ug/L	7.0375	28.538 ppb	7.0375	24.66%
Si 251.611†	707699.0	21056 ug/L	48.1	21056 ppb	48.1	0.23%
Sn 189.927†	-83.9	-10.102 ug/L	0.8323	-10.102 ppb	0.8323	8.24%
Sr 421.552†	18629.5	125.76 ug/L	2.807	125.76 ppb	2.807	2.23%
Ti 334.940†	2611372.3	4010.2 ug/L	10.96	4010.2 ppb	10.96	0.27%
Tl 190.801†	-147.2	1.8190 ug/L	1.25851	1.8190 ppb	1.25851	69.19%
U 409.014†	-2867.1	-104.17 ug/L	1.359	-104.17 ppb	1.359	1.30%
V 292.402†	27660.1	173.76 ug/L	0.717	173.76 ppb	0.717	0.41%
Zn 213.857†	25761.2	210.66 ug/L	0.977	210.66 ppb	0.977	0.46%
SiO2†	704906.1	44990 ug/L	254.1	44990 ppb	254.1	0.56%

Sequence No.: 51

Sample ID: 1202021574|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 60

Date Collected: 2/3/2010 21:43:06

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021574|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3928.3	3928.3	99.2 %		21:45:19
1	Y RADIAL	4547.3	4547.3	100.2 %		21:45:19
1	Al 396.153Radial†	115482.2	116608.4	104730 ug/L	104730 ppb	21:44:59
1	Ca 317.933Radial†	8459.5	8511.4	16875 ug/L	16875 ppb	21:44:59
1	Fe 238.204 Radial†	8771.3	8830.1	105180 ug/L	105180 ppb	21:44:59
1	K 766.490 Radial†	98792.7	96558.0	16825 ug/L	16825 ppb	21:44:59
1	Mg 279.077 IEC†	412.7	412.8	17857 ug/L	17857 ppb	21:45:19
1	Na 589.592 Radial†	16671.5	18390.9	5273.3 ug/L	5273.3 ppb	21:44:59
1	Sr 421.552†	87569.7	88274.9	596.21 ug/L	596.21 ppb	21:44:59
1	Sc 361.383	868951.0	868951.0	100.48 %		21:46:18
1	Y 371.029	723854.8	723854.8	106.12 %		21:46:18
1	Ag 328.068†	103357.4	102423.9	502.62 ug/L	502.62 ppb	21:46:18
1	As 188.979†	1169.5	1199.3	524.88 ug/L	524.88 ppb	21:46:38
1	B 249.677†	23287.9	23782.4	486.79 ug/L	486.79 ppb	21:46:18
1	Ba 233.527†	174749.3	173924.8	1315.2 ug/L	1315.2 ppb	21:46:18
1	Be 313.107†	1470644.5	1467497.8	511.88 ug/L	511.88 ppb	21:46:18
1	Cd 226.502†	47051.8	47024.5	480.09 ug/L	480.09 ppb	21:46:18
1	Co 228.616†	27222.6	27177.7	494.59 ug/L	494.59 ppb	21:46:38
1	Cr 267.716†	54069.0	53719.3	575.96 ug/L	575.96 ppb	21:46:18
1	Cu 324.752†	200194.5	192380.9	557.53 ug/L	557.53 ppb	21:46:18
1	Mn 257.610†	2607798.6	2594732.5	2666.1 ug/L	2666.1 ppb	21:46:18
1	Mo 202.031†	6682.6	6647.6	461.28 ug/L	461.28 ppb	21:46:38
1	Ni 231.604†	23343.5	23147.7	525.64 ug/L	525.64 ppb	21:46:38
1	P 214.914†	2579.3	2332.4	1021.8 ug/L	1021.8 ppb	21:46:38
1	Pb 220.353†	4978.3	5025.5	563.23 ug/L	563.23 ppb	21:46:38
1	S 181.975 Axial†	4438.7	4365.3	5262.7 ug/L	5262.7 ppb	21:46:38
1	Sb 206.836†	1386.7	1344.5	412.05 ug/L	412.05 ppb	21:46:38
1	Se 196.026†	316.5	344.5	511.12 ug/L	511.12 ppb	21:46:38
1	Si 251.611†	896940.5	892126.3	26538 ug/L	26538 ppb	21:46:18
1	Sn 189.927†	2904.3	2872.6	470.75 ug/L	470.75 ppb	21:46:38
1	Ti 334.940†	3316993.1	3302694.6	5071.2 ug/L	5071.2 ppb	21:46:18
1	Tl 190.801†	1451.2	1487.5	476.34 ug/L	476.34 ppb	21:46:38
1	U 409.014†	7851.0	12137.9	380.64 ug/L	380.64 ppb	21:46:18
1	V 292.402†	97508.9	98746.6	672.06 ug/L	672.06 ppb	21:46:18
1	Zn 213.857†	84253.9	83102.6	696.56 ug/L	696.56 ppb	21:46:18
1	SiO2†	885822.2	881018.8	56218 ug/L	56218 ppb	21:47:39
2	Sc Radial	3900.1	3900.1	98.5 %		21:45:44
2	Y RADIAL	4521.1	4521.1	99.62 %		21:45:44
2	Al 396.153Radial†	117134.5	119130.1	107000 ug/L	107000 ppb	21:45:24
2	Ca 317.933Radial†	8575.5	8691.0	17231 ug/L	17231 ppb	21:45:24
2	Fe 238.204 Radial†	8883.6	9008.3	107310 ug/L	107310 ppb	21:45:24
2	K 766.490 Radial†	100080.2	98587.2	17179 ug/L	17179 ppb	21:45:24
2	Mg 279.077 IEC†	416.0	419.1	18130 ug/L	18130 ppb	21:45:44
2	Na 589.592 Radial†	16970.7	18816.6	5395.4 ug/L	5395.4 ppb	21:45:24
2	Sr 421.552†	88810.6	90174.8	609.05 ug/L	609.05 ppb	21:45:24
2	Sc 361.383	865092.0	865092.0	100.04 %		21:46:45
2	Y 371.029	720931.4	720931.4	105.69 %		21:46:45
2	Ag 328.068†	102806.8	102332.4	502.93 ug/L	502.93 ppb	21:46:45
2	As 188.979†	1168.3	1203.3	526.89 ug/L	526.89 ppb	21:47:05
2	B 249.677†	23247.9	23845.9	487.79 ug/L	487.79 ppb	21:46:45
2	Ba 233.527†	174103.1	174054.6	1316.2 ug/L	1316.2 ppb	21:46:45
2	Be 313.107†	1463557.3	1466941.9	511.69 ug/L	511.69 ppb	21:46:45
2	Cd 226.502†	46769.4	46951.1	479.10 ug/L	479.10 ppb	21:46:45
2	Co 228.616†	27204.5	27280.5	496.48 ug/L	496.48 ppb	21:47:05
2	Cr 267.716†	53849.3	53739.6	576.23 ug/L	576.23 ppb	21:46:45
2	Cu 324.752†	199239.2	192314.8	557.46 ug/L	557.46 ppb	21:46:45
2	Mn 257.610†	2595817.0	2594332.2	2665.9 ug/L	2665.9 ppb	21:46:45
2	Mo 202.031†	6699.7	6694.3	464.63 ug/L	464.63 ppb	21:47:05
2	Ni 231.604†	23344.9	23252.8	528.03 ug/L	528.03 ppb	21:47:05

2	P 214.914†	2605.5	2370.0	1039.9 ug/L	1039.9 ppb	21:47:05
2	Pb 220.353†	4979.3	5048.6	566.06 ug/L	566.06 ppb	21:47:05
2	S 181.975 Axial†	4419.1	4365.5	5262.5 ug/L	5262.5 ppb	21:47:05
2	Sb 206.836†	1381.4	1345.3	412.37 ug/L	412.37 ppb	21:47:05
2	Se 196.026†	330.9	360.3	526.19 ug/L	526.19 ppb	21:47:05
2	Si 251.611†	892461.0	891630.3	26523 ug/L	26523 ppb	21:46:45
2	Sn 189.927†	2924.6	2905.9	476.24 ug/L	476.24 ppb	21:47:05
2	Ti 334.940†	3301550.9	3301983.4	5070.2 ug/L	5070.2 ppb	21:46:45
2	Tl 190.801†	1462.9	1505.5	481.48 ug/L	481.48 ppb	21:47:05
2	U 409.014†	7526.7	11848.6	371.01 ug/L	371.01 ppb	21:46:45
2	V 292.402†	97219.4	98890.1	672.78 ug/L	672.78 ppb	21:46:45
2	Zn 213.857†	83989.6	83212.4	697.28 ug/L	697.28 ppb	21:46:45
2	SiO2†	896255.8	895380.7	57135 ug/L	57135 ppb	21:47:45
3	Sc Radial	3908.5	3908.5	98.7 %		21:46:09
3	Y RADIAL	4512.7	4512.7	99.43 %		21:46:09
3	Al 396.153Radial†	116199.2	117926.8	105920 ug/L	105920 ppb	21:45:49
3	Ca 317.933Radial†	8496.2	8591.9	17035 ug/L	17035 ppb	21:45:49
3	Fe 238.204 Radial†	8807.8	8912.1	106160 ug/L	106160 ppb	21:45:49
3	K 766.490 Radial†	99015.6	97290.1	16953 ug/L	16953 ppb	21:45:49
3	Mg 279.077 IEC†	414.7	416.9	18036 ug/L	18036 ppb	21:46:09
3	Na 589.592 Radial†	16685.1	18490.1	5301.7 ug/L	5301.7 ppb	21:45:49
3	Sr 421.552†	88079.0	89239.6	602.73 ug/L	602.73 ppb	21:45:49
3	Sc 361.383	868675.7	868675.7	100.45 %		21:47:13
3	Y 371.029	722661.7	722661.7	105.95 %		21:47:13
3	Ag 328.068†	103325.7	102424.9	502.96 ug/L	502.96 ppb	21:47:13
3	As 188.979†	1166.0	1196.2	523.98 ug/L	523.98 ppb	21:47:33
3	B 249.677†	23321.7	23823.4	487.51 ug/L	487.51 ppb	21:47:13
3	Ba 233.527†	174964.8	174194.4	1317.2 ug/L	1317.2 ppb	21:47:13
3	Be 313.107†	1470319.9	1467638.5	511.95 ug/L	511.95 ppb	21:47:13
3	Cd 226.502†	47019.1	47006.8	479.80 ug/L	479.80 ppb	21:47:13
3	Co 228.616†	27143.3	27107.4	493.25 ug/L	493.25 ppb	21:47:33
3	Cr 267.716†	54152.4	53819.3	577.05 ug/L	577.05 ppb	21:47:13
3	Cu 324.752†	200379.0	192627.8	558.29 ug/L	558.29 ppb	21:47:13
3	Mn 257.610†	2610160.3	2597906.1	2669.4 ug/L	2669.4 ppb	21:47:13
3	Mo 202.031†	6689.5	6656.5	461.96 ug/L	461.96 ppb	21:47:33
3	Ni 231.604†	23291.3	23103.1	524.63 ug/L	524.63 ppb	21:47:33
3	P 214.914†	2560.7	2314.7	1012.2 ug/L	1012.2 ppb	21:47:33
3	Pb 220.353†	4986.3	5035.0	564.44 ug/L	564.44 ppb	21:47:33
3	S 181.975 Axial†	4410.4	4338.6	5230.1 ug/L	5230.1 ppb	21:47:33
3	Sb 206.836†	1365.9	1324.2	405.79 ug/L	405.79 ppb	21:47:33
3	Se 196.026†	321.1	349.2	516.65 ug/L	516.65 ppb	21:47:33
3	Si 251.611†	897839.3	893303.9	26573 ug/L	26573 ppb	21:47:13
3	Sn 189.927†	2915.1	2884.4	472.70 ug/L	472.70 ppb	21:47:33
3	Ti 334.940†	3321102.8	3307832.0	5079.1 ug/L	5079.1 ppb	21:47:13
3	Tl 190.801†	1461.7	1498.3	479.53 ug/L	479.53 ppb	21:47:33
3	U 409.014†	7754.7	12044.5	377.50 ug/L	377.50 ppb	21:47:13
3	V 292.402†	97626.0	98893.9	672.94 ug/L	672.94 ppb	21:47:13
3	Zn 213.857†	84332.9	83207.8	697.37 ug/L	697.37 ppb	21:47:13
3	SiO2†	885831.1	881307.0	56236 ug/L	56236 ppb	21:47:51

Mean Data: 1202021574|944111|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	867572.9	100.33 %		0.249			0.25%
Sc Radial	3912.3	98.8 %		0.37			0.37%
Y 371.029	722482.6	105.92 %		0.215			0.20%
Y RADIAL	4527.0	99.75 %		0.398			0.40%
Ag 328.068†	102393.7	502.83 ug/L		0.187	502.83 ppb	0.187	0.04%
Al 396.153Radial†	117888.5	105880 ug/L		1133.0	105880 ppb	1133.0	1.07%
As 188.979†	1199.6	525.25 ug/L		1.491	525.25 ppb	1.491	0.28%
B 249.677†	23817.2	487.37 ug/L		0.515	487.37 ppb	0.515	0.11%
Ba 233.527†	174057.9	1316.2 ug/L		1.03	1316.2 ppb	1.03	0.08%
Be 313.107†	1467359.4	511.84 ug/L		0.134	511.84 ppb	0.134	0.03%
Ca 317.933Radial†	8598.1	17047 ug/L		178.3	17047 ppb	178.3	1.05%
Cd 226.502†	46994.2	479.66 ug/L		0.507	479.66 ppb	0.507	0.11%
Co 228.616†	27188.5	494.77 ug/L		1.621	494.77 ppb	1.621	0.33%
Cr 267.716†	53759.4	576.41 ug/L		0.568	576.41 ppb	0.568	0.10%
Cu 324.752†	192441.2	557.76 ug/L		0.462	557.76 ppb	0.462	0.08%
Fe 238.204 Radial†	8916.8	106220 ug/L		1062.2	106220 ppb	1062.2	1.00%
K 766.490 Radial†	97478.5	16986 ug/L		179.1	16986 ppb	179.1	1.05%

Mg 279.077 IEC†	416.2	18008 ug/L	138.5	18008 ppb	138.5	0.77%
Mn 257.610†	2595656.9	2667.1 ug/L	1.99	2667.1 ppb	1.99	0.07%
Mo 202.031†	6666.1	462.62 ug/L	1.772	462.62 ppb	1.772	0.38%
Na 589.592 Radial†	18565.9	5323.5 ug/L	63.86	5323.5 ppb	63.86	1.20%
Ni 231.604†	23167.9	526.10 ug/L	1.745	526.10 ppb	1.745	0.33%
P 214.914†	2339.0	1024.7 ug/L	14.05	1024.7 ppb	14.05	1.37%
Pb 220.353†	5036.4	564.58 ug/L	1.420	564.58 ppb	1.420	0.25%
S 181.975 Axial†	4356.5	5251.8 ug/L	18.73	5251.8 ppb	18.73	0.36%
Sb 206.836†	1338.0	410.07 ug/L	3.711	410.07 ppb	3.711	0.90%
Se 196.026†	351.3	517.99 ug/L	7.624	517.99 ppb	7.624	1.47%
Si 251.611†	892353.5	26545 ug/L	25.6	26545 ppb	25.6	0.10%
Sn 189.927†	2887.6	473.23 ug/L	2.783	473.23 ppb	2.783	0.59%
Sr 421.552†	89229.8	602.66 ug/L	6.416	602.66 ppb	6.416	1.06%
Ti 334.940†	3304170.0	5073.5 ug/L	4.89	5073.5 ppb	4.89	0.10%
Tl 190.801†	1497.1	479.12 ug/L	2.595	479.12 ppb	2.595	0.54%
U 409.014†	12010.3	376.39 ug/L	4.912	376.39 ppb	4.912	1.31%
V 292.402†	98843.5	672.60 ug/L	0.468	672.60 ppb	0.468	0.07%
Zn 213.857†	83174.3	697.07 ug/L	0.444	697.07 ppb	0.444	0.06%
SiO2†	885902.2	56530 ug/L	523.9	56530 ppb	523.9	0.93%

Sequence No.: 52

Sample ID: 1202021575|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 61

Date Collected: 2/3/2010 21:50:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021575|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3867.4	3867.4	97.7 %			21:52:17
1	Y RADIAL	4462.7	4462.7	98.33 %			21:52:17
1	Al 396.153Radial†	116114.8	119091.3	106960 ug/L		106960 ppb	21:51:57
1	Ca 317.933Radial†	8738.9	8931.9	17709 ug/L		17709 ppb	21:51:57
1	Fe 238.204 Radial†	8841.7	9041.6	107700 ug/L		107700 ppb	21:51:57
1	K 766.490 Radial†	98186.1	97506.7	16990 ug/L		16990 ppb	21:51:57
1	Mg 279.077 IEC†	410.5	417.0	18042 ug/L		18042 ppb	21:52:17
1	Na 589.592 Radial†	16668.2	18652.5	5348.3 ug/L		5348.3 ppb	21:51:57
1	Sr 421.552†	88014.1	90121.3	608.68 ug/L		608.68 ppb	21:51:57
1	Sc 361.383	826530.5	826530.5	95.579 %			21:53:20
1	Y 371.029	696000.4	696000.4	102.04 %			21:53:20
1	Ag 328.068†	104002.9	108378.3	530.60 ug/L		530.60 ppb	21:53:20
1	As 188.979†	1201.1	1292.1	564.05 ug/L		564.05 ppb	21:53:40
1	B 249.677†	23337.9	25024.2	512.68 ug/L		512.68 ppb	21:53:20
1	Ba 233.527†	178054.1	186307.9	1408.6 ug/L		1408.6 ppb	21:53:20
1	Be 313.107†	1480973.9	1553419.9	542.03 ug/L		542.03 ppb	21:53:15
1	Cd 226.502†	47123.6	49502.9	505.71 ug/L		505.71 ppb	21:53:20
1	Co 228.616†	27536.6	28896.7	525.82 ug/L		525.82 ppb	21:53:40
1	Cr 267.716†	54652.5	57091.4	612.03 ug/L		612.03 ppb	21:53:20
1	Cu 324.752†	201337.7	203802.2	590.43 ug/L		590.43 ppb	21:53:20
1	Mn 257.610†	2707989.2	2832753.7	2910.0 ug/L		2910.0 ppb	21:53:15
1	Mo 202.031†	6763.7	7073.7	490.52 ug/L		490.52 ppb	21:53:40
1	Ni 231.604†	23871.9	24892.9	565.28 ug/L		565.28 ppb	21:53:40
1	P 214.914†	2764.4	2657.8	1179.6 ug/L		1179.6 ppb	21:53:40
1	Pb 220.353†	5121.5	5429.6	607.75 ug/L		607.75 ppb	21:53:40
1	S 181.975 Axial†	4468.4	4623.2	5574.2 ug/L		5574.2 ppb	21:53:40
1	Sb 206.836†	1412.0	1441.7	441.91 ug/L		441.91 ppb	21:53:40
1	Se 196.026†	302.7	346.2	519.84 ug/L		519.84 ppb	21:53:40
1	Si 251.611†	782905.5	818629.0	24351 ug/L		24351 ppb	21:53:20
1	Sn 189.927†	2957.8	3077.0	504.10 ug/L		504.10 ppb	21:53:40
1	Ti 334.940†	3389630.3	3548110.9	5448.1 ug/L		5448.1 ppb	21:53:15
1	Tl 190.801†	1466.1	1577.1	506.04 ug/L		506.04 ppb	21:53:40
1	U 409.014†	8433.2	13148.0	413.06 ug/L		413.06 ppb	21:53:20
1	V 292.402†	97742.2	103971.1	708.03 ug/L		708.03 ppb	21:53:20
1	Zn 213.857†	86216.0	89458.8	750.39 ug/L		750.39 ppb	21:53:20
1	SiO2†	804933.3	841632.7	53704 ug/L		53704 ppb	21:54:50
2	Sc Radial	3796.0	3796.0	95.9 %			21:52:42
2	Y RADIAL	4388.4	4388.4	96.69 %			21:52:42
2	Al 396.153Radial†	113177.1	118262.2	106220 ug/L		106220 ppb	21:52:22
2	Ca 317.933Radial†	8559.1	8912.6	17670 ug/L		17670 ppb	21:52:22
2	Fe 238.204 Radial†	8650.4	9012.2	107350 ug/L		107350 ppb	21:52:22
2	K 766.490 Radial†	96716.8	97864.3	17053 ug/L		17053 ppb	21:52:22
2	Mg 279.077 IEC†	409.1	423.5	18324 ug/L		18324 ppb	21:52:42
2	Na 589.592 Radial†	16439.5	18734.8	5371.9 ug/L		5371.9 ppb	21:52:22
2	Sr 421.552†	86318.7	90047.3	608.18 ug/L		608.18 ppb	21:52:22
2	Sc 361.383	830654.8	830654.8	96.056 %			21:53:52
2	Y 371.029	700964.7	700964.7	102.77 %			21:53:52
2	Ag 328.068†	104517.0	108373.4	530.46 ug/L		530.46 ppb	21:53:52
2	As 188.979†	1206.9	1291.9	563.66 ug/L		563.66 ppb	21:54:12
2	B 249.677†	23549.6	25123.4	514.84 ug/L		514.84 ppb	21:53:52
2	Ba 233.527†	178918.7	186283.1	1408.4 ug/L		1408.4 ppb	21:53:52
2	Be 313.107†	1483618.9	1548480.0	540.29 ug/L		540.29 ppb	21:53:47
2	Cd 226.502†	47414.2	49560.6	506.35 ug/L		506.35 ppb	21:53:52
2	Co 228.616†	27781.3	29008.4	527.96 ug/L		527.96 ppb	21:54:12
2	Cr 267.716†	54966.4	57134.2	612.47 ug/L		612.47 ppb	21:53:52
2	Cu 324.752†	202292.5	203750.3	590.26 ug/L		590.26 ppb	21:53:52
2	Mn 257.610†	2714295.0	2825250.9	2902.3 ug/L		2902.3 ppb	21:53:47
2	Mo 202.031†	6832.0	7109.7	492.94 ug/L		492.94 ppb	21:54:12
2	Ni 231.604†	24077.6	24983.0	567.32 ug/L		567.32 ppb	21:54:12

2	P 214.914†	2805.9	2686.7	1194.4 ug/L	1194.4 ppb	21:54:12
2	Pb 220.353†	5191.7	5476.1	612.72 ug/L	612.72 ppb	21:54:12
2	S 181.975 Axial†	4525.4	4659.3	5618.1 ug/L	5618.1 ppb	21:54:12
2	Sb 206.836†	1426.9	1450.0	444.62 ug/L	444.62 ppb	21:54:12
2	Se 196.026†	310.5	352.7	522.34 ug/L	522.34 ppb	21:54:12
2	Si 251.611†	786557.5	818363.9	24343 ug/L	24343 ppb	21:53:52
2	Sn 189.927†	2977.6	3082.2	504.94 ug/L	504.94 ppb	21:54:12
2	Ti 334.940†	3391002.9	3531931.4	5423.2 ug/L	5423.2 ppb	21:53:47
2	Tl 190.801†	1479.7	1583.7	507.67 ug/L	507.67 ppb	21:54:12
2	U 409.014†	8731.0	13414.2	421.74 ug/L	421.74 ppb	21:53:52
2	V 292.402†	98399.9	104148.0	709.39 ug/L	709.39 ppb	21:53:52
2	Zn 213.857†	86718.0	89533.6	751.05 ug/L	751.05 ppb	21:53:52
2	SiO2†	801343.1	833713.6	53198 ug/L	53198 ppb	21:54:55
3	Sc Radial	3863.3	3863.3	97.6 %		21:53:07
3	Y RADIAL	4471.1	4471.1	98.52 %		21:53:07
3	Al 396.153Radial†	118181.0	121334.8	108980 ug/L	108980 ppb	21:52:47
3	Ca 317.933Radial†	8882.2	9088.2	18019 ug/L	18019 ppb	21:52:47
3	Fe 238.204 Radial†	9023.6	9237.7	110040 ug/L	110040 ppb	21:52:47
3	K 766.490 Radial†	99764.0	99230.3	17291 ug/L	17291 ppb	21:52:47
3	Mg 279.077 IEC†	415.5	422.6	18280 ug/L	18280 ppb	21:53:07
3	Na 589.592 Radial†	16847.6	18854.4	5406.2 ug/L	5406.2 ppb	21:52:47
3	Sr 421.552†	89610.5	91852.9	620.38 ug/L	620.38 ppb	21:52:47
3	Sc 361.383	830264.3	830264.3	96.011 %		21:54:24
3	Y 371.029	699878.0	699878.0	102.61 %		21:54:24
3	Ag 328.068†	104777.6	108696.0	532.83 ug/L	532.83 ppb	21:54:24
3	As 188.979†	1196.9	1282.1	560.80 ug/L	560.80 ppb	21:54:44
3	B 249.677†	23530.9	25115.4	514.25 ug/L	514.25 ppb	21:54:24
3	Ba 233.527†	179230.8	186695.8	1411.6 ug/L	1411.6 ppb	21:54:24
3	Be 313.107†	1489051.3	1554864.6	542.52 ug/L	542.52 ppb	21:54:18
3	Cd 226.502†	47568.7	49744.8	507.99 ug/L	507.99 ppb	21:54:24
3	Co 228.616†	27410.1	28635.3	520.92 ug/L	520.92 ppb	21:54:44
3	Cr 267.716†	55054.7	57253.1	613.80 ug/L	613.80 ppb	21:54:24
3	Cu 324.752†	202181.1	203733.3	590.36 ug/L	590.36 ppb	21:54:24
3	Mn 257.610†	2723029.6	2835677.4	2913.2 ug/L	2913.2 ppb	21:54:18
3	Mo 202.031†	6758.7	7036.6	488.18 ug/L	488.18 ppb	21:54:44
3	Ni 231.604†	23786.0	24691.1	560.70 ug/L	560.70 ppb	21:54:44
3	P 214.914†	2768.2	2648.7	1173.6 ug/L	1173.6 ppb	21:54:44
3	Pb 220.353†	5119.4	5403.3	605.08 ug/L	605.08 ppb	21:54:44
3	S 181.975 Axial†	4452.7	4585.8	5528.7 ug/L	5528.7 ppb	21:54:44
3	Sb 206.836†	1407.0	1430.0	438.13 ug/L	438.13 ppb	21:54:44
3	Se 196.026†	307.2	349.5	528.81 ug/L	528.81 ppb	21:54:44
3	Si 251.611†	787533.3	819765.3	24385 ug/L	24385 ppb	21:54:24
3	Sn 189.927†	2965.7	3071.3	503.27 ug/L	503.27 ppb	21:54:44
3	Ti 334.940†	3404890.9	3548056.6	5448.0 ug/L	5448.0 ppb	21:54:18
3	Tl 190.801†	1464.6	1568.7	503.66 ug/L	503.66 ppb	21:54:44
3	U 409.014†	8449.3	13125.2	412.05 ug/L	412.05 ppb	21:54:24
3	V 292.402†	98319.3	104112.2	708.63 ug/L	708.63 ppb	21:54:24
3	Zn 213.857†	86841.0	89704.1	752.30 ug/L	752.30 ppb	21:54:24
3	SiO2†	796528.6	829091.4	52903 ug/L	52903 ppb	21:55:01

Mean Data: 1202021575|944111|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	829149.9	95.882 %		0.2633				0.27%
Sc Radial	3842.2	97.0 %		1.01				1.04%
Y 371.029	698947.7	102.47 %		0.383				0.37%
Y RADIAL	4440.7	97.85 %		1.003				1.02%
Ag 328.068†	108482.5	531.30 ug/L		1.331	531.30 ppb		1.331	0.25%
Al 396.153Radial†	119562.7	107390 ug/L		1428.2	107390 ppb		1428.2	1.33%
As 188.979†	1288.7	562.83 ug/L		1.773	562.83 ppb		1.773	0.32%
B 249.677†	25087.6	513.92 ug/L		1.116	513.92 ppb		1.116	0.22%
Ba 233.527†	186428.9	1409.5 ug/L		1.79	1409.5 ppb		1.79	0.13%
Be 313.107†	1552254.8	541.62 ug/L		1.173	541.62 ppb		1.173	0.22%
Ca 317.933Radial†	8977.6	17799 ug/L		190.9	17799 ppb		190.9	1.07%
Cd 226.502†	49602.8	506.69 ug/L		1.175	506.69 ppb		1.175	0.23%
Co 228.616†	28846.8	524.90 ug/L		3.608	524.90 ppb		3.608	0.69%
Cr 267.716†	186428.9	612.77 ug/L		0.922	612.77 ppb		0.922	0.15%
Cu 324.752†	203761.9	590.35 ug/L		0.086	590.35 ppb		0.086	0.01%
Fe 238.204 Radial†	9097.2	108370 ug/L		1459.5	108370 ppb		1459.5	1.35%
K 766.490 Radial†	98200.4	17111 ug/L		158.5	17111 ppb		158.5	0.93%

Mg 279.077 IEC†	421.0	18215 ug/L	151.7	18215 ppb	151.7	0.83%
Mn 257.610†	2831227.3	2908.5 ug/L	5.62	2908.5 ppb	5.62	0.19%
Mo 202.031†	7073.3	490.54 ug/L	2.381	490.54 ppb	2.381	0.49%
Na 589.592 Radial†	18747.3	5375.5 ug/L	29.11	5375.5 ppb	29.11	0.54%
Ni 231.604†	24855.7	564.43 ug/L	3.394	564.43 ppb	3.394	0.60%
P 214.914†	2664.4	1182.5 ug/L	10.70	1182.5 ppb	10.70	0.90%
Pb 220.353†	5436.3	608.52 ug/L	3.874	608.52 ppb	3.874	0.64%
S 181.975 Axial†	4622.8	5573.7 ug/L	44.72	5573.7 ppb	44.72	0.80%
Sb 206.836†	1440.6	441.55 ug/L	3.259	441.55 ppb	3.259	0.74%
Se 196.026†	349.5	523.66 ug/L	4.628	523.66 ppb	4.628	0.88%
Si 251.611†	818919.4	24360 ug/L	22.2	24360 ppb	22.2	0.09%
Sn 189.927†	3076.8	504.10 ug/L	0.840	504.10 ppb	0.840	0.17%
Sr 421.552†	90673.8	612.41 ug/L	6.901	612.41 ppb	6.901	1.13%
Ti 334.940†	3542699.6	5439.8 ug/L	14.34	5439.8 ppb	14.34	0.26%
Tl 190.801†	1576.5	505.79 ug/L	2.015	505.79 ppb	2.015	0.40%
U 409.014†	13229.1	415.61 ug/L	5.326	415.61 ppb	5.326	1.28%
V 292.402†	104077.1	708.68 ug/L	0.682	708.68 ppb	0.682	0.10%
Zn 213.857†	89565.5	751.25 ug/L	0.965	751.25 ppb	0.965	0.13%
SiO2†	834812.6	53268 ug/L	404.8	53268 ppb	404.8	0.76%

Sequence No.: 53

Sample ID: 1202021573|944111|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 62

Date Collected: 2/3/2010 21:57:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021573|944111|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3798.0	3798.0	95.9 %		21:59:25
1	Y RADIAL	4307.3	4307.3	94.91 %		21:59:05
1	Al 396.153Radial†	11275.7	11952.4	10737 ug/L	10737 ppb	21:59:05
1	Ca 317.933Radial†	1199.7	1234.6	2447.8 ug/L	2447.8 ppb	21:59:25
1	Fe 238.204 Radial†	1447.8	1497.8	17839 ug/L	17839 ppb	21:59:25
1	K 766.490 Radial†	13059.5	10585.7	1844.5 ug/L	1844.5 ppb	21:59:05
1	Mg 279.077 IEC†	40.6	39.1	1681.9 ug/L	1681.9 ppb	21:59:25
1	Na 589.592 Radial†	-1181.6	353.1	101.26 ug/L	101.26 ppb	21:59:05
1	Sr 421.552†	3221.6	3358.5	22.670 ug/L	22.670 ppb	21:59:05
1	Sc 361.383	901668.5	901668.5	104.27 %		22:00:22
1	Y 371.029	716533.6	716533.6	105.05 %		22:00:22
1	Ag 328.068†	-649.0	-1057.6	1.3232 ug/L	1.3232 ppb	22:00:27
1	As 188.979†	-37.8	-0.8	9.5863 ug/L	9.5863 ppb	22:00:47
1	B 249.677†	-276.3	341.8	4.3470 ug/L	4.3470 ppb	22:00:27
1	Ba 233.527†	20371.2	19555.4	147.95 ug/L	147.95 ppb	22:00:27
1	Be 313.107†	-5459.9	-1292.3	1.0599 ug/L	1.0599 ppb	22:00:27
1	Cd 226.502†	-50.4	151.3	-0.2593 ug/L	-0.2593 ppb	22:00:47
1	Co 228.616†	293.5	367.9	5.2641 ug/L	5.2641 ppb	22:00:47
1	Cr 267.716†	1454.1	1305.5	14.322 ug/L	14.322 ppb	22:00:27
1	Cu 324.752†	9631.9	2389.4	7.8045 ug/L	7.8045 ppb	22:00:27
1	Mn 257.610†	435656.0	417331.2	428.95 ug/L	428.95 ppb	22:00:22
1	Mo 202.031†	10.8	7.6	1.9298 ug/L	1.9298 ppb	22:00:47
1	Ni 231.604†	522.7	418.1	9.4966 ug/L	9.4966 ppb	22:00:47
1	P 214.914†	508.7	253.4	115.70 ug/L	115.70 ppb	22:00:47
1	Pb 220.353†	89.1	156.7	17.771 ug/L	17.771 ppb	22:00:47
1	S 181.975 Axial†	117.4	60.7	71.415 ug/L	71.415 ppb	22:00:47
1	Sb 206.836†	55.1	17.3	2.6820 ug/L	2.6820 ppb	22:00:47
1	Se 196.026†	-119.0	-84.6	9.0365 ug/L	9.0365 ppb	22:00:47
1	Si 251.611†	125124.1	119513.0	3555.9 ug/L	3555.9 ppb	22:00:27
1	Sn 189.927†	-17.4	-34.3	-4.9019 ug/L	-4.9019 ppb	22:00:47
1	Ti 334.940†	447090.1	430484.3	661.13 ug/L	661.13 ppb	22:00:22
1	Tl 190.801†	-58.0	-12.4	3.8810 ug/L	3.8810 ppb	22:00:47
1	U 409.014†	-4636.8	-122.3	-6.0330 ug/L	-6.0330 ppb	22:00:22
1	V 292.402†	3104.7	4685.4	29.254 ug/L	29.254 ppb	22:00:27
1	Zn 213.857†	5895.3	4908.9	40.191 ug/L	40.191 ppb	22:00:27
1	SiO2†	128487.1	122695.4	7830.9 ug/L	7830.9 ppb	22:01:54
2	Sc Radial	3803.4	3803.4	96.0 %		21:59:50
2	Y RADIAL	4348.1	4348.1	95.81 %		21:59:30
2	Al 396.153Radial†	11541.6	12212.7	10971 ug/L	10971 ppb	21:59:30
2	Ca 317.933Radial†	1185.7	1218.2	2415.3 ug/L	2415.3 ppb	21:59:50
2	Fe 238.204 Radial†	1443.3	1490.9	17757 ug/L	17757 ppb	21:59:50
2	K 766.490 Radial†	13156.8	10667.9	1858.9 ug/L	1858.9 ppb	21:59:30
2	Mg 279.077 IEC†	43.4	41.9	1803.7 ug/L	1803.7 ppb	21:59:50
2	Na 589.592 Radial†	-1160.2	377.2	108.15 ug/L	108.15 ppb	21:59:30
2	Sr 421.552†	3256.4	3390.1	22.883 ug/L	22.883 ppb	21:59:30
2	Sc 361.383	868703.3	868703.3	100.46 %		22:00:52
2	Y 371.029	690345.3	690345.3	101.21 %		22:00:52
2	Ag 328.068†	-737.6	-1169.4	0.7963 ug/L	0.7963 ppb	22:00:57
2	As 188.979†	-37.6	-2.0	9.3911 ug/L	9.3911 ppb	22:01:18
2	B 249.677†	-308.7	299.5	3.4591 ug/L	3.4591 ppb	22:00:57
2	Ba 233.527†	20585.5	20510.1	155.15 ug/L	155.15 ppb	22:00:57
2	Be 313.107†	-5468.7	-1499.8	1.0593 ug/L	1.0593 ppb	22:00:57
2	Cd 226.502†	-32.8	167.0	-0.0873 ug/L	-0.0873 ppb	22:01:18
2	Co 228.616†	291.7	376.8	5.3679 ug/L	5.3679 ppb	22:01:18
2	Cr 267.716†	1450.4	1354.8	14.849 ug/L	14.849 ppb	22:00:57
2	Cu 324.752†	9648.6	2756.5	8.8549 ug/L	8.8549 ppb	22:00:57
2	Mn 257.610†	439693.7	437206.1	449.28 ug/L	449.28 ppb	22:00:52
2	Mo 202.031†	3.6	0.7	1.4561 ug/L	1.4561 ppb	22:01:18
2	Ni 231.604†	512.8	427.2	9.7030 ug/L	9.7030 ppb	22:01:18

2	P 214.914†	520.1	283.2	130.81 ug/L	130.81 ppb	22:01:18
2	Pb 220.353†	82.7	153.5	17.479 ug/L	17.479 ppb	22:01:18
2	S 181.975 Axial†	113.7	61.3	72.115 ug/L	72.115 ppb	22:01:18
2	Sb 206.836†	45.2	9.5	0.1784 ug/L	0.1784 ppb	22:01:18
2	Se 196.026†	-125.3	-95.3	3.0301 ug/L	3.0301 ppb	22:01:18
2	Si 251.611†	126040.4	124978.9	3718.5 ug/L	3718.5 ppb	22:00:57
2	Sn 189.927†	-5.8	-23.4	-3.1358 ug/L	-3.1358 ppb	22:01:18
2	Ti 334.940†	450963.6	450611.8	692.02 ug/L	692.02 ppb	22:00:52
2	Tl 190.801†	-64.7	-21.2	1.7310 ug/L	1.7310 ppb	22:01:18
2	U 409.014†	-4522.8	-177.5	-7.8171 ug/L	-7.8171 ppb	22:00:52
2	V 292.402†	3216.6	4909.9	30.783 ug/L	30.783 ppb	22:00:57
2	Zn 213.857†	5889.9	5118.1	41.985 ug/L	41.985 ppb	22:00:57
2	SiO2†	128796.0	127679.1	8149.0 ug/L	8149.0 ppb	22:01:59
3	Sc Radial	3914.1	3914.1	98.8 %		22:00:15
3	Y RADIAL	4356.0	4356.0	95.98 %		21:59:55
3	Al 396.153Radial†	11320.0	11648.5	10464 ug/L	10464 ppb	21:59:55
3	Ca 317.933Radial†	1183.4	1181.0	2341.4 ug/L	2341.4 ppb	22:00:15
3	Fe 238.204 Radial†	1433.2	1438.2	17130 ug/L	17130 ppb	22:00:15
3	K 766.490 Radial†	13024.7	10146.7	1768.1 ug/L	1768.1 ppb	21:59:55
3	Mg 279.077 IEC†	43.6	40.8	1757.4 ug/L	1757.4 ppb	22:00:15
3	Na 589.592 Radial†	-1182.1	389.2	111.60 ug/L	111.60 ppb	21:59:55
3	Sr 421.552†	3263.9	3301.7	22.287 ug/L	22.287 ppb	21:59:55
3	Sc 361.383	929004.1	929004.1	107.43 %		22:01:23
3	Y 371.029	737867.9	737867.9	108.18 %		22:01:23
3	Ag 328.068†	-587.0	-981.6	1.4231 ug/L	1.4231 ppb	22:01:28
3	As 188.979†	-39.0	-0.8	9.1908 ug/L	9.1908 ppb	22:01:48
3	B 249.677†	-293.4	333.7	4.2888 ug/L	4.2888 ppb	22:01:28
3	Ba 233.527†	19395.1	18071.9	136.75 ug/L	136.75 ppb	22:01:28
3	Be 313.107†	-5260.0	-952.2	1.1154 ug/L	1.1154 ppb	22:01:28
3	Cd 226.502†	-51.4	151.8	-0.1807 ug/L	-0.1807 ppb	22:01:48
3	Co 228.616†	297.4	363.3	5.2388 ug/L	5.2388 ppb	22:01:48
3	Cr 267.716†	1388.7	1203.6	13.218 ug/L	13.218 ppb	22:01:28
3	Cu 324.752†	9195.8	1711.6	5.8199 ug/L	5.8199 ppb	22:01:28
3	Mn 257.610†	431239.0	400925.4	412.08 ug/L	412.08 ppb	22:01:23
3	Mo 202.031†	12.2	8.5	1.9390 ug/L	1.9390 ppb	22:01:48
3	Ni 231.604†	512.7	394.0	8.9488 ug/L	8.9488 ppb	22:01:48
3	P 214.914†	518.6	248.3	114.01 ug/L	114.01 ppb	22:01:48
3	Pb 220.353†	108.7	172.4	19.500 ug/L	19.500 ppb	22:01:48
3	S 181.975 Axial†	118.2	58.1	68.359 ug/L	68.359 ppb	22:01:48
3	Sb 206.836†	58.7	19.1	3.3450 ug/L	3.3450 ppb	22:01:48
3	Se 196.026†	-124.4	-86.3	5.9674 ug/L	5.9674 ppb	22:01:48
3	Si 251.611†	118348.1	109674.5	3263.2 ug/L	3263.2 ppb	22:01:28
3	Sn 189.927†	-17.7	-34.1	-4.8888 ug/L	-4.8888 ppb	22:01:48
3	Ti 334.940†	442018.7	413146.6	634.49 ug/L	634.49 ppb	22:01:23
3	Tl 190.801†	-73.5	-25.2	-0.0587 ug/L	-0.0587 ppb	22:01:48
3	U 409.014†	-4672.2	-24.3	-2.7716 ug/L	-2.7716 ppb	22:01:23
3	V 292.402†	3019.1	4518.1	28.233 ug/L	28.233 ppb	22:01:28
3	Zn 213.857†	5544.3	4415.8	36.048 ug/L	36.048 ppb	22:01:28
3	SiO2†	127390.9	118049.1	7534.4 ug/L	7534.4 ppb	22:02:04

Mean Data: 1202021573|944111|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	899792.0	104.05 %	3.492			3.36%
Sc Radial	3838.5	96.9 %	1.65			1.71%
Y 371.029	714915.6	104.81 %	3.490			3.33%
Y RADIAL	4337.2	95.57 %	0.576			0.60%
Ag 328.068†	-1069.5	1.1809 ug/L	0.33677	1.1809 ppb	0.33677	28.52%
Al 396.153Radial†	11937.9	10724 ug/L	253.7	10724 ppb	253.7	2.37%
As 188.979†	-1.2	9.3894 ug/L	0.19778	9.3894 ppb	0.19778	2.11%
B 249.677†	325.0	4.0316 ug/L	0.49663	4.0316 ppb	0.49663	12.32%
Ba 233.527†	19379.1	146.62 ug/L	9.270	146.62 ppb	9.270	6.32%
Be 313.107†	-1248.1	1.0782 ug/L	0.03224	1.0782 ppb	0.03224	2.99%
Ca 317.933Radial†	1211.3	2401.5 ug/L	54.52	2401.5 ppb	54.52	2.27%
Cd 226.502†	156.7	-0.1758 ug/L	0.08610	-0.1758 ppb	0.08610	48.99%
Co 228.616†	369.3	5.2903 ug/L	0.06843	5.2903 ppb	0.06843	1.29%
Cr 267.716†	1287.9	14.130 ug/L	0.8324	14.130 ppb	0.8324	5.89%
Cu 324.752†	2285.8	7.4931 ug/L	1.54129	7.4931 ppb	1.54129	20.57%
Fe 238.204 Radial†	1475.6	17575 ug/L	387.9	17575 ppb	387.9	2.21%
K 766.490 Radial†	10466.8	1823.8 ug/L	48.83	1823.8 ppb	48.83	2.68%

Mg 279.077 IEC†	40.6	1747.7 ug/L	61.49	1747.7 ppb	61.49	3.52%
Mn 257.610†	418487.6	430.10 ug/L	18.629	430.10 ppb	18.629	4.33%
Mo 202.031†	5.6	1.7750 ug/L	0.27617	1.7750 ppb	0.27617	15.56%
Na 589.592 Radial†	373.2	107.00 ug/L	5.266	107.00 ppb	5.266	4.92%
Ni 231.604†	413.1	9.3828 ug/L	0.38974	9.3828 ppb	0.38974	4.15%
P 214.914†	261.6	120.17 ug/L	9.251	120.17 ppb	9.251	7.70%
Pb 220.353†	160.8	18.250 ug/L	1.0927	18.250 ppb	1.0927	5.99%
S 181.975 Axial†	60.0	70.629 ug/L	1.9974	70.629 ppb	1.9974	2.83%
Sb 206.836†	15.3	2.0685 ug/L	1.67010	2.0685 ppb	1.67010	80.74%
Se 196.026†	-88.7	6.0113 ug/L	3.00340	6.0113 ppb	3.00340	49.96%
Si 251.611†	118055.5	3512.5 ug/L	230.76	3512.5 ppb	230.76	6.57%
Sn 189.927†	-30.6	-4.3088 ug/L	1.01591	-4.3088 ppb	1.01591	23.58%
Sr 421.552†	3350.1	22.614 ug/L	0.3022	22.614 ppb	0.3022	1.34%
Ti 334.940†	431414.2	662.55 ug/L	28.791	662.55 ppb	28.791	4.35%
Tl 190.801†	-19.6	1.8511 ug/L	1.97263	1.8511 ppb	1.97263	106.57%
U 409.014†	-108.0	-5.5406 ug/L	2.55858	-5.5406 ppb	2.55858	46.18%
V 292.402†	4704.5	29.423 ug/L	1.2834	29.423 ppb	1.2834	4.36%
Zn 213.857†	4814.3	39.408 ug/L	3.0452	39.408 ppb	3.0452	7.73%
SiO2†	122807.9	7838.1 ug/L	307.39	7838.1 ppb	307.39	3.92%

Sequence No.: 54

Sample ID: 245136002|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 63

Date Collected: 2/3/2010 22:04:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245136002|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3777.1	3777.1	95.4 %		22:06:27
1	Y RADIAL	4480.7	4480.7	98.73 %		22:06:07
1	Al 396.153Radial†	35475.3	37388.5	33588 ug/L	33588 ppb	22:06:07
1	Ca 317.933Radial†	3502.7	3656.0	7248.5 ug/L	7248.5 ppb	22:06:27
1	Fe 238.204 Radial†	5513.4	5768.5	68705 ug/L	68705 ppb	22:06:07
1	K 766.490 Radial†	36416.3	35148.5	6124.7 ug/L	6124.7 ppb	22:06:07
1	Mg 279.077 IEC†	165.2	169.9	7322.4 ug/L	7322.4 ppb	22:06:27
1	Na 589.592 Radial†	202.2	1797.1	515.30 ug/L	515.30 ppb	22:06:07
1	Sr 421.552†	9319.9	9770.6	65.951 ug/L	65.951 ppb	22:06:07
1	Sc 361.383	860131.8	860131.8	99.465 %		22:07:25
1	Y 371.029	712755.8	712755.8	104.50 %		22:07:25
1	Ag 328.068†	-3469.1	-3922.9	5.8237 ug/L	5.8237 ppb	22:07:30
1	As 188.979†	-63.4	-28.3	28.167 ug/L	28.167 ppb	22:07:50
1	B 249.677†	89.7	697.0	3.5724 ug/L	3.5724 ppb	22:07:30
1	Ba 233.527†	56952.1	57276.6	433.89 ug/L	433.89 ppb	22:07:30
1	Be 313.107†	-10923.0	-7037.8	3.5930 ug/L	3.5930 ppb	22:07:30
1	Cd 226.502†	425.2	627.1	-0.5519 ug/L	-0.5519 ppb	22:07:50
1	Co 228.616†	1402.0	1495.9	21.477 ug/L	21.477 ppb	22:07:50
1	Cr 267.716†	3601.9	3532.3	39.217 ug/L	39.217 ppb	22:07:50
1	Cu 324.752†	16822.1	10064.4	32.577 ug/L	32.577 ppb	22:07:30
1	Mn 257.610†	1772885.1	1781935.0	1830.8 ug/L	1830.8 ppb	22:07:25
1	Mo 202.031†	-24.0	-27.0	3.5811 ug/L	3.5811 ppb	22:07:50
1	Ni 231.604†	1541.3	1466.4	33.301 ug/L	33.301 ppb	22:07:50
1	P 214.914†	1872.0	1647.6	784.79 ug/L	784.79 ppb	22:07:50
1	Pb 220.353†	633.2	707.8	78.153 ug/L	78.153 ppb	22:07:50
1	S 181.975 Axial†	241.5	190.9	224.66 ug/L	224.66 ppb	22:07:50
1	Sb 206.836†	79.9	44.8	3.5678 ug/L	3.5678 ppb	22:07:50
1	Se 196.026†	-389.7	-362.3	15.235 ug/L	15.235 ppb	22:07:50
1	Si 251.611†	516530.4	518821.1	15437 ug/L	15437 ppb	22:07:25
1	Sn 189.927†	-38.6	-56.4	-6.9000 ug/L	-6.9000 ppb	22:07:50
1	Ti 334.940†	1708332.4	1719221.8	2640.0 ug/L	2640.0 ppb	22:07:25
1	Tl 190.801†	-156.1	-113.7	-2.2127 ug/L	-2.2127 ppb	22:07:50
1	U 409.014†	-7235.2	-2949.4	-103.63 ug/L	-103.63 ppb	22:07:30
1	V 292.402†	14483.3	16269.0	100.05 ug/L	100.05 ppb	22:07:30
1	Zn 213.857†	24497.2	23883.9	197.39 ug/L	197.39 ppb	22:07:30
1	SiO2†	510310.3	512524.6	32712 ug/L	32712 ppb	22:08:58
2	Sc Radial	3700.8	3700.8	93.5 %		22:06:52
2	Y RADIAL	4501.6	4501.6	99.19 %		22:06:32
2	Al 396.153Radial†	35270.2	37936.5	34081 ug/L	34081 ppb	22:06:32
2	Ca 317.933Radial†	3545.5	3777.5	7489.5 ug/L	7489.5 ppb	22:06:52
2	Fe 238.204 Radial†	5498.7	5872.0	69937 ug/L	69937 ppb	22:06:32
2	K 766.490 Radial†	36087.9	35584.9	6200.7 ug/L	6200.7 ppb	22:06:32
2	Mg 279.077 IEC†	159.3	167.1	7199.5 ug/L	7199.5 ppb	22:06:52
2	Na 589.592 Radial†	158.9	1755.1	503.26 ug/L	503.26 ppb	22:06:32
2	Sr 421.552†	9244.1	9891.2	66.764 ug/L	66.764 ppb	22:06:32
2	Sc 361.383	857808.5	857808.5	99.196 %		22:07:56
2	Y 371.029	711458.1	711458.1	104.31 %		22:07:56
2	Ag 328.068†	-3594.0	-4058.3	5.6208 ug/L	5.6208 ppb	22:08:01
2	As 188.979†	-56.9	-21.9	31.147 ug/L	31.147 ppb	22:08:21
2	B 249.677†	99.4	707.0	3.5850 ug/L	3.5850 ppb	22:08:01
2	Ba 233.527†	57141.1	57622.3	436.53 ug/L	436.53 ppb	22:08:01
2	Be 313.107†	-10996.7	-7141.8	3.6193 ug/L	3.6193 ppb	22:08:01
2	Cd 226.502†	413.4	616.4	-0.7914 ug/L	-0.7914 ppb	22:08:21
2	Co 228.616†	1387.2	1484.8	21.197 ug/L	21.197 ppb	22:08:21
2	Cr 267.716†	3615.4	3555.7	39.490 ug/L	39.490 ppb	22:08:21
2	Cu 324.752†	16837.6	10125.8	32.818 ug/L	32.818 ppb	22:08:01
2	Mn 257.610†	1784629.5	1798602.0	1848.0 ug/L	1848.0 ppb	22:07:56
2	Mo 202.031†	-19.7	-22.7	3.9712 ug/L	3.9712 ppb	22:08:21
2	Ni 231.604†	1538.7	1468.0	33.339 ug/L	33.339 ppb	22:08:21

2	P 214.914†	1853.7	1634.3	777.16 ug/L	777.16 ppb	22:08:21
2	Pb 220.353†	651.6	728.1	80.371 ug/L	80.371 ppb	22:08:21
2	S 181.975 Axial†	238.8	188.8	222.03 ug/L	222.03 ppb	22:08:21
2	Sb 206.836†	67.0	32.0	-0.4604 ug/L	-0.4604 ppb	22:08:21
2	Se 196.026†	-376.4	-349.9	25.748 ug/L	25.748 ppb	22:08:21
2	Si 251.611†	519621.6	523343.8	15571 ug/L	15571 ppb	22:07:56
2	Sn 189.927†	-27.3	-45.2	-5.0245 ug/L	-5.0245 ppb	22:08:21
2	Ti 334.940†	1721314.2	1736960.6	2667.3 ug/L	2667.3 ppb	22:07:56
2	Tl 190.801†	-148.1	-106.1	0.2711 ug/L	0.2711 ppb	22:08:21
2	U 409.014†	-7206.7	-2940.3	-103.48 ug/L	-103.48 ppb	22:08:01
2	V 292.402†	14406.9	16231.5	99.584 ug/L	99.584 ppb	22:08:01
2	Zn 213.857†	24552.1	24006.1	198.31 ug/L	198.31 ppb	22:08:01
2	SiO2†	505067.7	508629.0	32463 ug/L	32463 ppb	22:09:04
3	Sc Radial	3692.0	3692.0	93.2 %		22:07:18
3	Y RADIAL	4513.5	4513.5	99.45 %		22:06:58
3	Al 396.153Radial†	35552.9	38329.5	34434 ug/L	34434 ppb	22:06:58
3	Ca 317.933Radial†	3570.2	3813.1	7560.1 ug/L	7560.1 ppb	22:07:18
3	Fe 238.204 Radial†	5506.7	5894.7	70208 ug/L	70208 ppb	22:06:58
3	K 766.490 Radial†	36296.2	35900.4	6255.6 ug/L	6255.6 ppb	22:06:58
3	Mg 279.077 IEC†	165.3	174.0	7498.2 ug/L	7498.2 ppb	22:07:18
3	Na 589.592 Radial†	142.4	1737.9	498.31 ug/L	498.31 ppb	22:06:58
3	Sr 421.552†	9363.5	10042.8	67.787 ug/L	67.787 ppb	22:06:58
3	Sc 361.383	859276.4	859276.4	99.366 %		22:08:27
3	Y 371.029	713627.7	713627.7	104.62 %		22:08:27
3	Ag 328.068†	-3646.3	-4104.7	5.5038 ug/L	5.5038 ppb	22:08:32
3	As 188.979†	-68.5	-33.4	26.695 ug/L	26.695 ppb	22:08:52
3	B 249.677†	0.4	607.2	1.4212 ug/L	1.4212 ppb	22:08:32
3	Ba 233.527†	57081.7	57464.1	435.35 ug/L	435.35 ppb	22:08:32
3	Be 313.107†	-11013.4	-7139.6	3.5937 ug/L	3.5937 ppb	22:08:32
3	Cd 226.502†	420.2	622.5	-0.7556 ug/L	-0.7556 ppb	22:08:52
3	Co 228.616†	1398.1	1493.5	21.379 ug/L	21.379 ppb	22:08:52
3	Cr 267.716†	3616.5	3550.5	39.442 ug/L	39.442 ppb	22:08:52
3	Cu 324.752†	17013.7	10274.0	33.258 ug/L	33.258 ppb	22:08:32
3	Mn 257.610†	1778618.4	1789479.2	1838.7 ug/L	1838.7 ppb	22:08:27
3	Mo 202.031†	-15.4	-18.4	4.2897 ug/L	4.2897 ppb	22:08:52
3	Ni 231.604†	1529.8	1456.4	33.074 ug/L	33.074 ppb	22:08:52
3	P 214.914†	1843.2	1620.5	769.93 ug/L	769.93 ppb	22:08:52
3	Pb 220.353†	628.8	704.0	77.791 ug/L	77.791 ppb	22:08:52
3	S 181.975 Axial†	231.6	181.1	212.74 ug/L	212.74 ppb	22:08:52
3	Sb 206.836†	65.3	30.1	-0.9967 ug/L	-0.9967 ppb	22:08:52
3	Se 196.026†	-390.2	-363.2	19.399 ug/L	19.399 ppb	22:08:52
3	Si 251.611†	517693.1	520508.0	15487 ug/L	15487 ppb	22:08:27
3	Sn 189.927†	-27.4	-45.2	-5.0082 ug/L	-5.0082 ppb	22:08:52
3	Ti 334.940†	1716727.9	1729380.7	2655.6 ug/L	2655.6 ppb	22:08:27
3	Tl 190.801†	-137.1	-94.8	3.3679 ug/L	3.3679 ppb	22:08:52
3	U 409.014†	-7203.2	-2924.4	-103.00 ug/L	-103.00 ppb	22:08:32
3	V 292.402†	14579.4	16380.3	100.60 ug/L	100.60 ppb	22:08:32
3	Zn 213.857†	24597.7	24009.6	198.32 ug/L	198.32 ppb	22:08:32
3	SiO2†	518078.7	520853.2	33243 ug/L	33243 ppb	22:09:09

Mean Data: 245136002|944111|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	859072.2	99.342 %		0.1359			0.14%
Sc Radial	3723.3	94.0 %		1.18			1.26%
Y 371.029	712613.8	104.47 %		0.160			0.15%
Y RADIAL	4498.6	99.12 %		0.366			0.37%
Ag 328.068†	-4028.6	5.6494 ug/L		0.16182	5.6494 ppb	0.16182	2.86%
Al 396.153Radial†	37884.8	34034 ug/L		424.6	34034 ppb	424.6	1.25%
As 188.979†	-27.9	28.669 ug/L		2.2683	28.669 ppb	2.2683	7.91%
B 249.677†	670.4	2.8595 ug/L		1.24562	2.8595 ppb	1.24562	43.56%
Ba 233.527†	57454.3	435.26 ug/L		1.323	435.26 ppb	1.323	0.30%
Be 313.107†	-7106.4	3.6020 ug/L		0.01503	3.6020 ppb	0.01503	0.42%
Ca 317.933Radial†	3748.9	7432.7 ug/L		163.39	7432.7 ppb	163.39	2.20%
Cd 226.502†	622.0	-0.6996 ug/L		0.12917	-0.6996 ppb	0.12917	18.46%
Co 228.616†	1491.4	21.351 ug/L		0.1421	21.351 ppb	0.1421	0.67%
Cr 267.716†	3546.2	39.383 ug/L		0.1459	39.383 ppb	0.1459	0.37%
Cu 324.752†	10154.7	32.884 ug/L		0.3451	32.884 ppb	0.3451	1.05%
Fe 238.204 Radial†	5845.1	69617 ug/L		801.2	69617 ppb	801.2	1.15%
K 766.490 Radial†	35544.6	6193.7 ug/L		65.77	6193.7 ppb	65.77	1.06%

Mg 279.077 IEC†	170.3	7340.0 ug/L	150.12	7340.0 ppb	150.12	2.05%
Mn 257.610†	1790005.4	1839.1 ug/L	8.61	1839.1 ppb	8.61	0.47%
Mo 202.031†	-22.7	3.9473 ug/L	0.35488	3.9473 ppb	0.35488	8.99%
Na 589.592 Radial†	1763.4	505.62 ug/L	8.742	505.62 ppb	8.742	1.73%
Ni 231.604†	1463.6	33.238 ug/L	0.1433	33.238 ppb	0.1433	0.43%
P 214.914†	1634.1	777.30 ug/L	7.435	777.30 ppb	7.435	0.96%
Pb 220.353†	713.3	78.772 ug/L	1.3968	78.772 ppb	1.3968	1.77%
S 181.975 Axial†	186.9	219.81 ug/L	6.266	219.81 ppb	6.266	2.85%
Sb 206.836†	35.6	0.7036 ug/L	2.49493	0.7036 ppb	2.49493	354.60%
Se 196.026†	-358.5	20.127 ug/L	5.2946	20.127 ppb	5.2946	26.31%
Si 251.611†	520891.0	15498 ug/L	68.0	15498 ppb	68.0	0.44%
Sn 189.927†	-48.9	-5.6442 ug/L	1.08755	-5.6442 ppb	1.08755	19.27%
Sr 421.552†	9901.5	66.834 ug/L	0.9201	66.834 ppb	0.9201	1.38%
Ti 334.940†	1728521.0	2654.3 ug/L	13.69	2654.3 ppb	13.69	0.52%
Tl 190.801†	-104.9	0.4754 ug/L	2.79590	0.4754 ppb	2.79590	588.06%
U 409.014†	-2938.0	-103.37 ug/L	0.333	-103.37 ppb	0.333	0.32%
V 292.402†	16293.6	100.08 ug/L	0.509	100.08 ppb	0.509	0.51%
Zn 213.857†	23966.5	198.01 ug/L	0.535	198.01 ppb	0.535	0.27%
SiO2†	514002.3	32806 ug/L	398.6	32806 ppb	398.6	1.21%

Sequence No.: 55

Sample ID: 245136003|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 64

Date Collected: 2/3/2010 22:11:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245136003|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3963.2	3963.2	100 %		22:13:33
1	Y RADIAL	4953.0	4953.0	109.1 %		22:13:33
1	Al 396.153Radial†	81348.5	81479.1	73197 ug/L	73197 ppb	22:13:13
1	Ca 317.933Radial†	9133.4	9109.8	18061 ug/L	18061 ppb	22:13:13
1	Fe 238.204 Radial†	8825.7	8806.8	104890 ug/L	104890 ppb	22:13:13
1	K 766.490 Radial†	65326.6	62243.5	10845 ug/L	10845 ppb	22:13:13
1	Mg 279.077 IEC†	321.9	318.3	13743 ug/L	13743 ppb	22:13:33
1	Na 589.592 Radial†	451.7	2036.4	583.91 ug/L	583.91 ppb	22:13:13
1	Sr 421.552†	22391.2	22372.8	151.00 ug/L	151.00 ppb	22:13:13
1	Sc 361.383	881695.3	881695.3	101.96 %		22:14:31
1	Y 371.029	795726.7	795726.7	116.66 %		22:14:31
1	Ag 328.068†	-6717.7	-7023.8	4.0303 ug/L	4.0303 ppb	22:14:36
1	As 188.979†	-44.8	-8.5	44.859 ug/L	44.859 ppb	22:14:56
1	B 249.677†	632.8	1227.5	8.9797 ug/L	8.9797 ppb	22:14:36
1	Ba 233.527†	66118.4	64866.5	492.22 ug/L	492.22 ppb	22:14:36
1	Be 313.107†	6058.6	9886.3	9.5328 ug/L	9.5328 ppb	22:14:36
1	Cd 226.502†	721.3	907.1	-1.3837 ug/L	-1.3837 ppb	22:14:56
1	Co 228.616†	1214.0	1277.1	16.744 ug/L	16.744 ppb	22:14:56
1	Cr 267.716†	6462.9	6249.7	69.003 ug/L	69.003 ppb	22:14:36
1	Cu 324.752†	24535.5	17216.0	55.106 ug/L	55.106 ppb	22:14:36
1	Mn 257.610†	1592200.8	1561128.2	1608.0 ug/L	1608.0 ppb	22:14:31
1	Mo 202.031†	-28.0	-30.3	6.2939 ug/L	6.2939 ppb	22:14:56
1	Ni 231.604†	2752.2	2616.1	59.427 ug/L	59.427 ppb	22:14:56
1	P 214.914†	1635.4	1369.5	620.07 ug/L	620.07 ppb	22:14:56
1	Pb 220.353†	485.2	547.0	65.764 ug/L	65.764 ppb	22:14:56
1	S 181.975 Axial†	305.5	247.7	285.98 ug/L	285.98 ppb	22:14:56
1	Sb 206.836†	83.9	46.8	2.4872 ug/L	2.4872 ppb	22:14:56
1	Se 196.026†	-593.2	-552.3	23.403 ug/L	23.403 ppb	22:14:56
1	Si 251.611†	808429.5	792413.0	23577 ug/L	23577 ppb	22:14:31
1	Sn 189.927†	-57.6	-74.1	-7.5292 ug/L	-7.5292 ppb	22:14:56
1	Ti 334.940†	1800689.3	1767799.4	2715.6 ug/L	2715.6 ppb	22:14:31
1	Tl 190.801†	-162.2	-115.8	-3.2946 ug/L	-3.2946 ppb	22:14:56
1	U 409.014†	-12344.8	-7782.9	-264.69 ug/L	-264.69 ppb	22:14:31
1	V 292.402†	17902.3	19266.3	115.32 ug/L	115.32 ppb	22:14:36
1	Zn 213.857†	45052.8	43442.4	360.99 ug/L	360.99 ppb	22:14:36
1	SiO2†	803595.1	787628.7	50270 ug/L	50270 ppb	22:16:05
2	Sc Radial	3952.5	3952.5	99.8 %		22:13:58
2	Y RADIAL	4961.9	4961.9	109.3 %		22:13:58
2	Al 396.153Radial†	81977.5	82328.1	73960 ug/L	73960 ppb	22:13:38
2	Ca 317.933Radial†	9193.3	9194.4	18229 ug/L	18229 ppb	22:13:38
2	Fe 238.204 Radial†	8872.7	8877.7	105740 ug/L	105740 ppb	22:13:38
2	K 766.490 Radial†	65982.2	63076.1	10990 ug/L	10990 ppb	22:13:38
2	Mg 279.077 IEC†	321.7	319.0	13772 ug/L	13772 ppb	22:13:58
2	Na 589.592 Radial†	451.1	2037.1	584.10 ug/L	584.10 ppb	22:13:38
2	Sr 421.552†	22610.6	22652.9	152.90 ug/L	152.90 ppb	22:13:38
2	Sc 361.383	878728.4	878728.4	101.62 %		22:15:02
2	Y 371.029	795788.2	795788.2	116.67 %		22:15:02
2	Ag 328.068†	-6844.9	-7171.2	3.6531 ug/L	3.6531 ppb	22:15:07
2	As 188.979†	-45.5	-9.3	44.739 ug/L	44.739 ppb	22:15:27
2	B 249.677†	570.5	1168.3	7.5833 ug/L	7.5833 ppb	22:15:07
2	Ba 233.527†	67066.6	66018.6	500.94 ug/L	500.94 ppb	22:15:07
2	Be 313.107†	6113.4	9960.3	9.5580 ug/L	9.5580 ppb	22:15:07
2	Cd 226.502†	723.2	911.4	-1.4261 ug/L	-1.4261 ppb	22:15:27
2	Co 228.616†	1218.7	1285.7	16.895 ug/L	16.895 ppb	22:15:27
2	Cr 267.716†	6604.5	6410.4	70.738 ug/L	70.738 ppb	22:15:07
2	Cu 324.752†	24927.5	17683.0	56.492 ug/L	56.492 ppb	22:15:07
2	Mn 257.610†	1585443.3	1559750.7	1606.7 ug/L	1606.7 ppb	22:15:02
2	Mo 202.031†	-30.1	-32.5	6.2135 ug/L	6.2135 ppb	22:15:27
2	Ni 231.604†	2757.4	2630.4	59.751 ug/L	59.751 ppb	22:15:27

2	P 214.914†	1637.2	1376.7	622.94 ug/L	622.94 ppb	22:15:27
2	Pb 220.353†	488.7	552.2	66.410 ug/L	66.410 ppb	22:15:27
2	S 181.975 Axial†	308.2	251.4	290.31 ug/L	290.31 ppb	22:15:27
2	Sb 206.836†	76.0	39.2	0.1209 ug/L	0.1209 ppb	22:15:27
2	Se 196.026†	-614.8	-575.6	13.403 ug/L	13.403 ppb	22:15:27
2	Si 251.611†	804119.0	790848.2	23530 ug/L	23530 ppb	22:15:02
2	Sn 189.927†	-62.4	-79.1	-8.2911 ug/L	-8.2911 ppb	22:15:27
2	Ti 334.940†	1794611.6	1767781.4	2715.6 ug/L	2715.6 ppb	22:15:02
2	Tl 190.801†	-152.0	-106.4	-0.6141 ug/L	-0.6141 ppb	22:15:27
2	U 409.014†	-12341.0	-7820.1	-265.99 ug/L	-265.99 ppb	22:15:02
2	V 292.402†	18145.2	19564.6	117.26 ug/L	117.26 ppb	22:15:07
2	Zn 213.857†	45647.6	44176.9	367.19 ug/L	367.19 ppb	22:15:07
2	SiO2†	801776.1	788499.7	50326 ug/L	50326 ppb	22:16:10
3	Sc Radial	3984.4	3984.4	101 %		22:14:23
3	Y RADIAL	4986.9	4986.9	109.9 %		22:14:23
3	Al 396.153Radial†	82187.3	81879.7	73557 ug/L	73557 ppb	22:14:03
3	Ca 317.933Radial†	9246.6	9173.7	18188 ug/L	18188 ppb	22:14:03
3	Fe 238.204 Radial†	8923.6	8857.1	105490 ug/L	105490 ppb	22:14:03
3	K 766.490 Radial†	66133.0	62697.2	10924 ug/L	10924 ppb	22:14:03
3	Mg 279.077 IEC†	325.1	319.8	13807 ug/L	13807 ppb	22:14:23
3	Na 589.592 Radial†	482.4	2064.6	591.98 ug/L	591.98 ppb	22:14:03
3	Sr 421.552†	22605.8	22466.9	151.64 ug/L	151.64 ppb	22:14:03
3	Sc 361.383	885526.3	885526.3	102.40 %		22:15:33
3	Y 371.029	802317.1	802317.1	117.63 %		22:15:33
3	Ag 328.068†	-6825.6	-7100.7	3.8835 ug/L	3.8835 ppb	22:15:38
3	As 188.979†	-52.1	-15.5	42.349 ug/L	42.349 ppb	22:15:58
3	B 249.677†	567.0	1160.5	7.4591 ug/L	7.4591 ppb	22:15:38
3	Ba 233.527†	66715.5	65169.1	494.52 ug/L	494.52 ppb	22:15:38
3	Be 313.107†	6024.0	9826.9	9.5173 ug/L	9.5173 ppb	22:15:38
3	Cd 226.502†	732.3	914.7	-1.3661 ug/L	-1.3661 ppb	22:15:58
3	Co 228.616†	1219.8	1277.6	16.740 ug/L	16.740 ppb	22:15:58
3	Cr 267.716†	6578.6	6335.3	69.928 ug/L	69.928 ppb	22:15:38
3	Cu 324.752†	24769.7	17340.5	55.496 ug/L	55.496 ppb	22:15:38
3	Mn 257.610†	1598120.8	1560153.5	1607.1 ug/L	1607.1 ppb	22:15:33
3	Mo 202.031†	-32.3	-34.4	6.0643 ug/L	6.0643 ppb	22:15:58
3	Ni 231.604†	2755.5	2607.7	59.236 ug/L	59.236 ppb	22:15:58
3	P 214.914†	1633.6	1360.8	615.17 ug/L	615.17 ppb	22:15:58
3	Pb 220.353†	481.7	541.6	65.191 ug/L	65.191 ppb	22:15:58
3	S 181.975 Axial†	306.7	247.6	285.78 ug/L	285.78 ppb	22:15:58
3	Sb 206.836†	59.6	22.7	-4.9550 ug/L	-4.9550 ppb	22:15:58
3	Se 196.026†	-605.6	-561.9	20.069 ug/L	20.069 ppb	22:15:58
3	Si 251.611†	811706.4	792182.9	23570 ug/L	23570 ppb	22:15:33
3	Sn 189.927†	-58.7	-75.0	-7.6371 ug/L	-7.6371 ppb	22:15:58
3	Ti 334.940†	1809914.3	1769167.6	2717.7 ug/L	2717.7 ppb	22:15:33
3	Tl 190.801†	-154.5	-107.7	-0.9561 ug/L	-0.9561 ppb	22:15:58
3	U 409.014†	-12446.8	-7830.1	-266.29 ug/L	-266.29 ppb	22:15:33
3	V 292.402†	17998.9	19284.7	115.35 ug/L	115.35 ppb	22:15:38
3	Zn 213.857†	45581.2	43767.3	363.71 ug/L	363.71 ppb	22:15:38
3	SiO2†	810515.6	790977.1	50484 ug/L	50484 ppb	22:16:16

Mean Data: 245136003|944111|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Sc 361.383	881983.4	101.99 %		0.394			0.39%
Sc Radial	3966.7	100 %		0.4			0.41%
Y 371.029	797944.0	116.98 %		0.555			0.47%
Y RADIAL	4967.3	109.4 %		0.39			0.35%
Ag 328.068†	-7098.5	3.8556 ug/L		0.19014	3.8556 ppb	0.19014	4.93%
Al 396.153Radial†	81895.6	73571 ug/L		381.6	73571 ppb	381.6	0.52%
As 188.979†	-11.1	43.982 ug/L		1.4156	43.982 ppb	1.4156	3.22%
B 249.677†	1185.4	8.0073 ug/L		0.84433	8.0073 ppb	0.84433	10.54%
Ba 233.527†	65351.4	495.89 ug/L		4.515	495.89 ppb	4.515	0.91%
Be 313.107†	9891.2	9.5361 ug/L		0.02052	9.5361 ppb	0.02052	0.22%
Ca 317.933Radial†	9159.3	18160 ug/L		87.5	18160 ppb	87.5	0.48%
Cd 226.502†	911.1	-1.3920 ug/L		0.03081	-1.3920 ppb	0.03081	2.21%
Co 228.616†	1280.1	16.793 ug/L		0.0885	16.793 ppb	0.0885	0.53%
Cr 267.716†	6331.8	69.890 ug/L		0.8680	69.890 ppb	0.8680	1.24%
Cu 324.752†	17413.2	55.698 ug/L		0.7146	55.698 ppb	0.7146	1.28%
Fe 238.204 Radial†	8847.2	105370 ug/L		434.2	105370 ppb	434.2	0.41%
K 766.490 Radial†	62672.3	10920 ug/L		72.7	10920 ppb	72.7	0.67%

Mg 279.077 IEC†	319.0	13774 ug/L	32.1	13774 ppb	32.1	0.23%
Mn 257.610†	1560344.1	1607.3 ug/L	0.68	1607.3 ppb	0.68	0.04%
Mo 202.031†	-32.4	6.1906 ug/L	0.11648	6.1906 ppb	0.11648	1.88%
Na 589.592 Radial†	2046.0	586.66 ug/L	4.607	586.66 ppb	4.607	0.79%
Ni 231.604†	2618.0	59.471 ug/L	0.2607	59.471 ppb	0.2607	0.44%
P 214.914†	1369.0	619.39 ug/L	3.931	619.39 ppb	3.931	0.63%
Pb 220.353†	546.9	65.788 ug/L	0.6096	65.788 ppb	0.6096	0.93%
S 181.975 Axial†	248.9	287.36 ug/L	2.562	287.36 ppb	2.562	0.89%
Sb 206.836†	36.2	-0.7823 ug/L	3.80239	-0.7823 ppb	3.80239	486.05%
Se 196.026†	-563.2	18.958 ug/L	5.0915	18.958 ppb	5.0915	26.86%
Si 251.611†	791814.7	23559 ug/L	25.1	23559 ppb	25.1	0.11%
Sn 189.927†	-76.1	-7.8191 ug/L	0.41226	-7.8191 ppb	0.41226	5.27%
Sr 421.552†	22497.5	151.85 ug/L	0.962	151.85 ppb	0.962	0.63%
Ti 334.940†	1768249.4	2716.3 ug/L	1.22	2716.3 ppb	1.22	0.04%
Tl 190.801†	-110.0	-1.6216 ug/L	1.45891	-1.6216 ppb	1.45891	89.97%
U 409.014†	-7811.1	-265.66 ug/L	0.853	-265.66 ppb	0.853	0.32%
V 292.402†	19371.9	115.98 ug/L	1.113	115.98 ppb	1.113	0.96%
Zn 213.857†	43795.6	363.96 ug/L	3.106	363.96 ppb	3.106	0.85%
SiO2†	789035.1	50360 ug/L	110.9	50360 ppb	110.9	0.22%

Sequence No.: 56
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 2/3/2010 22:18:27
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	3566.4	3566.4	90.1 %			22:20:39
1	Y RADIAL	4161.3	4161.3	91.69 %			22:20:19
1	Al 396.153Radial†	5103.7	5862.7	5242.9 ug/L		5242.9 ppb	22:20:19
1	Ca 317.933Radial†	2476.2	2733.2	5418.9 ug/L		5418.9 ppb	22:20:39
1	Fe 238.204 Radial†	419.0	453.4	5414.2 ug/L		5414.2 ppb	22:20:39
1	K 766.490 Radial†	29530.4	29758.4	5181.9 ug/L		5181.9 ppb	22:20:19
1	Mg 279.077 IEC†	119.9	129.8	5649.6 ug/L		5649.6 ppb	22:20:39
1	Na 589.592 Radial†	29130.4	33930.1	9728.9 ug/L		9728.9 ppb	22:20:19
1	Sr 421.552†	66163.6	73464.3	496.25 ug/L		496.25 ppb	22:20:19
1	Sc 361.383	846042.2	846042.2	97.835 %			22:21:38
1	Y 371.029	659505.6	659505.6	96.689 %			22:21:38
1	Ag 328.068†	105667.4	107570.2	491.59 ug/L		491.59 ppb	22:21:38
1	As 188.979†	1215.5	1277.8	491.72 ug/L		491.72 ppb	22:21:58
1	B 249.677†	21342.8	22421.9	474.16 ug/L		474.16 ppb	22:21:38
1	Ba 233.527†	63244.4	64661.7	488.43 ug/L		488.43 ppb	22:21:38
1	Be 313.107†	1404751.6	1439776.5	492.04 ug/L		492.04 ppb	22:21:38
1	Cd 226.502†	44347.9	45528.7	474.78 ug/L		474.78 ppb	22:21:58
1	Co 228.616†	25159.8	25802.9	479.78 ug/L		479.78 ppb	22:21:58
1	Cr 267.716†	45022.7	45929.8	490.61 ug/L		490.61 ppb	22:21:38
1	Cu 324.752†	172300.3	169264.2	485.86 ug/L		485.86 ppb	22:21:38
1	Mn 257.610†	465435.6	475241.1	486.84 ug/L		486.84 ppb	22:21:38
1	Mo 202.031†	7069.7	7223.3	492.62 ug/L		492.62 ppb	22:21:58
1	Ni 231.604†	20983.6	21364.7	485.15 ug/L		485.15 ppb	22:21:58
1	P 214.914†	4844.0	4716.7	2302.9 ug/L		2302.9 ppb	22:21:58
1	Pb 220.353†	4296.4	4462.6	489.86 ug/L		489.86 ppb	22:21:58
1	S 181.975 Axial†	821.3	787.6	952.00 ug/L		952.00 ppb	22:21:58
1	Sb 206.836†	1562.4	1561.4	498.24 ug/L		498.24 ppb	22:21:58
1	Se 196.026†	843.8	891.9	501.38 ug/L		501.38 ppb	22:21:58
1	Si 251.611†	81338.4	82648.5	2453.0 ug/L		2453.0 ppb	22:21:38
1	Sn 189.927†	2937.3	2984.6	485.52 ug/L		485.52 ppb	22:21:58
1	Ti 334.940†	314525.5	323179.1	496.08 ug/L		496.08 ppb	22:21:38
1	Tl 190.801†	1619.0	1698.1	488.68 ug/L		488.68 ppb	22:21:58
1	U 409.014†	9890.4	14434.0	466.72 ug/L		466.72 ppb	22:21:38
1	V 292.402†	67017.0	70207.6	493.82 ug/L		493.82 ppb	22:21:38
1	Zn 213.857†	56363.9	56865.9	482.16 ug/L		482.16 ppb	22:21:38
1	SiO2†	80364.1	81609.7	5195.3 ug/L		5195.3 ppb	22:22:58
2	Sc Radial	3725.6	3725.6	94.1 %			22:21:04
2	Y RADIAL	4173.9	4173.9	91.97 %			22:20:44
2	Al 396.153Radial†	5195.7	5718.5	5113.4 ug/L		5113.4 ppb	22:20:44
2	Ca 317.933Radial†	2483.1	2623.0	5200.5 ug/L		5200.5 ppb	22:21:04
2	Fe 238.204 Radial†	422.3	437.1	5220.3 ug/L		5220.3 ppb	22:21:04
2	K 766.490 Radial†	29864.3	28712.7	4999.7 ug/L		4999.7 ppb	22:20:44
2	Mg 279.077 IEC†	117.2	121.3	5277.6 ug/L		5277.6 ppb	22:21:04
2	Na 589.592 Radial†	29632.0	33081.6	9485.6 ug/L		9485.6 ppb	22:20:44
2	Sr 421.552†	67408.1	71649.1	483.99 ug/L		483.99 ppb	22:20:44
2	Sc 361.383	850643.3	850643.3	98.367 %			22:22:05
2	Y 371.029	662910.6	662910.6	97.188 %			22:22:05
2	Ag 328.068†	106450.5	107782.1	492.50 ug/L		492.50 ppb	22:22:05
2	As 188.979†	1216.9	1272.5	489.67 ug/L		489.67 ppb	22:22:25
2	B 249.677†	21557.5	22522.1	476.33 ug/L		476.33 ppb	22:22:05
2	Ba 233.527†	63522.0	64594.3	487.92 ug/L		487.92 ppb	22:22:05
2	Be 313.107†	1415135.3	1442566.2	492.99 ug/L		492.99 ppb	22:22:05
2	Cd 226.502†	44449.4	45386.7	473.31 ug/L		473.31 ppb	22:22:25
2	Co 228.616†	25187.3	25691.7	477.71 ug/L		477.71 ppb	22:22:25
2	Cr 267.716†	45312.4	45975.4	491.10 ug/L		491.10 ppb	22:22:05
2	Cu 324.752†	174112.6	170154.0	488.41 ug/L		488.41 ppb	22:22:05
2	Mn 257.610†	468106.8	475383.4	486.99 ug/L		486.99 ppb	22:22:05
2	Mo 202.031†	7094.1	7209.0	491.63 ug/L		491.63 ppb	22:22:25
2	Ni 231.604†	21014.4	21280.0	483.22 ug/L		483.22 ppb	22:22:25

2	P 214.914†	4852.4	4698.5	2293.2 ug/L	2293.2 ppb	22:22:25
2	Pb 220.353†	4316.2	4459.0	489.45 ug/L	489.45 ppb	22:22:25
2	S 181.975 Axial†	818.0	779.7	942.48 ug/L	942.48 ppb	22:22:25
2	Sb 206.836†	1561.9	1552.2	495.40 ug/L	495.40 ppb	22:22:25
2	Se 196.026†	851.4	895.0	502.44 ug/L	502.44 ppb	22:22:25
2	Si 251.611†	81816.7	82685.0	2454.1 ug/L	2454.1 ppb	22:22:05
2	Sn 189.927†	2953.1	2984.5	485.46 ug/L	485.46 ppb	22:22:25
2	Ti 334.940†	316501.2	323448.7	496.49 ug/L	496.49 ppb	22:22:05
2	Tl 190.801†	1632.7	1703.0	490.10 ug/L	490.10 ppb	22:22:25
2	U 409.014†	9729.4	14215.7	459.65 ug/L	459.65 ppb	22:22:05
2	V 292.402†	67363.4	70189.2	493.69 ug/L	493.69 ppb	22:22:05
2	Zn 213.857†	56717.2	56913.4	482.59 ug/L	482.59 ppb	22:22:05
2	SiO2†	82238.1	83070.6	5288.5 ug/L	5288.5 ppb	22:23:03
3	Sc Radial	3685.5	3685.5	93.1 %		22:21:29
3	Y RADIAL	4190.4	4190.4	92.33 %		22:21:09
3	Al 396.153Radial†	5207.5	5791.2	5178.7 ug/L	5178.7 ppb	22:21:09
3	Ca 317.933Radial†	2473.1	2641.0	5236.1 ug/L	5236.1 ppb	22:21:29
3	Fe 238.204 Radial†	417.8	437.1	5220.4 ug/L	5220.4 ppb	22:21:29
3	K 766.490 Radial†	30012.8	29217.5	5087.7 ug/L	5087.7 ppb	22:21:09
3	Mg 279.077 IEC†	113.4	118.5	5158.6 ug/L	5158.6 ppb	22:21:29
3	Na 589.592 Radial†	29467.0	33246.9	9533.0 ug/L	9533.0 ppb	22:21:09
3	Sr 421.552†	67513.3	72541.5	490.01 ug/L	490.01 ppb	22:21:09
3	Sc 361.383	846971.6	846971.6	97.943 %		22:22:32
3	Y 371.029	661266.2	661266.2	96.947 %		22:22:32
3	Ag 328.068†	105586.2	107368.8	490.62 ug/L	490.62 ppb	22:22:32
3	As 188.979†	1219.8	1280.9	492.84 ug/L	492.84 ppb	22:22:53
3	B 249.677†	21386.8	22442.8	474.63 ug/L	474.63 ppb	22:22:32
3	Ba 233.527†	63316.2	64664.1	488.44 ug/L	488.44 ppb	22:22:32
3	Be 313.107†	1405413.8	1438877.0	491.74 ug/L	491.74 ppb	22:22:32
3	Cd 226.502†	44520.6	45655.3	476.12 ug/L	476.12 ppb	22:22:53
3	Co 228.616†	25246.2	25862.9	480.90 ug/L	480.90 ppb	22:22:53
3	Cr 267.716†	45111.7	45970.1	491.04 ug/L	491.04 ppb	22:22:32
3	Cu 324.752†	172023.3	168788.2	484.49 ug/L	484.49 ppb	22:22:32
3	Mn 257.610†	465664.3	474952.6	486.55 ug/L	486.55 ppb	22:22:32
3	Mo 202.031†	7081.6	7227.5	492.89 ug/L	492.89 ppb	22:22:53
3	Ni 231.604†	21018.5	21376.8	485.42 ug/L	485.42 ppb	22:22:53
3	P 214.914†	4869.0	4736.8	2313.5 ug/L	2313.5 ppb	22:22:53
3	Pb 220.353†	4307.9	4469.6	490.63 ug/L	490.63 ppb	22:22:53
3	S 181.975 Axial†	831.5	797.0	963.45 ug/L	963.45 ppb	22:22:53
3	Sb 206.836†	1569.4	1566.8	499.90 ug/L	499.90 ppb	22:22:53
3	Se 196.026†	846.8	894.1	501.96 ug/L	501.96 ppb	22:22:53
3	Si 251.611†	81189.4	82405.2	2445.8 ug/L	2445.8 ppb	22:22:32
3	Sn 189.927†	2940.3	2984.4	485.45 ug/L	485.45 ppb	22:22:53
3	Ti 334.940†	314832.8	323140.1	496.03 ug/L	496.03 ppb	22:22:32
3	Tl 190.801†	1635.8	1713.3	493.04 ug/L	493.04 ppb	22:22:53
3	U 409.014†	9744.4	14273.9	461.54 ug/L	461.54 ppb	22:22:32
3	V 292.402†	67073.6	70190.2	493.71 ug/L	493.71 ppb	22:22:32
3	Zn 213.857†	56449.2	56889.8	482.38 ug/L	482.38 ppb	22:22:32
3	SiO2†	81519.6	82699.4	5264.8 ug/L	5264.8 ppb	22:23:08

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	847885.7	98.049 %		0.2813			0.29%
Sc Radial	3659.2	92.4 %		2.09			2.26%
Y 371.029	661227.5	96.941 %		0.2497			0.26%
Y RADIAL	4175.2	92.00 %		0.322			0.35%
Ag 328.068†	107573.7	491.57 ug/L		0.939	491.57 ppb	0.939	0.19%
QC value within limits for Ag 328.068 Recovery = 98.31%							
Al 396.153Radial†	5790.8	5178.3 ug/L		64.74	5178.3 ppb	64.74	1.25%
QC value within limits for Al 396.153Radial Recovery = 103.57%							
As 188.979†	1277.1	491.41 ug/L		1.610	491.41 ppb	1.610	0.33%
QC value within limits for As 188.979 Recovery = 98.28%							
B 249.677†	22462.3	475.04 ug/L		1.140	475.04 ppb	1.140	0.24%
QC value within limits for B 249.677 Recovery = 95.01%							
Ba 233.527†	64640.0	488.27 ug/L		0.300	488.27 ppb	0.300	0.06%
QC value within limits for Ba 233.527 Recovery = 97.65%							
Be 313.107†	1440406.6	492.26 ug/L		0.656	492.26 ppb	0.656	0.13%
QC value within limits for Be 313.107 Recovery = 98.45%							
Ca 317.933Radial†	2665.7	5285.2 ug/L		117.21	5285.2 ppb	117.21	2.22%

QC value within limits for Ca 317.933 Radial Recovery = 105.70%							
Cd	226.502†	45523.6	474.74 ug/L	1.402	474.74 ppb	1.402	0.30%
QC value within limits for Cd 226.502 Recovery = 94.95%							
Co	228.616†	25785.8	479.47 ug/L	1.617	479.47 ppb	1.617	0.34%
QC value within limits for Co 228.616 Recovery = 95.89%							
Cr	267.716†	45958.4	490.92 ug/L	0.266	490.92 ppb	0.266	0.05%
QC value within limits for Cr 267.716 Recovery = 98.18%							
Cu	324.752†	169402.1	486.25 ug/L	1.990	486.25 ppb	1.990	0.41%
QC value within limits for Cu 324.752 Recovery = 97.25%							
Fe	238.204 Radial†	442.5	5285.0 ug/L	111.91	5285.0 ppb	111.91	2.12%
QC value within limits for Fe 238.204 Radial Recovery = 105.70%							
K	766.490 Radial†	29229.5	5089.8 ug/L	91.09	5089.8 ppb	91.09	1.79%
QC value within limits for K 766.490 Radial Recovery = 101.80%							
Mg	279.077 IEC†	123.2	5361.9 ug/L	256.15	5361.9 ppb	256.15	4.78%
QC value within limits for Mg 279.077 IEC Recovery = 107.24%							
Mn	257.610†	475192.4	486.79 ug/L	0.222	486.79 ppb	0.222	0.05%
QC value within limits for Mn 257.610 Recovery = 97.36%							
Mo	202.031†	7219.9	492.38 ug/L	0.663	492.38 ppb	0.663	0.13%
QC value within limits for Mo 202.031 Recovery = 98.48%							
Na	589.592 Radial†	33419.5	9582.5 ug/L	128.98	9582.5 ppb	128.98	1.35%
QC value within limits for Na 589.592 Radial Recovery = 95.83%							
Ni	231.604†	21340.5	484.60 ug/L	1.198	484.60 ppb	1.198	0.25%
QC value within limits for Ni 231.604 Recovery = 96.92%							
P	214.914†	4717.3	2303.2 ug/L	10.14	2303.2 ppb	10.14	0.44%
QC value within limits for P 214.914 Recovery = 92.13%							
Pb	220.353†	4463.7	489.98 ug/L	0.598	489.98 ppb	0.598	0.12%
QC value within limits for Pb 220.353 Recovery = 98.00%							
S	181.975 Axial†	788.1	952.64 ug/L	10.501	952.64 ppb	10.501	1.10%
QC value within limits for S 181.975 Axial Recovery = 95.26%							
Sb	206.836†	1560.1	497.85 ug/L	2.275	497.85 ppb	2.275	0.46%
QC value within limits for Sb 206.836 Recovery = 99.57%							
Se	196.026†	893.7	501.93 ug/L	0.527	501.93 ppb	0.527	0.10%
QC value within limits for Se 196.026 Recovery = 100.39%							
Si	251.611†	82579.6	2451.0 ug/L	4.53	2451.0 ppb	4.53	0.18%
QC value within limits for Si 251.611 Recovery = 98.04%							
Sn	189.927†	2984.5	485.48 ug/L	0.034	485.48 ppb	0.034	0.01%
QC value within limits for Sn 189.927 Recovery = 97.10%							
Sr	421.552†	72551.6	490.08 ug/L	6.131	490.08 ppb	6.131	1.25%
QC value within limits for Sr 421.552 Recovery = 98.02%							
Ti	334.940†	323256.0	496.20 ug/L	0.254	496.20 ppb	0.254	0.05%
QC value within limits for Ti 334.940 Recovery = 99.24%							
Tl	190.801†	1704.8	490.61 ug/L	2.220	490.61 ppb	2.220	0.45%
QC value within limits for Tl 190.801 Recovery = 98.12%							
U	409.014†	14307.8	462.64 ug/L	3.658	462.64 ppb	3.658	0.79%
QC value within limits for U 409.014 Recovery = 92.53%							
V	292.402†	70195.7	493.74 ug/L	0.071	493.74 ppb	0.071	0.01%
QC value within limits for V 292.402 Recovery = 98.75%							
Zn	213.857†	56889.7	482.38 ug/L	0.217	482.38 ppb	0.217	0.05%
QC value within limits for Zn 213.857 Recovery = 96.48%							
SiO2†		82459.9	5249.6 ug/L	48.47	5249.6 ppb	48.47	0.92%
QC value within limits for SiO2 Recovery = 98.17%							

All analyte(s) passed QC.

Sequence No.: 57

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/3/2010 22:25:18

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	3777.3	3777.3	95.4 %		22:27:30
1	Y RADIAL	4152.2	4152.2	91.49 %		22:27:10
1	Al 396.153Radial†	-228.5	-43.7	-39.265 ug/L	-39.265 ppb	22:27:10
1	Ca 317.933Radial†	16.3	0.8	1.6264 ug/L	1.6264 ppb	22:27:30
1	Fe 238.204 Radial†	12.5	1.3	15.830 ug/L	15.830 ppb	22:27:30
1	K 766.490 Radial†	3111.0	230.8	40.245 ug/L	40.245 ppb	22:27:10
1	Mg 279.077 IEC†	3.9	0.8	33.029 ug/L	33.029 ppb	22:27:30
1	Na 589.592 Radial†	-1635.1	-129.1	-37.006 ug/L	-37.006 ppb	22:27:10
1	Sr 421.552†	46.4	48.2	0.3257 ug/L	0.3257 ppb	22:27:10
1	Sc 361.383	844549.8	844549.8	97.663 %		22:28:27
1	Y 371.029	667625.3	667625.3	97.879 %		22:28:27
1	Ag 328.068†	502.5	79.4	0.3675 ug/L	0.3675 ppb	22:28:27
1	As 188.979†	-24.4	10.4	3.9833 ug/L	3.9833 ppb	22:28:47
1	B 249.677†	-596.8	-4.2	-0.0919 ug/L	-0.0919 ppb	22:28:27
1	Ba 233.527†	-20.3	-2.8	-0.0215 ug/L	-0.0215 ppb	22:28:47
1	Be 313.107†	-3789.6	63.8	0.0216 ug/L	0.0216 ppb	22:28:27
1	Cd 226.502†	-220.5	-26.1	-0.2745 ug/L	-0.2745 ppb	22:28:47
1	Co 228.616†	-92.9	-8.7	-0.1620 ug/L	-0.1620 ppb	22:28:47
1	Cr 267.716†	82.1	-5.0	-0.0520 ug/L	-0.0520 ppb	22:28:27
1	Cu 324.752†	6779.7	93.7	0.2725 ug/L	0.2725 ppb	22:28:27
1	Mn 257.610†	559.4	80.3	0.0824 ug/L	0.0824 ppb	22:28:47
1	Mo 202.031†	2.8	0.0	0.0036 ug/L	0.0036 ppb	22:28:47
1	Ni 231.604†	114.4	33.9	0.7701 ug/L	0.7701 ppb	22:28:47
1	P 214.914†	226.2	-2.8	-1.5347 ug/L	-1.5347 ppb	22:28:47
1	Pb 220.353†	-78.4	-9.1	-1.0050 ug/L	-1.0050 ppb	22:28:47
1	S 181.975 Axial†	56.1	5.5	6.6371 ug/L	6.6371 ppb	22:28:47
1	Sb 206.836†	47.0	12.6	3.8411 ug/L	3.8411 ppb	22:28:47
1	Se 196.026†	-30.0	-1.2	-0.5802 ug/L	-0.5802 ppb	22:28:47
1	Si 251.611†	564.0	88.0	2.6181 ug/L	2.6181 ppb	22:28:47
1	Sn 189.927†	7.8	-9.7	-1.5710 ug/L	-1.5710 ppb	22:28:47
1	Ti 334.940†	-1700.1	-46.2	-0.0712 ug/L	-0.0712 ppb	22:28:27
1	Tl 190.801†	-34.0	8.4	2.3931 ug/L	2.3931 ppb	22:28:47
1	U 409.014†	-4377.5	-157.4	-5.1114 ug/L	-5.1114 ppb	22:28:27
1	V 292.402†	-1745.8	-79.7	-0.5649 ug/L	-0.5649 ppb	22:28:27
1	Zn 213.857†	720.9	-6.9	-0.0660 ug/L	-0.0660 ppb	22:28:47
1	SiO2†	580.0	61.4	3.9217 ug/L	3.9217 ppb	22:29:43
2	Sc Radial	3681.2	3681.2	93.0 %		22:27:55
2	Y RADIAL	4382.5	4382.5	96.57 %		22:27:35
2	Al 396.153Radial†	-176.0	6.5	5.8356 ug/L	5.8356 ppb	22:27:35
2	Ca 317.933Radial†	16.0	0.9	1.7682 ug/L	1.7682 ppb	22:27:55
2	Fe 238.204 Radial†	12.0	1.1	12.554 ug/L	12.554 ppb	22:27:55
2	K 766.490 Radial†	3066.2	267.7	46.686 ug/L	46.686 ppb	22:27:35
2	Mg 279.077 IEC†	1.0	-2.2	-95.233 ug/L	-95.233 ppb	22:27:55
2	Na 589.592 Radial†	-1591.4	-126.9	-36.376 ug/L	-36.376 ppb	22:27:35
2	Sr 421.552†	44.0	46.9	0.3168 ug/L	0.3168 ppb	22:27:35
2	Sc 361.383	812298.9	812298.9	93.933 %		22:28:52
2	Y 371.029	643122.1	643122.1	94.287 %		22:28:52
2	Ag 328.068†	396.7	-12.8	-0.0447 ug/L	-0.0447 ppb	22:28:52
2	As 188.979†	-26.3	7.4	2.8228 ug/L	2.8228 ppb	22:29:12
2	B 249.677†	-572.4	-2.5	-0.0558 ug/L	-0.0558 ppb	22:28:52
2	Ba 233.527†	2.8	21.0	0.1565 ug/L	0.1565 ppb	22:29:12
2	Be 313.107†	-3617.7	92.7	0.0305 ug/L	0.0305 ppb	22:28:52
2	Cd 226.502†	-215.6	-29.9	-0.3160 ug/L	-0.3160 ppb	22:29:12
2	Co 228.616†	-81.5	-0.4	-0.0063 ug/L	-0.0063 ppb	22:29:12
2	Cr 267.716†	106.8	24.6	0.2681 ug/L	0.2681 ppb	22:28:52
2	Cu 324.752†	6747.8	335.3	0.9719 ug/L	0.9719 ppb	22:28:52
2	Mn 257.610†	519.3	60.4	0.0669 ug/L	0.0669 ppb	22:29:12
2	Mo 202.031†	7.8	5.5	0.3742 ug/L	0.3742 ppb	22:29:12
2	Ni 231.604†	86.4	8.8	0.1996 ug/L	0.1996 ppb	22:29:12

2	P 214.914†	225.3	5.4	2.5343 ug/L	2.5343 ppb	22:29:12
2	Pb 220.353†	-66.4	0.5	0.0530 ug/L	0.0530 ppb	22:29:12
2	S 181.975 Axial†	41.5	-7.7	-9.3649 ug/L	-9.3649 ppb	22:29:12
2	Sb 206.836†	49.4	17.0	5.2013 ug/L	5.2013 ppb	22:29:12
2	Se 196.026†	-28.6	-0.9	-0.4695 ug/L	-0.4695 ppb	22:29:12
2	Si 251.611†	553.7	99.9	2.9678 ug/L	2.9678 ppb	22:29:12
2	Sn 189.927†	-0.2	-17.9	-2.9012 ug/L	-2.9012 ppb	22:29:12
2	Ti 334.940†	-1882.7	-309.7	-0.4605 ug/L	-0.4605 ppb	22:28:52
2	Tl 190.801†	-39.2	1.5	0.4218 ug/L	0.4218 ppb	22:29:12
2	U 409.014†	-4527.9	-495.6	-16.086 ug/L	-16.086 ppb	22:28:52
2	V 292.402†	-1728.0	-131.8	-0.9436 ug/L	-0.9436 ppb	22:28:52
2	Zn 213.857†	732.6	34.8	0.2940 ug/L	0.2940 ppb	22:29:12
2	SiO2†	576.3	81.1	5.1654 ug/L	5.1654 ppb	22:29:48
3	Sc Radial	3650.7	3650.7	92.2 %		22:28:20
3	Y RADIAL	3986.1	3986.1	87.83 %		22:28:00
3	Al 396.153Radial†	-192.2	-12.7	-11.459 ug/L	-11.459 ppb	22:28:00
3	Ca 317.933Radial†	14.1	-1.0	-1.8980 ug/L	-1.8980 ppb	22:28:20
3	Fe 238.204 Radial†	14.6	4.0	48.117 ug/L	48.117 ppb	22:28:20
3	K 766.490 Radial†	3215.5	457.3	79.749 ug/L	79.749 ppb	22:28:00
3	Mg 279.077 IEC†	2.7	-0.4	-17.724 ug/L	-17.724 ppb	22:28:20
3	Na 589.592 Radial†	-1668.5	-224.7	-64.430 ug/L	-64.430 ppb	22:28:00
3	Sr 421.552†	43.2	46.4	0.3134 ug/L	0.3134 ppb	22:28:00
3	Sc 361.383	836330.1	836330.1	96.712 %		22:29:18
3	Y 371.029	662647.6	662647.6	97.149 %		22:29:18
3	Ag 328.068†	441.5	21.4	0.1149 ug/L	0.1149 ppb	22:29:18
3	As 188.979†	-10.6	24.5	9.3349 ug/L	9.3349 ppb	22:29:38
3	B 249.677†	-589.3	-2.5	-0.0619 ug/L	-0.0619 ppb	22:29:18
3	Ba 233.527†	-27.8	-10.8	-0.0806 ug/L	-0.0806 ppb	22:29:38
3	Be 313.107†	-3712.9	105.0	0.0354 ug/L	0.0354 ppb	22:29:18
3	Cd 226.502†	-224.7	-32.7	-0.3466 ug/L	-0.3466 ppb	22:29:38
3	Co 228.616†	-81.6	2.0	0.0401 ug/L	0.0401 ppb	22:29:38
3	Cr 267.716†	49.2	-38.2	-0.4051 ug/L	-0.4051 ppb	22:29:18
3	Cu 324.752†	6821.9	205.5	0.5947 ug/L	0.5947 ppb	22:29:18
3	Mn 257.610†	558.9	85.5	0.0930 ug/L	0.0930 ppb	22:29:38
3	Mo 202.031†	20.9	18.8	1.2855 ug/L	1.2855 ppb	22:29:38
3	Ni 231.604†	76.5	-4.1	-0.0939 ug/L	-0.0939 ppb	22:29:38
3	P 214.914†	223.0	-3.9	-2.1769 ug/L	-2.1769 ppb	22:29:38
3	Pb 220.353†	-97.6	-29.8	-3.2626 ug/L	-3.2626 ppb	22:29:38
3	S 181.975 Axial†	41.7	-8.8	-10.597 ug/L	-10.597 ppb	22:29:38
3	Sb 206.836†	41.4	7.3	2.2349 ug/L	2.2349 ppb	22:29:38
3	Se 196.026†	-33.0	-4.6	-2.3346 ug/L	-2.3346 ppb	22:29:38
3	Si 251.611†	573.8	103.7	3.0702 ug/L	3.0702 ppb	22:29:38
3	Sn 189.927†	3.1	-14.4	-2.3373 ug/L	-2.3373 ppb	22:29:38
3	Ti 334.940†	-1746.9	-111.7	-0.1684 ug/L	-0.1684 ppb	22:29:18
3	Tl 190.801†	-49.3	-7.7	-2.2061 ug/L	-2.2061 ppb	22:29:38
3	U 409.014†	-4306.6	-128.3	-4.1674 ug/L	-4.1674 ppb	22:29:18
3	V 292.402†	-1711.7	-62.1	-0.4278 ug/L	-0.4278 ppb	22:29:18
3	Zn 213.857†	722.8	2.3	0.0147 ug/L	0.0147 ppb	22:29:38
3	SiO2†	608.7	97.0	6.1540 ug/L	6.1540 ppb	22:29:53

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	831059.6	96.103 %		1.9380			2.02%
Sc Radial	3703.0	93.5 %		1.67			1.78%
Y 371.029	657798.3	96.438 %		1.8988			1.97%
Y RADIAL	4173.6	91.96 %		4.386			4.77%
Ag 328.068†	29.3	0.1459 ug/L		0.20782	0.1459 ppb	0.20782	142.46%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-16.6	-14.963 ug/L		22.7535	-14.963 ppb	22.7535	152.07%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	14.1	5.3803 ug/L		3.47355	5.3803 ppb	3.47355	64.56%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-3.1	-0.0699 ug/L		0.01936	-0.0699 ppb	0.01936	27.71%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	2.5	0.0181 ug/L		0.12342	0.0181 ppb	0.12342	681.04%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	87.1	0.0292 ug/L		0.00701	0.0292 ppb	0.00701	24.02%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	0.3	0.4989 ug/L		2.07698	0.4989 ppb	2.07698	416.33%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	-29.6	-0.3124 ug/L	0.03615	-0.3124 ppb	0.03615	11.57%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	-2.4	-0.0428 ug/L	0.10586	-0.0428 ppb	0.10586	247.55%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-6.2	-0.0630 ug/L	0.33670	-0.0630 ppb	0.33670	534.32%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	211.5	0.6130 ug/L	0.35006	0.6130 ppb	0.35006	57.10%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	2.1	25.501 ug/L	19.6551	25.501 ppb	19.6551	77.08%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	318.6	55.560 ug/L	21.1941	55.560 ppb	21.1941	38.15%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.6	-26.643 ug/L	64.5943	-26.643 ppb	64.5943	242.45%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	75.4	0.0808 ug/L	0.01311	0.0808 ppb	0.01311	16.22%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	8.1	0.5544 ug/L	0.65965	0.5544 ppb	0.65965	118.98%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-160.2	-45.937 ug/L	16.0181	-45.937 ppb	16.0181	34.87%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	12.8	0.2919 ug/L	0.43936	0.2919 ppb	0.43936	150.50%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-0.4	-0.3924 ug/L	2.55486	-0.3924 ppb	2.55486	651.04%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	-12.8	-1.4048 ug/L	1.69357	-1.4048 ppb	1.69357	120.55%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	-3.7	-4.4416 ug/L	9.61424	-4.4416 ppb	9.61424	216.46%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	12.3	3.7591 ug/L	1.48488	3.7591 ppb	1.48488	39.50%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-2.2	-1.1281 ug/L	1.04636	-1.1281 ppb	1.04636	92.75%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	97.2	2.8854 ug/L	0.23704	2.8854 ppb	0.23704	8.22%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	-14.0	-2.2698 ug/L	0.66765	-2.2698 ppb	0.66765	29.41%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	47.2	0.3187 ug/L	0.00633	0.3187 ppb	0.00633	1.98%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	-155.9	-0.2333 ug/L	0.20261	-0.2333 ppb	0.20261	86.83%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	0.7	0.2029 ug/L	2.30742	0.2029 ppb	2.30742	>999.9%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	-260.4	-8.4549 ug/L	6.62541	-8.4549 ppb	6.62541	78.36%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	-91.2	-0.6454 ug/L	0.26715	-0.6454 ppb	0.26715	41.39%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	10.1	0.0809 ug/L	0.18892	0.0809 ppb	0.18892	233.59%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		79.8	5.0804 ug/L	1.11854	5.0804 ppb	1.11854	22.02%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 58

Sample ID: 245136004|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 65

Date Collected: 2/3/2010 22:32:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245136004|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3867.1	3867.1	97.7 %		22:34:16
1	Y RADIAL	4730.8	4730.8	104.2 %		22:34:16
1	Al 396.153Radial†	89590.1	91938.9	82594 ug/L	82594 ppb	22:33:56
1	Ca 317.933Radial†	8317.4	8501.0	16854 ug/L	16854 ppb	22:33:56
1	Fe 238.204 Radial†	11588.7	11855.4	141200 ug/L	141200 ppb	22:33:56
1	K 766.490 Radial†	81443.1	80369.6	14005 ug/L	14005 ppb	22:33:56
1	Mg 279.077 IEC†	342.1	347.1	14956 ug/L	14956 ppb	22:34:16
1	Na 589.592 Radial†	2279.7	3919.6	1123.9 ug/L	1123.9 ppb	22:33:56
1	Sr 421.552†	24419.3	25005.7	168.80 ug/L	168.80 ppb	22:33:56
1	Sc 361.383	863760.5	863760.5	99.884 %		22:35:15
1	Y 371.029	761432.8	761432.8	111.63 %		22:35:15
1	Ag 328.068†	-9127.4	-9573.1	5.2170 ug/L	5.2170 ppb	22:35:20
1	As 188.979†	-84.4	-49.1	56.543 ug/L	56.543 ppb	22:35:40
1	B 249.677†	726.9	1334.6	5.2979 ug/L	5.2979 ppb	22:35:20
1	Ba 233.527†	105754.0	105894.5	802.73 ug/L	802.73 ppb	22:35:20
1	Be 313.107†	-10134.5	-6202.1	8.9392 ug/L	8.9392 ppb	22:35:20
1	Cd 226.502†	1027.0	1227.8	-1.7671 ug/L	-1.7671 ppb	22:35:40
1	Co 228.616†	2327.2	2416.3	33.006 ug/L	33.006 ppb	22:35:40
1	Cr 267.716†	12047.6	11972.6	130.93 ug/L	130.93 ppb	22:35:20
1	Cu 324.752†	22102.6	15280.0	51.458 ug/L	51.458 ppb	22:35:20
1	Mn 257.610†	2384748.3	2387018.8	2457.1 ug/L	2457.1 ppb	22:35:15
1	Mo 202.031†	-40.5	-43.4	8.2083 ug/L	8.2083 ppb	22:35:40
1	Ni 231.604†	3831.2	3752.4	85.233 ug/L	85.233 ppb	22:35:40
1	P 214.914†	1549.5	1316.8	567.47 ug/L	567.47 ppb	22:35:40
1	Pb 220.353†	588.5	660.4	76.679 ug/L	76.679 ppb	22:35:40
1	S 181.975 Axial†	429.2	377.7	441.62 ug/L	441.62 ppb	22:35:40
1	Sb 206.836†	95.5	60.1	-0.8544 ug/L	-0.8544 ppb	22:35:40
1	Se 196.026†	-775.1	-746.5	30.098 ug/L	30.098 ppb	22:35:40
1	Si 251.611†	855272.9	855774.3	25462 ug/L	25462 ppb	22:35:15
1	Sn 189.927†	-64.1	-81.8	-8.3501 ug/L	-8.3501 ppb	22:35:40
1	Ti 334.940†	3165895.0	3171257.5	4870.1 ug/L	4870.1 ppb	22:35:15
1	Tl 190.801†	-207.0	-164.0	4.5193 ug/L	4.5193 ppb	22:35:40
1	U 409.014†	-11380.6	-7069.0	-245.80 ug/L	-245.80 ppb	22:35:15
1	V 292.402†	35458.0	37206.9	232.32 ug/L	232.32 ppb	22:35:20
1	Zn 213.857†	41996.4	41300.0	338.98 ug/L	338.98 ppb	22:35:20
1	SiO2†	850197.1	850649.7	54292 ug/L	54292 ppb	22:36:50
2	Sc Radial	3885.1	3885.1	98.1 %		22:34:41
2	Y RADIAL	4747.5	4747.5	104.6 %		22:34:41
2	Al 396.153Radial†	89823.5	91751.5	82426 ug/L	82426 ppb	22:34:21
2	Ca 317.933Radial†	8324.3	8468.5	16790 ug/L	16790 ppb	22:34:21
2	Fe 238.204 Radial†	11634.2	11846.8	141100 ug/L	141100 ppb	22:34:21
2	K 766.490 Radial†	81661.5	80205.6	13977 ug/L	13977 ppb	22:34:21
2	Mg 279.077 IEC†	347.1	350.5	15106 ug/L	15106 ppb	22:34:41
2	Na 589.592 Radial†	2351.1	3981.6	1141.6 ug/L	1141.6 ppb	22:34:21
2	Sr 421.552†	24370.7	24840.3	167.68 ug/L	167.68 ppb	22:34:21
2	Sc 361.383	867267.0	867267.0	100.29 %		22:35:47
2	Y 371.029	765353.5	765353.5	112.21 %		22:35:47
2	Ag 328.068†	-9133.9	-9542.7	5.3282 ug/L	5.3282 ppb	22:35:52
2	As 188.979†	-86.7	-51.0	55.727 ug/L	55.727 ppb	22:36:12
2	B 249.677†	827.6	1432.0	7.3844 ug/L	7.3844 ppb	22:35:52
2	Ba 233.527†	106944.6	106653.6	808.45 ug/L	808.45 ppb	22:35:52
2	Be 313.107†	-10472.0	-6497.7	8.8186 ug/L	8.8186 ppb	22:35:52
2	Cd 226.502†	1026.9	1223.6	-1.8006 ug/L	-1.8006 ppb	22:36:12
2	Co 228.616†	2330.7	2410.4	32.917 ug/L	32.917 ppb	22:36:12
2	Cr 267.716†	12158.4	12034.2	131.59 ug/L	131.59 ppb	22:35:52
2	Cu 324.752†	22526.1	15612.7	52.407 ug/L	52.407 ppb	22:35:52
2	Mn 257.610†	2387039.2	2379650.2	2449.5 ug/L	2449.5 ppb	22:35:47
2	Mo 202.031†	-39.4	-42.2	8.2809 ug/L	8.2809 ppb	22:36:12
2	Ni 231.604†	3842.7	3748.4	85.141 ug/L	85.141 ppb	22:36:12

2	P 214.914†	1563.5	1324.6	571.28 ug/L	571.28 ppb	22:36:12
2	Pb 220.353†	611.8	681.3	78.937 ug/L	78.937 ppb	22:36:12
2	S 181.975 Axial†	428.7	375.6	439.00 ug/L	439.00 ppb	22:36:12
2	Sb 206.836†	95.4	59.6	-0.9081 ug/L	-0.9081 ppb	22:36:12
2	Se 196.026†	-776.1	-744.4	30.953 ug/L	30.953 ppb	22:36:12
2	Si 251.611†	856626.2	853661.8	25399 ug/L	25399 ppb	22:35:47
2	Sn 189.927†	-44.7	-62.2	-5.1702 ug/L	-5.1702 ppb	22:36:12
2	Ti 334.940†	3173026.6	3165553.8	4861.3 ug/L	4861.3 ppb	22:35:47
2	Tl 190.801†	-210.9	-167.1	3.5422 ug/L	3.5422 ppb	22:36:12
2	U 409.014†	-11346.1	-6988.6	-243.18 ug/L	-243.18 ppb	22:35:47
2	V 292.402†	35905.8	37509.9	234.45 ug/L	234.45 ppb	22:35:52
2	Zn 213.857†	42541.1	41673.1	342.18 ug/L	342.18 ppb	22:35:52
2	SiO2†	848939.8	845954.7	53993 ug/L	53993 ppb	22:36:56
3	Sc Radial	3913.4	3913.4	98.8 %		22:35:06
3	Y RADIAL	4776.7	4776.7	105.3 %		22:35:06
3	Al 396.153Radial†	91084.4	92365.3	82977 ug/L	82977 ppb	22:34:46
3	Ca 317.933Radial†	8428.8	8512.9	16878 ug/L	16878 ppb	22:34:46
3	Fe 238.204 Radial†	11750.4	11878.6	141480 ug/L	141480 ppb	22:34:46
3	K 766.490 Radial†	82883.2	80839.9	14087 ug/L	14087 ppb	22:34:46
3	Mg 279.077 IEC†	346.9	347.7	14983 ug/L	14983 ppb	22:35:06
3	Na 589.592 Radial†	2353.6	3966.8	1137.4 ug/L	1137.4 ppb	22:34:46
3	Sr 421.552†	24826.1	25121.5	169.58 ug/L	169.58 ppb	22:34:46
3	Sc 361.383	866445.3	866445.3	100.19 %		22:36:19
3	Y 371.029	766425.3	766425.3	112.36 %		22:36:19
3	Ag 328.068†	-9195.9	-9613.2	5.1364 ug/L	5.1364 ppb	22:36:24
3	As 188.979†	-79.5	-43.9	58.435 ug/L	58.435 ppb	22:36:44
3	B 249.677†	688.1	1293.6	4.3834 ug/L	4.3834 ppb	22:36:24
3	Ba 233.527†	107195.5	107005.2	811.11 ug/L	811.11 ppb	22:36:24
3	Be 313.107†	-10479.8	-6515.4	8.7913 ug/L	8.7913 ppb	22:36:24
3	Cd 226.502†	1050.8	1248.3	-1.5810 ug/L	-1.5810 ppb	22:36:44
3	Co 228.616†	2312.3	2394.2	32.634 ug/L	32.634 ppb	22:36:44
3	Cr 267.716†	12203.4	12090.6	132.20 ug/L	132.20 ppb	22:36:24
3	Cu 324.752†	22516.0	15623.9	52.456 ug/L	52.456 ppb	22:36:24
3	Mn 257.610†	2379194.6	2374077.9	2443.9 ug/L	2443.9 ppb	22:36:19
3	Mo 202.031†	-27.2	-29.9	9.1451 ug/L	9.1451 ppb	22:36:44
3	Ni 231.604†	3803.6	3713.1	84.339 ug/L	84.339 ppb	22:36:44
3	P 214.914†	1541.9	1304.4	560.82 ug/L	560.82 ppb	22:36:44
3	Pb 220.353†	588.2	658.2	76.504 ug/L	76.504 ppb	22:36:44
3	S 181.975 Axial†	424.3	371.5	434.04 ug/L	434.04 ppb	22:36:44
3	Sb 206.836†	99.3	63.6	0.2871 ug/L	0.2871 ppb	22:36:44
3	Se 196.026†	-780.3	-749.2	29.486 ug/L	29.486 ppb	22:36:44
3	Si 251.611†	853517.7	851369.2	25331 ug/L	25331 ppb	22:36:19
3	Sn 189.927†	-66.9	-84.4	-8.7597 ug/L	-8.7597 ppb	22:36:44
3	Ti 334.940†	3163909.7	3159454.8	4852.0 ug/L	4852.0 ppb	22:36:19
3	Tl 190.801†	-220.8	-177.2	0.5540 ug/L	0.5540 ppb	22:36:44
3	U 409.014†	-11189.9	-6843.4	-238.51 ug/L	-238.51 ppb	22:36:19
3	V 292.402†	36068.2	37705.9	235.79 ug/L	235.79 ppb	22:36:24
3	Zn 213.857†	42624.1	41796.1	343.20 ug/L	343.20 ppb	22:36:24
3	SiO2†	850265.4	848080.4	54128 ug/L	54128 ppb	22:37:02

Mean Data: 245136004|944111|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	865824.3	100.12 %	0.212			0.21%
Sc Radial	3888.5	98.2 %	0.59			0.60%
Y 371.029	764403.9	112.07 %	0.385			0.34%
Y RADIAL	4751.7	104.7 %	0.51			0.49%
Ag 328.068†	-9576.3	5.2272 ug/L	0.09628	5.2272 ppb	0.09628	1.84%
Al 396.153Radial†	92018.6	82665 ug/L	282.6	82665 ppb	282.6	0.34%
As 188.979†	-48.0	56.902 ug/L	1.3894	56.902 ppb	1.3894	2.44%
B 249.677†	1353.4	5.6886 ug/L	1.53817	5.6886 ppb	1.53817	27.04%
Ba 233.527†	106517.8	807.43 ug/L	4.284	807.43 ppb	4.284	0.53%
Be 313.107†	-6405.0	8.8497 ug/L	0.07873	8.8497 ppb	0.07873	0.89%
Ca 317.933Radial†	8494.1	16841 ug/L	45.6	16841 ppb	45.6	0.27%
Cd 226.502†	1233.2	-1.7162 ug/L	0.11834	-1.7162 ppb	0.11834	6.90%
Co 228.616†	2407.0	32.852 ug/L	0.1940	32.852 ppb	0.1940	0.59%
Cr 267.716†	12032.5	131.57 ug/L	0.634	131.57 ppb	0.634	0.48%
Cu 324.752†	15505.5	52.107 ug/L	0.5623	52.107 ppb	0.5623	1.08%
Fe 238.204 Radial†	11860.2	141260 ug/L	195.8	141260 ppb	195.8	0.14%
K 766.490 Radial†	80471.7	14023 ug/L	57.4	14023 ppb	57.4	0.41%

Mg 279.077 IEC†	348.4	15015 ug/L	79.9	15015 ppb	79.9	0.53%
Mn 257.610†	2380249.0	2450.2 ug/L	6.63	2450.2 ppb	6.63	0.27%
Mo 202.031†	-38.5	8.5448 ug/L	0.52114	8.5448 ppb	0.52114	6.10%
Na 589.592 Radial†	3956.0	1134.3 ug/L	9.27	1134.3 ppb	9.27	0.82%
Ni 231.604†	3737.9	84.904 ug/L	0.4918	84.904 ppb	0.4918	0.58%
P 214.914†	1315.3	566.53 ug/L	5.293	566.53 ppb	5.293	0.93%
Pb 220.353†	666.6	77.373 ug/L	1.3568	77.373 ppb	1.3568	1.75%
S 181.975 Axial†	375.0	438.22 ug/L	3.849	438.22 ppb	3.849	0.88%
Sb 206.836†	61.1	-0.4918 ug/L	0.67508	-0.4918 ppb	0.67508	137.27%
Se 196.026†	-746.7	30.179 ug/L	0.7370	30.179 ppb	0.7370	2.44%
Si 251.611†	853601.8	25398 ug/L	65.6	25398 ppb	65.6	0.26%
Sn 189.927†	-76.1	-7.4267 ug/L	1.96490	-7.4267 ppb	1.96490	26.46%
Sr 421.552†	24989.2	168.69 ug/L	0.954	168.69 ppb	0.954	0.57%
Ti 334.940†	3165422.0	4861.1 ug/L	9.06	4861.1 ppb	9.06	0.19%
Tl 190.801†	-169.4	2.8719 ug/L	2.06592	2.8719 ppb	2.06592	71.94%
U 409.014†	-6967.0	-242.49 ug/L	3.692	-242.49 ppb	3.692	1.52%
V 292.402†	37474.3	234.19 ug/L	1.750	234.19 ppb	1.750	0.75%
Zn 213.857†	41589.8	341.46 ug/L	2.202	341.46 ppb	2.202	0.65%
SiO2†	848228.2	54138 ug/L	150.1	54138 ppb	150.1	0.28%

Sequence No.: 59

Sample ID: 245136005|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 66

Date Collected: 2/3/2010 22:39:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245136005|944111|1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3736.9	3736.9	94.4 %		22:41:27
1	Y RADIAL	4419.0	4419.0	97.37 %		22:41:07
1	Al 396.153Radial†	53345.0	56725.6	50960 ug/L	50960 ppb	22:41:07
1	Ca 317.933Radial†	5730.9	6056.8	12008 ug/L	12008 ppb	22:41:07
1	Fe 238.204 Radial†	7806.8	8261.1	98393 ug/L	98393 ppb	22:41:07
1	K 766.490 Radial†	50973.7	50986.2	8882.9 ug/L	8882.9 ppb	22:41:07
1	Mg 279.077 IEC†	207.0	216.1	9300.7 ug/L	9300.7 ppb	22:41:27
1	Na 589.592 Radial†	669.1	2294.2	657.83 ug/L	657.83 ppb	22:41:07
1	Sr 421.552†	16262.6	17233.1	116.33 ug/L	116.33 ppb	22:41:07
1	Sc 361.383	837277.6	837277.6	96.822 %		22:42:30
1	Y 371.029	704503.0	704503.0	103.29 %		22:42:30
1	Ag 328.068†	-5915.0	-6544.3	4.1981 ug/L	4.1981 ppb	22:42:30
1	As 188.979†	-54.5	-20.9	49.905 ug/L	49.905 ppb	22:42:50
1	B 249.677†	510.3	1133.9	7.9237 ug/L	7.9237 ppb	22:42:30
1	Ba 233.527†	124720.9	128832.9	974.11 ug/L	974.11 ppb	22:42:30
1	Be 313.107†	-14345.4	-10872.2	5.4170 ug/L	5.4170 ppb	22:42:30
1	Cd 226.502†	710.7	933.6	-0.4118 ug/L	-0.4118 ppb	22:42:50
1	Co 228.616†	3382.4	3579.8	57.149 ug/L	57.149 ppb	22:42:50
1	Cr 267.716†	6960.9	7100.3	77.971 ug/L	77.971 ppb	22:42:50
1	Cu 324.752†	20549.5	14375.7	46.528 ug/L	46.528 ppb	22:42:30
1	Mn 257.610†	4842785.2	5001257.5	5129.5 ug/L	5129.5 ppb	22:42:25
1	Mo 202.031†	0.5	-2.3	7.6266 ug/L	7.6266 ppb	22:42:50
1	Ni 231.604†	2253.7	2244.0	50.957 ug/L	50.957 ppb	22:42:50
1	P 214.914†	2026.0	1858.0	869.75 ug/L	869.75 ppb	22:42:50
1	Pb 220.353†	1086.3	1193.1	132.21 ug/L	132.21 ppb	22:42:50
1	S 181.975 Axial†	637.6	606.6	724.51 ug/L	724.51 ppb	22:42:50
1	Sb 206.836†	78.4	45.4	-1.3506 ug/L	-1.3506 ppb	22:42:50
1	Se 196.026†	-544.5	-532.8	14.228 ug/L	14.228 ppb	22:42:50
1	Si 251.611†	556169.7	573936.5	17077 ug/L	17077 ppb	22:42:30
1	Sn 189.927†	-41.1	-60.1	-6.2773 ug/L	-6.2773 ppb	22:42:50
1	Ti 334.940†	2532747.1	2617579.2	4019.8 ug/L	4019.8 ppb	22:42:25
1	Tl 190.801†	-243.9	-208.7	-2.4660 ug/L	-2.4660 ppb	22:42:50
1	U 409.014†	-7289.0	-3203.5	-115.35 ug/L	-115.35 ppb	22:42:30
1	V 292.402†	24748.4	27268.6	170.65 ug/L	170.65 ppb	22:42:30
1	Zn 213.857†	32961.7	33298.5	274.91 ug/L	274.91 ppb	22:42:30
1	SiO2†	566234.1	584288.3	37292 ug/L	37292 ppb	22:43:59
2	Sc Radial	3759.6	3759.6	94.9 %		22:41:52
2	Y RADIAL	4619.7	4619.7	101.8 %		22:41:32
2	Al 396.153Radial†	54063.4	57141.1	51333 ug/L	51333 ppb	22:41:32
2	Ca 317.933Radial†	5855.0	6150.8	12195 ug/L	12195 ppb	22:41:32
2	Fe 238.204 Radial†	7938.3	8349.7	99448 ug/L	99448 ppb	22:41:32
2	K 766.490 Radial†	51782.3	51511.9	8974.6 ug/L	8974.6 ppb	22:41:32
2	Mg 279.077 IEC†	200.1	207.5	8925.8 ug/L	8925.8 ppb	22:41:52
2	Na 589.592 Radial†	755.4	2380.7	682.64 ug/L	682.64 ppb	22:41:32
2	Sr 421.552†	16567.2	17449.9	117.79 ug/L	117.79 ppb	22:41:32
2	Sc 361.383	844546.4	844546.4	97.662 %		22:43:01
2	Y 371.029	711221.7	711221.7	104.27 %		22:43:01
2	Ag 328.068†	-5949.8	-6527.3	4.6318 ug/L	4.6318 ppb	22:43:01
2	As 188.979†	-59.9	-25.9	47.842 ug/L	47.842 ppb	22:43:21
2	B 249.677†	408.1	1024.7	5.4337 ug/L	5.4337 ppb	22:43:01
2	Ba 233.527†	125927.2	128959.4	975.09 ug/L	975.09 ppb	22:43:01
2	Be 313.107†	-14544.3	-10948.4	5.2873 ug/L	5.2873 ppb	22:43:01
2	Cd 226.502†	720.0	936.8	-0.4869 ug/L	-0.4869 ppb	22:43:21
2	Co 228.616†	3398.3	3566.0	56.971 ug/L	56.971 ppb	22:43:21
2	Cr 267.716†	6999.1	7077.6	77.750 ug/L	77.750 ppb	22:43:21
2	Cu 324.752†	20599.2	14243.9	46.204 ug/L	46.204 ppb	22:43:01
2	Mn 257.610†	4830592.8	4945724.2	5072.8 ug/L	5072.8 ppb	22:42:56
2	Mo 202.031†	-16.9	-20.1	6.4951 ug/L	6.4951 ppb	22:43:21
2	Ni 231.604†	2277.6	2248.9	51.058 ug/L	51.058 ppb	22:43:21

2	P 214.914†	2024.1	1838.1	858.91 ug/L	858.91 ppb	22:43:21
2	Pb 220.353†	1081.2	1178.2	130.56 ug/L	130.56 ppb	22:43:21
2	S 181.975 Axial†	645.8	609.3	727.69 ug/L	727.69 ppb	22:43:21
2	Sb 206.836†	98.7	65.5	4.9387 ug/L	4.9387 ppb	22:43:21
2	Se 196.026†	-547.3	-530.9	18.533 ug/L	18.533 ppb	22:43:21
2	Si 251.611†	562369.3	575340.5	17118 ug/L	17118 ppb	22:43:01
2	Sn 189.927†	-45.0	-63.7	-6.8112 ug/L	-6.8112 ppb	22:43:21
2	Ti 334.940†	2525680.1	2587828.7	3974.1 ug/L	3974.1 ppb	22:42:56
2	Tl 190.801†	-251.4	-214.2	-4.7048 ug/L	-4.7048 ppb	22:43:21
2	U 409.014†	-7291.7	-3141.4	-113.46 ug/L	-113.46 ppb	22:43:01
2	V 292.402†	25127.2	27436.4	171.69 ug/L	171.69 ppb	22:43:01
2	Zn 213.857†	33347.1	33400.2	275.68 ug/L	275.68 ppb	22:43:01
2	SiO2†	571570.7	584719.2	37319 ug/L	37319 ppb	22:44:04
3	Sc Radial	3776.1	3776.1	95.4 %		22:42:17
3	Y RADIAL	4524.2	4524.2	99.69 %		22:41:57
3	Al 396.153Radial†	53618.3	56424.7	50689 ug/L	50689 ppb	22:41:57
3	Ca 317.933Radial†	5795.8	6061.7	12018 ug/L	12018 ppb	22:41:57
3	Fe 238.204 Radial†	7902.0	8274.9	98557 ug/L	98557 ppb	22:41:57
3	K 766.490 Radial†	51593.8	51075.0	8898.4 ug/L	8898.4 ppb	22:41:57
3	Mg 279.077 IEC†	204.0	210.6	9063.2 ug/L	9063.2 ppb	22:42:17
3	Na 589.592 Radial†	667.7	2285.4	655.29 ug/L	655.29 ppb	22:41:57
3	Sr 421.552†	16444.4	17244.6	116.41 ug/L	116.41 ppb	22:41:57
3	Sc 361.383	842298.4	842298.4	97.402 %		22:43:33
3	Y 371.029	708605.5	708605.5	103.89 %		22:43:33
3	Ag 328.068†	-5794.7	-6384.4	4.9857 ug/L	4.9857 ppb	22:43:33
3	As 188.979†	-57.6	-23.6	48.654 ug/L	48.654 ppb	22:43:53
3	B 249.677†	461.5	1080.7	6.7659 ug/L	6.7659 ppb	22:43:33
3	Ba 233.527†	125468.0	128832.1	974.11 ug/L	974.11 ppb	22:43:33
3	Be 313.107†	-14467.8	-10909.6	5.3423 ug/L	5.3423 ppb	22:43:33
3	Cd 226.502†	733.6	952.8	-0.2295 ug/L	-0.2295 ppb	22:43:53
3	Co 228.616†	3407.8	3585.1	57.302 ug/L	57.302 ppb	22:43:53
3	Cr 267.716†	6985.7	7082.9	77.792 ug/L	77.792 ppb	22:43:53
3	Cu 324.752†	20620.1	14321.7	46.383 ug/L	46.383 ppb	22:43:33
3	Mn 257.610†	4840952.2	4969560.8	5097.1 ug/L	5097.1 ppb	22:43:28
3	Mo 202.031†	-5.0	-8.0	7.2496 ug/L	7.2496 ppb	22:43:53
3	Ni 231.604†	2284.4	2262.2	51.359 ug/L	51.359 ppb	22:43:53
3	P 214.914†	2051.7	1871.9	876.61 ug/L	876.61 ppb	22:43:53
3	Pb 220.353†	1092.0	1192.4	132.05 ug/L	132.05 ppb	22:43:53
3	S 181.975 Axial†	646.0	611.3	730.23 ug/L	730.23 ppb	22:43:53
3	Sb 206.836†	85.0	51.7	0.6378 ug/L	0.6378 ppb	22:43:53
3	Se 196.026†	-539.9	-524.8	19.120 ug/L	19.120 ppb	22:43:53
3	Si 251.611†	561125.9	575600.8	17126 ug/L	17126 ppb	22:43:33
3	Sn 189.927†	-58.7	-77.9	-9.1697 ug/L	-9.1697 ppb	22:43:53
3	Ti 334.940†	2530647.2	2599830.5	3992.5 ug/L	3992.5 ppb	22:43:28
3	Tl 190.801†	-237.1	-200.2	-0.4167 ug/L	-0.4167 ppb	22:43:53
3	U 409.014†	-7453.2	-3327.2	-119.38 ug/L	-119.38 ppb	22:43:33
3	V 292.402†	25013.1	27388.0	171.47 ug/L	171.47 ppb	22:43:33
3	Zn 213.857†	33220.3	33361.1	275.43 ug/L	275.43 ppb	22:43:33
3	SiO2†	565153.2	579692.5	36999 ug/L	36999 ppb	22:44:10

Mean Data: 245136005|944111|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	841374.2	97.296 %		0.4304			0.44%
Sc Radial	3757.5	94.9 %		0.50			0.52%
Y 371.029	708110.0	103.81 %		0.497			0.48%
Y RADIAL	4521.0	99.62 %		2.211			2.22%
Ag 328.068†	-6485.3	4.6052 ug/L		0.39448	4.6052 ppb	0.39448	8.57%
Al 396.153Radial†	56763.8	50994 ug/L		323.2	50994 ppb	323.2	0.63%
As 188.979†	-23.5	48.800 ug/L		1.0391	48.800 ppb	1.0391	2.13%
B 249.677†	1079.7	6.7078 ug/L		1.24605	6.7078 ppb	1.24605	18.58%
Ba 233.527†	128874.8	974.44 ug/L		0.570	974.44 ppb	0.570	0.06%
Be 313.107†	-10910.0	5.3488 ug/L		0.06509	5.3488 ppb	0.06509	1.22%
Ca 317.933Radial†	6089.7	12074 ug/L		104.9	12074 ppb	104.9	0.87%
Cd 226.502†	941.1	-0.3760 ug/L		0.13235	-0.3760 ppb	0.13235	35.20%
Co 228.616†	3577.0	57.141 ug/L		0.1656	57.141 ppb	0.1656	0.29%
Cr 267.716†	7087.0	77.837 ug/L		0.1174	77.837 ppb	0.1174	0.15%
Cu 324.752†	14313.8	46.372 ug/L		0.1621	46.372 ppb	0.1621	0.35%
Fe 238.204 Radial†	8295.2	98800 ug/L		567.7	98800 ppb	567.7	0.57%
K 766.490 Radial†	51191.0	8918.6 ug/L		49.03	8918.6 ppb	49.03	0.55%

Mg 279.077 IEC†	211.4	9096.6 ug/L	189.67	9096.6 ppb	189.67	2.09%
Mn 257.610†	4972180.8	5099.8 ug/L	28.46	5099.8 ppb	28.46	0.56%
Mo 202.031†	-10.1	7.1238 ug/L	0.57614	7.1238 ppb	0.57614	8.09%
Na 589.592 Radial†	2320.1	665.25 ug/L	15.110	665.25 ppb	15.110	2.27%
Ni 231.604†	2251.8	51.125 ug/L	0.2093	51.125 ppb	0.2093	0.41%
P 214.914†	1856.0	868.42 ug/L	8.924	868.42 ppb	8.924	1.03%
Pb 220.353†	1187.9	131.61 ug/L	0.909	131.61 ppb	0.909	0.69%
S 181.975 Axial†	609.1	727.48 ug/L	2.864	727.48 ppb	2.864	0.39%
Sb 206.836†	54.2	1.4087 ug/L	3.21472	1.4087 ppb	3.21472	228.21%
Se 196.026†	-529.5	17.294 ug/L	2.6714	17.294 ppb	2.6714	15.45%
Si 251.611†	574959.2	17107 ug/L	26.6	17107 ppb	26.6	0.16%
Sn 189.927†	-67.2	-7.4194 ug/L	1.53917	-7.4194 ppb	1.53917	20.75%
Sr 421.552†	17309.2	116.84 ug/L	0.823	116.84 ppb	0.823	0.70%
Ti 334.940†	2601746.1	3995.5 ug/L	22.95	3995.5 ppb	22.95	0.57%
Tl 190.801†	-207.7	-2.5292 ug/L	2.14479	-2.5292 ppb	2.14479	84.80%
U 409.014†	-3224.0	-116.06 ug/L	3.028	-116.06 ppb	3.028	2.61%
V 292.402†	27364.4	171.27 ug/L	0.547	171.27 ppb	0.547	0.32%
Zn 213.857†	33353.3	275.34 ug/L	0.391	275.34 ppb	0.391	0.14%
SiO2†	582900.0	37203 ug/L	177.8	37203 ppb	177.8	0.48%

Sequence No.: 60

Sample ID: 245136006|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 67

Date Collected: 2/3/2010 22:46:21

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245136006|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3783.4	3783.4	95.5 %		22:48:33
1	Y RADIAL	4874.4	4874.4	107.4 %		22:48:13
1	Al 396.153Radial†	38430.3	40420.3	36311 ug/L	36311 ppb	22:48:13
1	Ca 317.933Radial†	4366.1	4553.7	9028.3 ug/L	9028.3 ppb	22:48:13
1	Fe 238.204 Radial†	6830.6	7137.7	85012 ug/L	85012 ppb	22:48:13
1	K 766.490 Radial†	32314.9	30792.8	5364.2 ug/L	5364.2 ppb	22:48:13
1	Mg 279.077 IEC†	135.9	139.0	5959.6 ug/L	5959.6 ppb	22:48:33
1	Na 589.592 Radial†	2226.3	3915.4	1122.7 ug/L	1122.7 ppb	22:48:13
1	Sr 421.552†	10336.8	10818.9	73.020 ug/L	73.020 ppb	22:48:13
1	Sc 361.383	875850.5	875850.5	101.28 %		22:49:31
1	Y 371.029	789663.2	789663.2	115.77 %		22:49:31
1	Ag 328.068†	-5083.3	-5454.1	4.4424 ug/L	4.4424 ppb	22:49:36
1	As 188.979†	-51.6	-15.5	40.660 ug/L	40.660 ppb	22:49:56
1	B 249.677†	77.1	682.9	0.6386 ug/L	0.6386 ppb	22:49:36
1	Ba 233.527†	52862.9	52211.6	396.21 ug/L	396.21 ppb	22:49:36
1	Be 313.107†	-7705.4	-3663.7	5.7548 ug/L	5.7548 ppb	22:49:36
1	Cd 226.502†	538.2	731.1	-1.0586 ug/L	-1.0586 ppb	22:49:56
1	Co 228.616†	1160.9	1232.6	15.309 ug/L	15.309 ppb	22:49:56
1	Cr 267.716†	34895.0	34364.1	368.51 ug/L	368.51 ppb	22:49:36
1	Cu 324.752†	16438.9	9382.5	31.557 ug/L	31.557 ppb	22:49:36
1	Mn 257.610†	2288669.8	2259200.2	2321.1 ug/L	2321.1 ppb	22:49:31
1	Mo 202.031†	368.6	361.1	31.309 ug/L	31.309 ppb	22:49:56
1	Ni 231.604†	9978.3	9768.8	221.95 ug/L	221.95 ppb	22:49:36
1	P 214.914†	1157.6	908.5	397.11 ug/L	397.11 ppb	22:49:56
1	Pb 220.353†	450.0	515.5	56.245 ug/L	56.245 ppb	22:49:56
1	S 181.975 Axial†	263.3	208.1	244.95 ug/L	244.95 ppb	22:49:56
1	Sb 206.836†	96.9	60.1	7.4029 ug/L	7.4029 ppb	22:49:56
1	Se 196.026†	-487.9	-452.2	16.924 ug/L	16.924 ppb	22:49:56
1	Si 251.611†	657819.8	649001.6	19310 ug/L	19310 ppb	22:49:31
1	Sn 189.927†	26.0	8.0	4.1029 ug/L	4.1029 ppb	22:49:56
1	Ti 334.940†	2033428.6	2009377.7	3085.8 ug/L	3085.8 ppb	22:49:31
1	Tl 190.801†	-167.3	-121.9	1.5011 ug/L	1.5011 ppb	22:49:56
1	U 409.014†	-11536.3	-7065.5	-239.81 ug/L	-239.81 ppb	22:49:31
1	V 292.402†	13975.7	15506.6	91.882 ug/L	91.882 ppb	22:49:36
1	Zn 213.857†	36584.9	35376.6	292.92 ug/L	292.92 ppb	22:49:36
1	SiO2†	656906.3	648056.7	41361 ug/L	41361 ppb	22:51:04
2	Sc Radial	3793.6	3793.6	95.8 %		22:48:58
2	Y RADIAL	4851.0	4851.0	106.9 %		22:48:38
2	Al 396.153Radial†	38136.1	40005.0	35938 ug/L	35938 ppb	22:48:38
2	Ca 317.933Radial†	4307.6	4480.3	8882.8 ug/L	8882.8 ppb	22:48:38
2	Fe 238.204 Radial†	6788.6	7074.6	84261 ug/L	84261 ppb	22:48:38
2	K 766.490 Radial†	32156.2	30536.2	5319.5 ug/L	5319.5 ppb	22:48:38
2	Mg 279.077 IEC†	138.2	141.0	6046.7 ug/L	6046.7 ppb	22:48:58
2	Na 589.592 Radial†	2266.4	3951.0	1132.9 ug/L	1132.9 ppb	22:48:38
2	Sr 421.552†	10306.7	10758.4	72.612 ug/L	72.612 ppb	22:48:38
2	Sc 361.383	870466.3	870466.3	100.66 %		22:50:02
2	Y 371.029	785447.1	785447.1	115.15 %		22:50:02
2	Ag 328.068†	-5039.7	-5441.8	4.2582 ug/L	4.2582 ppb	22:50:07
2	As 188.979†	-64.5	-28.6	35.534 ug/L	35.534 ppb	22:50:27
2	B 249.677†	31.3	637.9	-0.1967 ug/L	-0.1967 ppb	22:50:07
2	Ba 233.527†	53583.4	53250.2	404.02 ug/L	404.02 ppb	22:50:07
2	Be 313.107†	-7679.0	-3684.6	5.7555 ug/L	5.7555 ppb	22:50:07
2	Cd 226.502†	540.2	736.3	-0.9233 ug/L	-0.9233 ppb	22:50:27
2	Co 228.616†	1168.9	1247.6	15.592 ug/L	15.592 ppb	22:50:27
2	Cr 267.716†	35397.4	35076.4	376.10 ug/L	376.10 ppb	22:50:07
2	Cu 324.752†	16655.4	9698.0	32.424 ug/L	32.424 ppb	22:50:07
2	Mn 257.610†	2278962.9	2263534.3	2325.4 ug/L	2325.4 ppb	22:50:02
2	Mo 202.031†	364.8	359.5	31.143 ug/L	31.143 ppb	22:50:27
2	Ni 231.604†	10134.1	9984.5	226.85 ug/L	226.85 ppb	22:50:07

2	P 214.914†	1147.0	905.0	395.63 ug/L	395.63 ppb	22:50:27
2	Pb 220.353†	467.7	535.8	58.453 ug/L	58.453 ppb	22:50:27
2	S 181.975 Axial†	277.9	224.1	264.47 ug/L	264.47 ppb	22:50:27
2	Sb 206.836†	100.5	64.3	8.6981 ug/L	8.6981 ppb	22:50:27
2	Se 196.026†	-485.1	-452.4	14.496 ug/L	14.496 ppb	22:50:27
2	Si 251.611†	653612.5	648839.2	19305 ug/L	19305 ppb	22:50:02
2	Sn 189.927†	16.9	-0.9	2.6257 ug/L	2.6257 ppb	22:50:27
2	Ti 334.940†	2023188.1	2011622.8	3089.2 ug/L	3089.2 ppb	22:50:02
2	Tl 190.801†	-165.2	-120.9	1.8586 ug/L	1.8586 ppb	22:50:27
2	U 409.014†	-11528.3	-7128.0	-241.77 ug/L	-241.77 ppb	22:50:02
2	V 292.402†	14258.5	15872.9	94.524 ug/L	94.524 ppb	22:50:07
2	Zn 213.857†	37175.9	36187.2	299.89 ug/L	299.89 ppb	22:50:07
2	SiO2†	658992.1	654140.6	41749 ug/L	41749 ppb	22:51:10
3	Sc Radial	3769.9	3769.9	95.2 %		22:49:24
3	Y RADIAL	4957.5	4957.5	109.2 %		22:49:04
3	Al 396.153Radial†	39141.2	41310.7	37110 ug/L	37110 ppb	22:49:04
3	Ca 317.933Radial†	4416.6	4623.1	9165.8 ug/L	9165.8 ppb	22:49:04
3	Fe 238.204 Radial†	6988.9	7329.5	87297 ug/L	87297 ppb	22:49:04
3	K 766.490 Radial†	32760.7	31382.0	5466.9 ug/L	5466.9 ppb	22:49:04
3	Mg 279.077 IEC†	136.3	139.9	5997.3 ug/L	5997.3 ppb	22:49:24
3	Na 589.592 Radial†	2378.5	4083.6	1170.9 ug/L	1170.9 ppb	22:49:04
3	Sr 421.552†	10513.7	11043.4	74.535 ug/L	74.535 ppb	22:49:04
3	Sc 361.383	873780.0	873780.0	101.04 %		22:50:33
3	Y 371.029	785772.4	785772.4	115.20 %		22:50:33
3	Ag 328.068†	-5215.4	-5596.7	4.5715 ug/L	4.5715 ppb	22:50:38
3	As 188.979†	-63.6	-27.5	36.656 ug/L	36.656 ppb	22:50:58
3	B 249.677†	62.8	668.9	-0.0290 ug/L	-0.0290 ppb	22:50:38
3	Ba 233.527†	53368.6	52835.8	400.99 ug/L	400.99 ppb	22:50:38
3	Be 313.107†	-7589.9	-3567.5	5.7975 ug/L	5.7975 ppb	22:50:38
3	Cd 226.502†	545.0	739.0	-1.2101 ug/L	-1.2101 ppb	22:50:58
3	Co 228.616†	1156.4	1230.9	15.234 ug/L	15.234 ppb	22:50:58
3	Cr 267.716†	35296.0	34842.6	373.66 ug/L	373.66 ppb	22:50:38
3	Cu 324.752†	16504.0	9485.3	31.974 ug/L	31.974 ppb	22:50:38
3	Mn 257.610†	2288386.7	2264274.7	2326.5 ug/L	2326.5 ppb	22:50:33
3	Mo 202.031†	360.1	353.5	30.972 ug/L	30.972 ppb	22:50:58
3	Ni 231.604†	10100.2	9912.8	225.22 ug/L	225.22 ppb	22:50:38
3	P 214.914†	1125.1	879.0	380.43 ug/L	380.43 ppb	22:50:58
3	Pb 220.353†	457.5	523.9	57.119 ug/L	57.119 ppb	22:50:58
3	S 181.975 Axial†	262.1	207.5	244.08 ug/L	244.08 ppb	22:50:58
3	Sb 206.836†	99.3	62.8	8.1464 ug/L	8.1464 ppb	22:50:58
3	Se 196.026†	-473.2	-438.8	31.210 ug/L	31.210 ppb	22:50:58
3	Si 251.611†	657588.1	650311.2	19349 ug/L	19349 ppb	22:50:33
3	Sn 189.927†	22.2	4.3	3.5664 ug/L	3.5664 ppb	22:50:58
3	Ti 334.940†	2031477.3	2012204.0	3090.1 ug/L	3090.1 ppb	22:50:33
3	Tl 190.801†	-155.6	-110.8	4.7425 ug/L	4.7425 ppb	22:50:58
3	U 409.014†	-11565.1	-7120.9	-241.88 ug/L	-241.88 ppb	22:50:33
3	V 292.402†	14141.9	15703.8	92.902 ug/L	92.902 ppb	22:50:38
3	Zn 213.857†	36957.8	35831.2	296.56 ug/L	296.56 ppb	22:50:38
3	SiO2†	653088.3	645815.1	41218 ug/L	41218 ppb	22:51:15

Mean Data: 245136006|944111|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	873365.6	100.99 %	0.314			0.31%
Sc Radial	3782.3	95.5 %	0.30			0.31%
Y 371.029	786960.9	115.37 %	0.344			0.30%
Y RADIAL	4894.3	107.8 %	1.23			1.14%
Ag 328.068†	-5497.5	4.4240 ug/L	0.15747	4.4240 ppb	0.15747	3.56%
Al 396.153Radial†	40578.7	36453 ug/L	599.3	36453 ppb	599.3	1.64%
As 188.979†	-23.9	37.617 ug/L	2.6946	37.617 ppb	2.6946	7.16%
B 249.677†	663.2	0.1376 ug/L	0.44189	0.1376 ppb	0.44189	321.05%
Ba 233.527†	52765.9	400.41 ug/L	3.936	400.41 ppb	3.936	0.98%
Be 313.107†	-3638.6	5.7693 ug/L	0.02443	5.7693 ppb	0.02443	0.42%
Ca 317.933Radial†	4552.3	9025.6 ug/L	141.55	9025.6 ppb	141.55	1.57%
Cd 226.502†	735.5	-1.0640 ug/L	0.14347	-1.0640 ppb	0.14347	13.48%
Co 228.616†	1237.0	15.379 ug/L	0.1889	15.379 ppb	0.1889	1.23%
Cr 267.716†	34761.0	372.76 ug/L	3.874	372.76 ppb	3.874	1.04%
Cu 324.752†	9521.9	31.985 ug/L	0.4335	31.985 ppb	0.4335	1.36%
Fe 238.204 Radial†	7180.6	85523 ug/L	1581.2	85523 ppb	1581.2	1.85%
K 766.490 Radial†	30903.7	5383.5 ug/L	75.55	5383.5 ppb	75.55	1.40%

Mg 279.077 IEC†	139.9	6001.2 ug/L	43.64	6001.2 ppb	43.64	0.73%
Mn 257.610†	2262336.4	2324.3 ug/L	2.87	2324.3 ppb	2.87	0.12%
Mo 202.031†	358.1	31.141 ug/L	0.1688	31.141 ppb	0.1688	0.54%
Na 589.592 Radial†	3983.3	1142.2 ug/L	25.42	1142.2 ppb	25.42	2.23%
Ni 231.604†	9888.7	224.67 ug/L	2.496	224.67 ppb	2.496	1.11%
P 214.914†	897.5	391.06 ug/L	9.235	391.06 ppb	9.235	2.36%
Pb 220.353†	525.1	57.272 ug/L	1.1116	57.272 ppb	1.1116	1.94%
S 181.975 Axial†	213.2	251.17 ug/L	11.529	251.17 ppb	11.529	4.59%
Sb 206.836†	62.4	8.0825 ug/L	0.64993	8.0825 ppb	0.64993	8.04%
Se 196.026†	-447.8	20.877 ug/L	9.0310	20.877 ppb	9.0310	43.26%
Si 251.611†	649384.0	19321 ug/L	24.0	19321 ppb	24.0	0.12%
Sn 189.927†	3.8	3.4317 ug/L	0.74777	3.4317 ppb	0.74777	21.79%
Sr 421.552†	10873.6	73.389 ug/L	1.0133	73.389 ppb	1.0133	1.38%
Ti 334.940†	2011068.2	3088.4 ug/L	2.29	3088.4 ppb	2.29	0.07%
Tl 190.801†	-117.9	2.7007 ug/L	1.77724	2.7007 ppb	1.77724	65.81%
U 409.014†	-7104.8	-241.15 ug/L	1.164	-241.15 ppb	1.164	0.48%
V 292.402†	15694.4	93.102 ug/L	1.3324	93.102 ppb	1.3324	1.43%
Zn 213.857†	35798.3	296.46 ug/L	3.488	296.46 ppb	3.488	1.18%
SiO2†	649337.5	41443 ug/L	275.0	41443 ppb	275.0	0.66%

Sequence No.: 61

Sample ID: 245136007|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 68

Date Collected: 2/3/2010 22:53:26

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245136007|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3771.5	3771.5	95.2 %		22:55:39
1	Y RADIAL	4568.9	4568.9	100.7 %		22:55:19
1	Al 396.153Radial†	56445.2	59461.6	53417 ug/L	53417 ppb	22:55:19
1	Ca 317.933Radial†	5645.8	5911.6	11721 ug/L	11721 ppb	22:55:19
1	Fe 238.204 Radial†	9330.1	9784.5	116540 ug/L	116540 ppb	22:55:19
1	K 766.490 Radial†	50254.4	49734.9	8665.7 ug/L	8665.7 ppb	22:55:19
1	Mg 279.077 IEC†	222.7	230.6	9912.4 ug/L	9912.4 ppb	22:55:39
1	Na 589.592 Radial†	858.4	2486.4	712.93 ug/L	712.93 ppb	22:55:19
1	Sr 421.552†	16876.7	17719.6	119.62 ug/L	119.62 ppb	22:55:19
1	Sc 361.383	827287.8	827287.8	95.667 %		22:56:37
1	Y 371.029	716863.2	716863.2	105.10 %		22:56:37
1	Ag 328.068†	-4821.9	-5475.4	15.342 ug/L	15.342 ppb	22:56:42
1	As 188.979†	-76.6	-44.7	54.192 ug/L	54.192 ppb	22:57:02
1	B 249.677†	441.7	1068.5	3.6392 ug/L	3.6392 ppb	22:56:42
1	Ba 233.527†	96735.7	101135.6	766.03 ug/L	766.03 ppb	22:56:42
1	Be 313.107†	-18372.1	-15260.2	6.3119 ug/L	6.3119 ppb	22:56:42
1	Cd 226.502†	878.1	1117.4	-0.3235 ug/L	-0.3235 ppb	22:57:02
1	Co 228.616†	2423.9	2620.1	36.680 ug/L	36.680 ppb	22:57:02
1	Cr 267.716†	21712.4	22606.9	243.82 ug/L	243.82 ppb	22:56:42
1	Cu 324.752†	21571.7	15700.5	51.325 ug/L	51.325 ppb	22:56:42
1	Mn 257.610†	2814675.5	2941678.9	3022.7 ug/L	3022.7 ppb	22:56:37
1	Mo 202.031†	102.4	104.2	16.284 ug/L	16.284 ppb	22:57:02
1	Ni 231.604†	5999.7	6188.3	140.58 ug/L	140.58 ppb	22:57:02
1	P 214.914†	1853.4	1702.9	776.13 ug/L	776.13 ppb	22:57:02
1	Pb 220.353†	923.6	1036.7	113.90 ug/L	113.90 ppb	22:57:02
1	S 181.975 Axial†	384.4	349.9	413.37 ug/L	413.37 ppb	22:57:02
1	Sb 206.836†	108.4	77.8	5.1929 ug/L	5.1929 ppb	22:57:02
1	Se 196.026†	-640.5	-640.0	12.157 ug/L	12.157 ppb	22:57:02
1	Si 251.611†	715613.7	747539.2	22242 ug/L	22242 ppb	22:56:37
1	Sn 189.927†	-33.5	-52.6	-4.8050 ug/L	-4.8050 ppb	22:57:02
1	Ti 334.940†	3158791.1	3303569.0	5072.9 ug/L	5072.9 ppb	22:56:37
1	Tl 190.801†	-227.7	-194.8	0.1930 ug/L	0.1930 ppb	22:57:02
1	U 409.014†	-9024.5	-5108.5	-179.61 ug/L	-179.61 ppb	22:56:37
1	V 292.402†	28290.7	31280.1	194.68 ug/L	194.68 ppb	22:56:42
1	Zn 213.857†	41590.3	42729.2	353.25 ug/L	353.25 ppb	22:56:42
1	SiO2†	701808.3	733065.5	46787 ug/L	46787 ppb	22:58:10
2	Sc Radial	3817.0	3817.0	96.4 %		22:56:04
2	Y RADIAL	4667.6	4667.6	102.8 %		22:55:44
2	Al 396.153Radial†	57400.5	59746.7	53673 ug/L	53673 ppb	22:55:44
2	Ca 317.933Radial†	5773.6	5973.6	11844 ug/L	11844 ppb	22:55:44
2	Fe 238.204 Radial†	9484.0	9827.5	117050 ug/L	117050 ppb	22:55:44
2	K 766.490 Radial†	50873.6	49748.9	8668.1 ug/L	8668.1 ppb	22:55:44
2	Mg 279.077 IEC†	220.3	225.3	9681.8 ug/L	9681.8 ppb	22:56:04
2	Na 589.592 Radial†	1005.2	2628.0	753.53 ug/L	753.53 ppb	22:55:44
2	Sr 421.552†	17121.4	17762.4	119.91 ug/L	119.91 ppb	22:55:44
2	Sc 361.383	859415.4	859415.4	99.382 %		22:57:08
2	Y 371.029	739636.8	739636.8	108.44 %		22:57:08
2	Ag 328.068†	-4978.0	-5444.1	15.619 ug/L	15.619 ppb	22:57:13
2	As 188.979†	-84.1	-49.2	50.035 ug/L	50.035 ppb	22:57:33
2	B 249.677†	381.2	990.4	1.9027 ug/L	1.9027 ppb	22:57:13
2	Ba 233.527†	96678.8	97298.2	737.12 ug/L	737.12 ppb	22:57:13
2	Be 313.107†	-18075.1	-14243.5	5.9920 ug/L	5.9920 ppb	22:57:13
2	Cd 226.502†	854.2	1059.1	-0.9875 ug/L	-0.9875 ppb	22:57:33
2	Co 228.616†	2391.8	2493.1	34.915 ug/L	34.915 ppb	22:57:33
2	Cr 267.716†	21705.5	21751.4	234.69 ug/L	234.69 ppb	22:57:13
2	Cu 324.752†	21675.5	14962.0	49.228 ug/L	49.228 ppb	22:57:13
2	Mn 257.610†	2761192.2	2777875.6	2855.1 ug/L	2855.1 ppb	22:57:08
2	Mo 202.031†	96.0	93.7	15.614 ug/L	15.614 ppb	22:57:33
2	Ni 231.604†	5941.2	5894.9	133.91 ug/L	133.91 ppb	22:57:33

2	P 214.914†	1845.1	1622.1	735.12 ug/L	735.12 ppb	22:57:33
2	Pb 220.353†	905.8	982.6	107.99 ug/L	107.99 ppb	22:57:33
2	S 181.975 Axial†	371.6	322.0	379.62 ug/L	379.62 ppb	22:57:33
2	Sb 206.836†	118.9	84.1	8.0160 ug/L	8.0160 ppb	22:57:33
2	Se 196.026†	-636.5	-610.9	29.470 ug/L	29.470 ppb	22:57:33
2	Si 251.611†	700854.2	704724.2	20968 ug/L	20968 ppb	22:57:08
2	Sn 189.927†	-44.1	-62.1	-6.3065 ug/L	-6.3065 ppb	22:57:33
2	Ti 334.940†	3091424.9	3112349.5	4779.3 ug/L	4779.3 ppb	22:57:08
2	Tl 190.801†	-233.9	-192.1	-2.2525 ug/L	-2.2525 ppb	22:57:33
2	U 409.014†	-9143.6	-4875.7	-172.10 ug/L	-172.10 ppb	22:57:08
2	V 292.402†	28314.2	30198.2	187.41 ug/L	187.41 ppb	22:57:13
2	Zn 213.857†	41651.2	41165.2	339.86 ug/L	339.86 ppb	22:57:13
2	SiO2†	703479.4	707322.9	45144 ug/L	45144 ppb	22:58:16
3	Sc Radial	3864.3	3864.3	97.6 %		22:56:29
3	Y RADIAL	4884.2	4884.2	107.6 %		22:56:09
3	Al 396.153Radial†	56998.5	58605.3	52648 ug/L	52648 ppb	22:56:09
3	Ca 317.933Radial†	5703.7	5828.6	11556 ug/L	11556 ppb	22:56:09
3	Fe 238.204 Radial†	9415.8	9637.1	114780 ug/L	114780 ppb	22:56:09
3	K 766.490 Radial†	50697.8	48922.0	8524.1 ug/L	8524.1 ppb	22:56:09
3	Mg 279.077 IEC†	223.7	225.9	9712.9 ug/L	9712.9 ppb	22:56:29
3	Na 589.592 Radial†	974.9	2584.2	740.97 ug/L	740.97 ppb	22:56:09
3	Sr 421.552†	16990.9	17411.0	117.53 ug/L	117.53 ppb	22:56:09
3	Sc 361.383	868449.8	868449.8	100.43 %		22:57:39
3	Y 371.029	747778.3	747778.3	109.63 %		22:57:39
3	Ag 328.068†	-4896.2	-5310.6	15.442 ug/L	15.442 ppb	22:57:44
3	As 188.979†	-92.7	-56.9	46.514 ug/L	46.514 ppb	22:58:04
3	B 249.677†	377.8	983.0	2.1151 ug/L	2.1151 ppb	22:57:44
3	Ba 233.527†	96414.7	96023.3	727.44 ug/L	727.44 ppb	22:57:44
3	Be 313.107†	-18142.5	-14121.4	6.0161 ug/L	6.0161 ppb	22:57:44
3	Cd 226.502†	869.5	1065.4	-0.6869 ug/L	-0.6869 ppb	22:58:04
3	Co 228.616†	2398.0	2474.2	34.613 ug/L	34.613 ppb	22:58:04
3	Cr 267.716†	21609.6	21428.8	231.20 ug/L	231.20 ppb	22:57:44
3	Cu 324.752†	21460.9	14521.5	47.839 ug/L	47.839 ppb	22:57:44
3	Mn 257.610†	2782925.0	2770612.9	2847.4 ug/L	2847.4 ppb	22:57:39
3	Mo 202.031†	116.3	113.0	16.745 ug/L	16.745 ppb	22:58:04
3	Ni 231.604†	5934.3	5825.9	132.35 ug/L	132.35 ppb	22:58:04
3	P 214.914†	1826.9	1584.7	717.93 ug/L	717.93 ppb	22:58:04
3	Pb 220.353†	917.5	984.8	108.23 ug/L	108.23 ppb	22:58:04
3	S 181.975 Axial†	381.8	328.2	387.32 ug/L	387.32 ppb	22:58:04
3	Sb 206.836†	100.9	65.0	2.2423 ug/L	2.2423 ppb	22:58:04
3	Se 196.026†	-641.4	-609.2	23.459 ug/L	23.459 ppb	22:58:04
3	Si 251.611†	707737.5	704242.0	20953 ug/L	20953 ppb	22:57:39
3	Sn 189.927†	-39.2	-56.7	-5.5222 ug/L	-5.5222 ppb	22:58:04
3	Ti 334.940†	3118857.0	3107305.2	4771.5 ug/L	4771.5 ppb	22:57:39
3	Tl 190.801†	-222.7	-178.6	1.5273 ug/L	1.5273 ppb	22:58:04
3	U 409.014†	-8994.7	-4631.8	-163.91 ug/L	-163.91 ppb	22:57:39
3	V 292.402†	28107.2	29695.7	184.29 ug/L	184.29 ppb	22:57:44
3	Zn 213.857†	41466.2	40545.0	334.79 ug/L	334.79 ppb	22:57:44
3	SiO2†	711774.1	708218.7	45201 ug/L	45201 ppb	22:58:21

Mean Data: 245136007|944111|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	851717.6	98.492 %		2.5017			2.54%
Sc Radial	3817.6	96.4 %		1.17			1.22%
Y 371.029	734759.4	107.72 %		2.349			2.18%
Y RADIAL	4706.9	103.7 %		3.55			3.43%
Ag 328.068†	-5410.0	15.468 ug/L		0.1402	15.468 ppb	0.1402	0.91%
Al 396.153Radial†	59271.2	53246 ug/L		533.7	53246 ppb	533.7	1.00%
As 188.979†	-50.2	50.247 ug/L		3.8433	50.247 ppb	3.8433	7.65%
B 249.677†	1014.0	2.5524 ug/L		0.94725	2.5524 ppb	0.94725	37.11%
Ba 233.527†	98152.4	743.53 ug/L		20.081	743.53 ppb	20.081	2.70%
Be 313.107†	-14541.7	6.1067 ug/L		0.17813	6.1067 ppb	0.17813	2.92%
Ca 317.933Radial†	5904.6	11707 ug/L		144.3	11707 ppb	144.3	1.23%
Cd 226.502†	1080.7	-0.6660 ug/L		0.33252	-0.6660 ppb	0.33252	49.93%
Co 228.616†	2529.1	35.403 ug/L		1.1163	35.403 ppb	1.1163	3.15%
Cr 267.716†	21929.0	236.57 ug/L		6.519	236.57 ppb	6.519	2.76%
Cu 324.752†	15061.3	49.464 ug/L		1.7548	49.464 ppb	1.7548	3.55%
Fe 238.204 Radial†	9749.7	116120 ug/L		1189.7	116120 ppb	1189.7	1.02%
K 766.490 Radial†	49468.6	8619.3 ug/L		82.47	8619.3 ppb	82.47	0.96%

Mg 279.077 IEC†	227.3	9769.0 ug/L	125.12	9769.0 ppb	125.12	1.28%
Mn 257.610†	2830055.8	2908.4 ug/L	99.07	2908.4 ppb	99.07	3.41%
Mo 202.031†	103.6	16.214 ug/L	0.5687	16.214 ppb	0.5687	3.51%
Na 589.592 Radial†	2566.2	735.81 ug/L	20.788	735.81 ppb	20.788	2.83%
Ni 231.604†	5969.7	135.61 ug/L	4.371	135.61 ppb	4.371	3.22%
P 214.914†	1636.6	743.06 ug/L	29.906	743.06 ppb	29.906	4.02%
Pb 220.353†	1001.4	110.04 ug/L	3.342	110.04 ppb	3.342	3.04%
S 181.975 Axial†	333.4	393.43 ug/L	17.688	393.43 ppb	17.688	4.50%
Sb 206.836†	75.6	5.1504 ug/L	2.88707	5.1504 ppb	2.88707	56.06%
Se 196.026†	-620.0	21.695 ug/L	8.7904	21.695 ppb	8.7904	40.52%
Si 251.611†	718835.1	21388 ug/L	739.7	21388 ppb	739.7	3.46%
Sn 189.927†	-57.1	-5.5446 ug/L	0.75100	-5.5446 ppb	0.75100	13.54%
Sr 421.552†	17631.0	119.02 ug/L	1.294	119.02 ppb	1.294	1.09%
Ti 334.940†	3174407.9	4874.6 ug/L	171.78	4874.6 ppb	171.78	3.52%
Tl 190.801†	-188.5	-0.1774 ug/L	1.91696	-0.1774 ppb	1.91696	>999.9%
U 409.014†	-4872.0	-171.87 ug/L	7.853	-171.87 ppb	7.853	4.57%
V 292.402†	30391.3	188.79 ug/L	5.329	188.79 ppb	5.329	2.82%
Zn 213.857†	41479.8	342.63 ug/L	9.535	342.63 ppb	9.535	2.78%
SiO2†	716202.4	45711 ug/L	932.5	45711 ppb	932.5	2.04%

Sequence No.: 62

Sample ID: 245136008|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 69

Date Collected: 2/3/2010 23:00:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245136008|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3849.2	3849.2	97.2 %		23:02:45
1	Y RADIAL	4659.8	4659.8	102.7 %		23:02:45
1	Al 396.153Radial†	109514.9	112861.6	101390 ug/L	101390 ppb	23:02:25
1	Ca 317.933Radial†	9585.2	9844.7	19519 ug/L	19519 ppb	23:02:25
1	Fe 238.204 Radial†	10877.8	11178.9	133140 ug/L	133140 ppb	23:02:25
1	K 766.490 Radial†	92252.9	91876.3	16010 ug/L	16010 ppb	23:02:25
1	Mg 279.077 IEC†	390.0	397.9	17177 ug/L	17177 ppb	23:02:45
1	Na 589.592 Radial†	3974.8	5674.3	1627.0 ug/L	1627.0 ppb	23:02:25
1	Sr 421.552†	29396.8	30242.1	204.15 ug/L	204.15 ppb	23:02:25
1	Sc 361.383	853457.3	853457.3	98.693 %		23:03:44
1	Y 371.029	743509.8	743509.8	109.00 %		23:03:44
1	Ag 328.068†	-8626.4	-9175.8	4.2550 ug/L	4.2550 ppb	23:03:44
1	As 188.979†	-72.5	-38.0	53.654 ug/L	53.654 ppb	23:04:04
1	B 249.677†	602.0	1216.8	4.0889 ug/L	4.0889 ppb	23:03:44
1	Ba 233.527†	155818.7	157900.6	1194.3 ug/L	1194.3 ppb	23:03:44
1	Be 313.107†	-3763.2	131.1	9.7295 ug/L	9.7295 ppb	23:03:44
1	Cd 226.502†	986.4	1199.1	-1.2378 ug/L	-1.2378 ppb	23:04:04
1	Co 228.616†	2572.7	2693.2	39.726 ug/L	39.726 ppb	23:04:04
1	Cr 267.716†	9691.7	9731.0	106.85 ug/L	106.85 ppb	23:04:04
1	Cu 324.752†	26013.3	19509.6	63.166 ug/L	63.166 ppb	23:03:44
1	Mn 257.610†	2262001.6	2291469.3	2358.4 ug/L	2358.4 ppb	23:03:44
1	Mo 202.031†	-79.3	-83.2	4.9026 ug/L	4.9026 ppb	23:04:04
1	Ni 231.604†	3406.4	3368.3	76.502 ug/L	76.502 ppb	23:04:04
1	P 214.914†	1746.6	1535.2	687.24 ug/L	687.24 ppb	23:04:04
1	Pb 220.353†	850.8	933.3	111.36 ug/L	111.36 ppb	23:04:04
1	S 181.975 Axial†	679.8	636.9	751.66 ug/L	751.66 ppb	23:04:04
1	Sb 206.836†	92.4	58.1	-0.0123 ug/L	-0.0123 ppb	23:04:04
1	Se 196.026†	-750.5	-731.0	13.379 ug/L	13.379 ppb	23:04:04
1	Si 251.611†	677396.9	685879.5	20407 ug/L	20407 ppb	23:03:44
1	Sn 189.927†	-81.2	-99.9	-11.017 ug/L	-11.017 ppb	23:04:04
1	Ti 334.940†	2740466.7	2778458.8	4267.2 ug/L	4267.2 ppb	23:03:44
1	Tl 190.801†	-198.2	-157.7	0.8511 ug/L	0.8511 ppb	23:04:04
1	U 409.014†	-10927.2	-6747.2	-234.38 ug/L	-234.38 ppb	23:03:44
1	V 292.402†	35001.9	37173.4	233.93 ug/L	233.93 ppb	23:03:44
1	Zn 213.857†	39028.5	38800.4	318.42 ug/L	318.42 ppb	23:03:44
1	SiO2†	679848.2	688320.4	43932 ug/L	43932 ppb	23:05:04
2	Sc Radial	3860.1	3860.1	97.5 %		23:03:10
2	Y RADIAL	4679.9	4679.9	103.1 %		23:03:10
2	Al 396.153Radial†	110864.1	113929.6	102350 ug/L	102350 ppb	23:02:50
2	Ca 317.933Radial†	9680.6	9914.9	19658 ug/L	19658 ppb	23:02:50
2	Fe 238.204 Radial†	11010.0	11283.2	134390 ug/L	134390 ppb	23:02:50
2	K 766.490 Radial†	93262.6	92645.9	16144 ug/L	16144 ppb	23:02:50
2	Mg 279.077 IEC†	395.1	402.0	17354 ug/L	17354 ppb	23:03:10
2	Na 589.592 Radial†	4092.6	5783.6	1658.4 ug/L	1658.4 ppb	23:02:50
2	Sr 421.552†	29715.5	30484.2	205.79 ug/L	205.79 ppb	23:02:50
2	Sc 361.383	859245.1	859245.1	99.362 %		23:04:11
2	Y 371.029	748093.1	748093.1	109.68 %		23:04:11
2	Ag 328.068†	-8508.6	-8998.4	5.4766 ug/L	5.4766 ppb	23:04:11
2	As 188.979†	-77.3	-42.4	52.104 ug/L	52.104 ppb	23:04:31
2	B 249.677†	733.2	1344.7	6.6059 ug/L	6.6059 ppb	23:04:11
2	Ba 233.527†	156127.0	157147.3	1188.7 ug/L	1188.7 ppb	23:04:11
2	Be 313.107†	-3628.5	292.3	9.7348 ug/L	9.7348 ppb	23:04:11
2	Cd 226.502†	973.4	1179.3	-1.5735 ug/L	-1.5735 ppb	23:04:31
2	Co 228.616†	2573.6	2676.5	39.441 ug/L	39.441 ppb	23:04:31
2	Cr 267.716†	9652.9	9625.9	105.76 ug/L	105.76 ppb	23:04:31
2	Cu 324.752†	25915.0	19233.1	62.440 ug/L	62.440 ppb	23:04:11
2	Mn 257.610†	2266614.6	2280673.3	2347.5 ug/L	2347.5 ppb	23:04:11
2	Mo 202.031†	-89.6	-93.0	4.3306 ug/L	4.3306 ppb	23:04:31
2	Ni 231.604†	3422.7	3361.5	76.347 ug/L	76.347 ppb	23:04:31

2	P 214.914†	1748.8	1525.5	681.66 ug/L	681.66 ppb	23:04:31
2	Pb 220.353†	866.5	943.3	112.54 ug/L	112.54 ppb	23:04:31
2	S 181.975 Axial†	666.9	619.2	730.12 ug/L	730.12 ppb	23:04:31
2	Sb 206.836†	109.7	74.9	5.1129 ug/L	5.1129 ppb	23:04:31
2	Se 196.026†	-744.4	-719.6	23.336 ug/L	23.336 ppb	23:04:31
2	Si 251.611†	677408.1	681267.4	20270 ug/L	20270 ppb	23:04:11
2	Sn 189.927†	-106.8	-125.1	-15.060 ug/L	-15.060 ppb	23:04:31
2	Ti 334.940†	2744898.3	2764214.5	4245.3 ug/L	4245.3 ppb	23:04:11
2	Tl 190.801†	-200.9	-159.0	0.2415 ug/L	0.2415 ppb	23:04:31
2	U 409.014†	-11080.4	-6826.7	-237.10 ug/L	-237.10 ppb	23:04:11
2	V 292.402†	35123.0	37056.4	232.95 ug/L	232.95 ppb	23:04:11
2	Zn 213.857†	39102.8	38608.7	316.66 ug/L	316.66 ppb	23:04:11
2	SiO2†	688995.0	692885.8	44223 ug/L	44223 ppb	23:05:09
3	Sc Radial	3879.5	3879.5	98.0 %		23:03:35
3	Y RADIAL	4682.7	4682.7	103.2 %		23:03:35
3	Al 396.153Radial†	110557.1	113046.3	101560 ug/L	101560 ppb	23:03:15
3	Ca 317.933Radial†	9674.7	9859.1	19547 ug/L	19547 ppb	23:03:15
3	Fe 238.204 Radial†	10917.2	11131.8	132580 ug/L	132580 ppb	23:03:15
3	K 766.490 Radial†	93053.3	91952.9	16024 ug/L	16024 ppb	23:03:15
3	Mg 279.077 IEC†	398.8	403.8	17434 ug/L	17434 ppb	23:03:35
3	Na 589.592 Radial†	4037.3	5706.2	1636.1 ug/L	1636.1 ppb	23:03:15
3	Sr 421.552†	29694.7	30310.3	204.61 ug/L	204.61 ppb	23:03:15
3	Sc 361.383	862586.8	862586.8	99.749 %		23:04:38
3	Y 371.029	752187.0	752187.0	110.28 %		23:04:38
3	Ag 328.068†	-8742.8	-9200.0	3.9514 ug/L	3.9514 ppb	23:04:38
3	As 188.979†	-65.1	-29.8	56.537 ug/L	56.537 ppb	23:04:58
3	B 249.677†	640.3	1248.7	4.8601 ug/L	4.8601 ppb	23:04:38
3	Ba 233.527†	156861.9	157275.3	1189.6 ug/L	1189.6 ppb	23:04:38
3	Be 313.107†	-3930.9	3.3	9.6546 ug/L	9.6546 ppb	23:04:38
3	Cd 226.502†	1027.5	1229.7	-0.8611 ug/L	-0.8611 ppb	23:04:58
3	Co 228.616†	2562.3	2655.1	39.054 ug/L	39.054 ppb	23:04:58
3	Cr 267.716†	9703.6	9639.0	105.86 ug/L	105.86 ppb	23:04:58
3	Cu 324.752†	26012.3	19229.6	62.329 ug/L	62.329 ppb	23:04:38
3	Mn 257.610†	2276221.3	2281467.0	2348.1 ug/L	2348.1 ppb	23:04:38
3	Mo 202.031†	-78.7	-81.7	4.9570 ug/L	4.9570 ppb	23:04:58
3	Ni 231.604†	3381.6	3306.9	75.108 ug/L	75.108 ppb	23:04:58
3	P 214.914†	1764.8	1534.8	687.66 ug/L	687.66 ppb	23:04:58
3	Pb 220.353†	865.5	938.8	112.05 ug/L	112.05 ppb	23:04:58
3	S 181.975 Axial†	688.9	638.7	753.86 ug/L	753.86 ppb	23:04:58
3	Sb 206.836†	105.3	70.0	3.6720 ug/L	3.6720 ppb	23:04:58
3	Se 196.026†	-741.5	-713.9	20.895 ug/L	20.895 ppb	23:04:58
3	Si 251.611†	681406.4	682634.6	20311 ug/L	20311 ppb	23:04:38
3	Sn 189.927†	-101.1	-119.0	-14.123 ug/L	-14.123 ppb	23:04:58
3	Ti 334.940†	2760824.6	2769478.9	4253.4 ug/L	4253.4 ppb	23:04:38
3	Tl 190.801†	-205.9	-163.2	-0.8818 ug/L	-0.8818 ppb	23:04:58
3	U 409.014†	-10859.3	-6561.9	-228.30 ug/L	-228.30 ppb	23:04:38
3	V 292.402†	35394.4	37191.5	234.17 ug/L	234.17 ppb	23:04:38
3	Zn 213.857†	39351.8	38706.0	317.68 ug/L	317.68 ppb	23:04:38
3	SiO2†	679530.3	680710.9	43446 ug/L	43446 ppb	23:05:15

Mean Data: 245136008|944111|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Sc 361.383	858429.7	99.268 %		0.5341			0.54%
Sc Radial	3862.9	97.5 %		0.39			0.40%
Y 371.029	747930.0	109.65 %		0.636			0.58%
Y RADIAL	4674.1	103.0 %		0.28			0.27%
Ag 328.068†	-9124.7	4.5610 ug/L		0.80735	4.5610 ppb	0.80735	17.70%
Al 396.153Radial†	113279.2	101770 ug/L		512.8	101770 ppb	512.8	0.50%
As 188.979†	-36.7	54.098 ug/L		2.2500	54.098 ppb	2.2500	4.16%
B 249.677†	1270.1	5.1850 ug/L		1.28956	5.1850 ppb	1.28956	24.87%
Ba 233.527†	157441.1	1190.9 ug/L		3.03	1190.9 ppb	3.03	0.25%
Be 313.107†	142.2	9.7063 ug/L		0.04485	9.7063 ppb	0.04485	0.46%
Ca 317.933Radial†	9872.9	19574 ug/L		73.4	19574 ppb	73.4	0.38%
Cd 226.502†	1202.7	-1.2241 ug/L		0.35642	-1.2241 ppb	0.35642	29.12%
Co 228.616†	2675.0	39.407 ug/L		0.3374	39.407 ppb	0.3374	0.86%
Cr 267.716†	9665.3	106.16 ug/L		0.606	106.16 ppb	0.606	0.57%
Cu 324.752†	19324.1	62.645 ug/L		0.4546	62.645 ppb	0.4546	0.73%
Fe 238.204 Radial†	11198.0	133370 ug/L		922.4	133370 ppb	922.4	0.69%
K 766.490 Radial†	92158.4	16059 ug/L		73.9	16059 ppb	73.9	0.46%

Mg 279.077 IEC†	401.2	17322 ug/L	131.6	17322 ppb	131.6	0.76%
Mn 257.610†	2284536.5	2351.3 ug/L	6.14	2351.3 ppb	6.14	0.26%
Mo 202.031†	-86.0	4.7301 ug/L	0.34702	4.7301 ppb	0.34702	7.34%
Na 589.592 Radial†	5721.4	1640.5 ug/L	16.13	1640.5 ppb	16.13	0.98%
Ni 231.604†	3345.6	75.986 ug/L	0.7641	75.986 ppb	0.7641	1.01%
P 214.914†	1531.9	685.52 ug/L	3.348	685.52 ppb	3.348	0.49%
Pb 220.353†	938.5	111.98 ug/L	0.593	111.98 ppb	0.593	0.53%
S 181.975 Axial†	631.6	745.22 ug/L	13.117	745.22 ppb	13.117	1.76%
Sb 206.836†	67.7	2.9242 ug/L	2.64315	2.9242 ppb	2.64315	90.39%
Se 196.026†	-721.5	19.204 ug/L	5.1895	19.204 ppb	5.1895	27.02%
Si 251.611†	683260.5	20329 ug/L	70.5	20329 ppb	70.5	0.35%
Sn 189.927†	-114.7	-13.400 ug/L	2.1162	-13.400 ppb	2.1162	15.79%
Sr 421.552†	30345.5	204.85 ug/L	0.843	204.85 ppb	0.843	0.41%
Ti 334.940†	2770717.4	4255.3 ug/L	11.06	4255.3 ppb	11.06	0.26%
Tl 190.801†	-159.9	0.0703 ug/L	0.87907	0.0703 ppb	0.87907	>999.9%
U 409.014†	-6711.9	-233.26 ug/L	4.506	-233.26 ppb	4.506	1.93%
V 292.402†	37140.4	233.68 ug/L	0.647	233.68 ppb	0.647	0.28%
Zn 213.857†	38705.0	317.59 ug/L	0.882	317.59 ppb	0.882	0.28%
SiO2†	687305.7	43867 ug/L	392.6	43867 ppb	392.6	0.89%

Sequence No.: 63

Sample ID: 245136009|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 70

Date Collected: 2/3/2010 23:07:26

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245136009|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3802.7	3802.7	96.0 %		23:09:40
1	Y RADIAL	4605.4	4605.4	101.5 %		23:09:40
1	Al 396.153Radial†	90008.1	93926.8	84380 ug/L	84380 ppb	23:09:20
1	Ca 317.933Radial†	9541.1	9919.5	19667 ug/L	19667 ppb	23:09:20
1	Fe 238.204 Radial†	8004.5	8323.7	99138 ug/L	99138 ppb	23:09:20
1	K 766.490 Radial†	67218.3	66967.9	11668 ug/L	11668 ppb	23:09:20
1	Mg 279.077 IEC†	338.0	348.7	15072 ug/L	15072 ppb	23:09:40
1	Na 589.592 Radial†	1891.2	3554.6	1019.2 ug/L	1019.2 ppb	23:09:20
1	Sr 421.552†	24944.6	25976.0	175.33 ug/L	175.33 ppb	23:09:20
1	Sc 361.383	864251.0	864251.0	99.941 %		23:10:38
1	Y 371.029	753848.0	753848.0	110.52 %		23:10:38
1	Ag 328.068†	-4777.1	-5215.0	10.421 ug/L	10.421 ppb	23:10:38
1	As 188.979†	-64.8	-29.4	43.373 ug/L	43.373 ppb	23:10:58
1	B 249.677†	409.7	1016.8	5.3850 ug/L	5.3850 ppb	23:10:38
1	Ba 233.527†	143232.1	143334.7	1083.4 ug/L	1083.4 ppb	23:10:38
1	Be 313.107†	-6695.5	-2755.4	7.2770 ug/L	7.2770 ppb	23:10:38
1	Cd 226.502†	736.9	937.0	-0.4527 ug/L	-0.4527 ppb	23:10:58
1	Co 228.616†	2169.9	2257.5	33.432 ug/L	33.432 ppb	23:10:58
1	Cr 267.716†	8012.3	7928.0	86.837 ug/L	86.837 ppb	23:10:58
1	Cu 324.752†	33963.9	27135.7	83.226 ug/L	83.226 ppb	23:10:38
1	Mn 257.610†	2356371.1	2357269.9	2422.5 ug/L	2422.5 ppb	23:10:38
1	Mo 202.031†	-58.0	-60.9	3.7805 ug/L	3.7805 ppb	23:10:58
1	Ni 231.604†	3245.4	3164.1	71.868 ug/L	71.868 ppb	23:10:58
1	P 214.914†	2506.5	2273.5	1081.4 ug/L	1081.4 ppb	23:10:58
1	Pb 220.353†	1241.3	1313.2	152.53 ug/L	152.53 ppb	23:10:58
1	S 181.975 Axial†	650.5	599.0	708.98 ug/L	708.98 ppb	23:10:58
1	Sb 206.836†	79.4	43.9	-1.4894 ug/L	-1.4894 ppb	23:10:58
1	Se 196.026†	-556.5	-527.3	19.018 ug/L	19.018 ppb	23:10:58
1	Si 251.611†	759776.8	759735.8	22605 ug/L	22605 ppb	23:10:38
1	Sn 189.927†	-45.9	-63.6	-5.6691 ug/L	-5.6691 ppb	23:10:58
1	Ti 334.940†	2354137.8	2357222.3	3620.6 ug/L	3620.6 ppb	23:10:38
1	Tl 190.801†	-175.8	-132.7	3.1189 ug/L	3.1189 ppb	23:10:58
1	U 409.014†	-9456.6	-5137.4	-178.22 ug/L	-178.22 ppb	23:10:38
1	V 292.402†	25214.4	26937.2	168.60 ug/L	168.60 ppb	23:10:38
1	Zn 213.857†	35933.2	35209.4	291.00 ug/L	291.00 ppb	23:10:38
1	SiO2†	753336.6	753249.0	48076 ug/L	48076 ppb	23:11:58
2	Sc Radial	3833.6	3833.6	96.8 %		23:10:05
2	Y RADIAL	4630.9	4630.9	102.0 %		23:10:05
2	Al 396.153Radial†	89495.4	92642.0	83226 ug/L	83226 ppb	23:09:45
2	Ca 317.933Radial†	9479.6	9775.9	19382 ug/L	19382 ppb	23:09:45
2	Fe 238.204 Radial†	7954.5	8204.9	97723 ug/L	97723 ppb	23:09:45
2	K 766.490 Radial†	66532.9	65695.9	11446 ug/L	11446 ppb	23:09:45
2	Mg 279.077 IEC†	338.8	346.7	14986 ug/L	14986 ppb	23:10:05
2	Na 589.592 Radial†	1899.8	3547.5	1017.2 ug/L	1017.2 ppb	23:09:45
2	Sr 421.552†	24737.9	25553.1	172.48 ug/L	172.48 ppb	23:09:45
2	Sc 361.383	860285.9	860285.9	99.482 %		23:11:05
2	Y 371.029	750618.2	750618.2	110.05 %		23:11:05
2	Ag 328.068†	-4760.8	-5220.7	9.9151 ug/L	9.9151 ppb	23:11:05
2	As 188.979†	-54.9	-19.8	46.701 ug/L	46.701 ppb	23:11:25
2	B 249.677†	378.1	986.9	4.9799 ug/L	4.9799 ppb	23:11:05
2	Ba 233.527†	142422.2	143181.1	1082.2 ug/L	1082.2 ppb	23:11:05
2	Be 313.107†	-6789.4	-2880.6	7.2315 ug/L	7.2315 ppb	23:11:05
2	Cd 226.502†	730.1	933.5	-0.3426 ug/L	-0.3426 ppb	23:11:25
2	Co 228.616†	2154.5	2252.1	33.356 ug/L	33.356 ppb	23:11:25
2	Cr 267.716†	8007.7	7960.3	87.151 ug/L	87.151 ppb	23:11:25
2	Cu 324.752†	33813.8	27141.4	83.166 ug/L	83.166 ppb	23:11:05
2	Mn 257.610†	2342615.7	2354310.0	2419.3 ug/L	2419.3 ppb	23:11:05
2	Mo 202.031†	-33.0	-36.0	5.3623 ug/L	5.3623 ppb	23:11:25
2	Ni 231.604†	3218.3	3151.9	71.589 ug/L	71.589 ppb	23:11:25

2	P 214.914†	2520.1	2298.7	1095.1 ug/L	1095.1 ppb	23:11:25
2	Pb 220.353†	1230.3	1307.9	151.84 ug/L	151.84 ppb	23:11:25
2	S 181.975 Axial†	650.7	602.2	713.11 ug/L	713.11 ppb	23:11:25
2	Sb 206.836†	87.5	52.4	1.2082 ug/L	1.2082 ppb	23:11:25
2	Se 196.026†	-554.8	-528.2	14.186 ug/L	14.186 ppb	23:11:25
2	Si 251.611†	755144.3	758583.2	22570 ug/L	22570 ppb	23:11:05
2	Sn 189.927†	-51.7	-69.6	-6.7114 ug/L	-6.7114 ppb	23:11:25
2	Ti 334.940†	2342528.5	2356409.4	3619.3 ug/L	3619.3 ppb	23:11:05
2	Tl 190.801†	-175.8	-133.5	2.8617 ug/L	2.8617 ppb	23:11:25
2	U 409.014†	-9300.9	-5024.5	-174.39 ug/L	-174.39 ppb	23:11:05
2	V 292.402†	24972.2	26810.0	167.95 ug/L	167.95 ppb	23:11:05
2	Zn 213.857†	35720.7	35161.5	290.73 ug/L	290.73 ppb	23:11:05
2	SiO2†	755004.2	758399.5	48404 ug/L	48404 ppb	23:12:04
3	Sc Radial	3835.7	3835.7	96.9 %		23:10:30
3	Y RADIAL	4656.2	4656.2	102.6 %		23:10:30
3	Al 396.153Radial†	91282.0	94436.1	84837 ug/L	84837 ppb	23:10:10
3	Ca 317.933Radial†	9639.4	9935.5	19698 ug/L	19698 ppb	23:10:10
3	Fe 238.204 Radial†	8067.7	8317.4	99063 ug/L	99063 ppb	23:10:10
3	K 766.490 Radial†	67783.5	66949.5	11664 ug/L	11664 ppb	23:10:10
3	Mg 279.077 IEC†	333.6	341.1	14741 ug/L	14741 ppb	23:10:30
3	Na 589.592 Radial†	1839.3	3484.0	998.99 ug/L	998.99 ppb	23:10:10
3	Sr 421.552†	25145.2	25959.7	175.22 ug/L	175.22 ppb	23:10:10
3	Sc 361.383	859352.3	859352.3	99.375 %		23:11:32
3	Y 371.029	750305.2	750305.2	110.00 %		23:11:32
3	Ag 328.068†	-4919.4	-5385.5	9.6249 ug/L	9.6249 ppb	23:11:32
3	As 188.979†	-58.7	-23.6	45.563 ug/L	45.563 ppb	23:11:53
3	B 249.677†	391.3	1000.6	5.0513 ug/L	5.0513 ppb	23:11:32
3	Ba 233.527†	142163.1	143076.0	1081.4 ug/L	1081.4 ppb	23:11:32
3	Be 313.107†	-6718.4	-2816.6	7.2516 ug/L	7.2516 ppb	23:11:32
3	Cd 226.502†	731.3	935.6	-0.4608 ug/L	-0.4608 ppb	23:11:53
3	Co 228.616†	2182.8	2282.9	33.907 ug/L	33.907 ppb	23:11:53
3	Cr 267.716†	8027.9	7989.4	87.492 ug/L	87.492 ppb	23:11:53
3	Cu 324.752†	33688.9	27052.7	82.986 ug/L	82.986 ppb	23:11:32
3	Mn 257.610†	2337943.7	2352166.9	2417.3 ug/L	2417.3 ppb	23:11:32
3	Mo 202.031†	-55.9	-59.1	3.8987 ug/L	3.8987 ppb	23:11:53
3	Ni 231.604†	3209.7	3146.7	71.471 ug/L	71.471 ppb	23:11:53
3	P 214.914†	2501.7	2283.0	1086.4 ug/L	1086.4 ppb	23:11:53
3	Pb 220.353†	1243.4	1322.4	153.64 ug/L	153.64 ppb	23:11:53
3	S 181.975 Axial†	646.4	598.5	708.36 ug/L	708.36 ppb	23:11:53
3	Sb 206.836†	70.2	35.1	-4.2316 ug/L	-4.2316 ppb	23:11:53
3	Se 196.026†	-559.1	-533.1	15.639 ug/L	15.639 ppb	23:11:53
3	Si 251.611†	754349.4	758607.9	22571 ug/L	22571 ppb	23:11:32
3	Sn 189.927†	-65.1	-83.1	-8.8368 ug/L	-8.8368 ppb	23:11:53
3	Ti 334.940†	2339515.8	2355935.9	3618.7 ug/L	3618.7 ppb	23:11:32
3	Tl 190.801†	-183.2	-141.2	0.6396 ug/L	0.6396 ppb	23:11:53
3	U 409.014†	-9507.7	-5242.7	-181.63 ug/L	-181.63 ppb	23:11:32
3	V 292.402†	25104.4	26970.3	168.83 ug/L	168.83 ppb	23:11:32
3	Zn 213.857†	35664.1	35143.5	290.45 ug/L	290.45 ppb	23:11:32
3	SiO2†	761409.5	765669.6	48868 ug/L	48868 ppb	23:12:09

Mean Data: 245136009|944111|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Sc 361.383	861296.4	99.599 %		0.3008			0.30%
Sc Radial	3824.0	96.6 %		0.47			0.48%
Y 371.029	751590.5	110.19 %		0.288			0.26%
Y RADIAL	4630.8	102.0 %		0.56			0.55%
Ag 328.068†	-5273.7	9.9870 ug/L		0.40294	9.9870 ppb	0.40294	4.03%
Al 396.153Radial†	93668.3	84148 ug/L		830.6	84148 ppb	830.6	0.99%
As 188.979†	-24.2	45.212 ug/L		1.6913	45.212 ppb	1.6913	3.74%
B 249.677†	1001.4	5.1387 ug/L		0.21620	5.1387 ppb	0.21620	4.21%
Ba 233.527†	143197.3	1082.3 ug/L		0.98	1082.3 ppb	0.98	0.09%
Be 313.107†	-2817.6	7.2533 ug/L		0.02281	7.2533 ppb	0.02281	0.31%
Ca 317.933Radial†	9877.0	19582 ug/L		174.2	19582 ppb	174.2	0.89%
Cd 226.502†	935.3	-0.4187 ug/L		0.06604	-0.4187 ppb	0.06604	15.77%
Co 228.616†	2264.2	33.565 ug/L		0.2989	33.565 ppb	0.2989	0.89%
Cr 267.716†	7959.2	87.160 ug/L		0.3280	87.160 ppb	0.3280	0.38%
Cu 324.752†	27109.9	83.126 ug/L		0.1250	83.126 ppb	0.1250	0.15%
Fe 238.204 Radial†	8282.0	98641 ug/L		796.1	98641 ppb	796.1	0.81%
K 766.490 Radial†	66537.7	11593 ug/L		127.1	11593 ppb	127.1	1.10%

Mg 279.077 IEC†	345.5	14933 ug/L	172.0	14933 ppb	172.0	1.15%
Mn 257.610†	2354582.3	2419.7 ug/L	2.63	2419.7 ppb	2.63	0.11%
Mo 202.031†	-52.0	4.3472 ug/L	0.88110	4.3472 ppb	0.88110	20.27%
Na 589.592 Radial†	3528.7	1011.8 ug/L	11.14	1011.8 ppb	11.14	1.10%
Ni 231.604†	3154.2	71.643 ug/L	0.2038	71.643 ppb	0.2038	0.28%
P 214.914†	2285.1	1087.6 ug/L	6.92	1087.6 ppb	6.92	0.64%
Pb 220.353†	1314.5	152.67 ug/L	0.910	152.67 ppb	0.910	0.60%
S 181.975 Axial†	599.9	710.15 ug/L	2.583	710.15 ppb	2.583	0.36%
Sb 206.836†	43.8	-1.5043 ug/L	2.71993	-1.5043 ppb	2.71993	180.81%
Se 196.026†	-529.5	16.281 ug/L	2.4787	16.281 ppb	2.4787	15.22%
Si 251.611†	758975.6	22582 ug/L	19.6	22582 ppb	19.6	0.09%
Sn 189.927†	-72.1	-7.0724 ug/L	1.61445	-7.0724 ppb	1.61445	22.83%
Sr 421.552†	25829.6	174.35 ug/L	1.617	174.35 ppb	1.617	0.93%
Ti 334.940†	2356522.5	3619.5 ug/L	0.99	3619.5 ppb	0.99	0.03%
Tl 190.801†	-135.8	2.2067 ug/L	1.36328	2.2067 ppb	1.36328	61.78%
U 409.014†	-5134.9	-178.08 ug/L	3.619	-178.08 ppb	3.619	2.03%
V 292.402†	26905.8	168.46 ug/L	0.455	168.46 ppb	0.455	0.27%
Zn 213.857†	35171.4	290.73 ug/L	0.277	290.73 ppb	0.277	0.10%
SiO2†	759106.0	48450 ug/L	398.3	48450 ppb	398.3	0.82%

Sequence No.: 64

Sample ID: 245136010|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 71

Date Collected: 2/3/2010 23:14:21

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245136010|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3884.6	3884.6	98.1 %		23:16:34
1	Y RADIAL	4692.1	4692.1	103.4 %		23:16:34
1	Al 396.153Radial†	126939.8	129597.7	116430 ug/L	116430 ppb	23:16:14
1	Ca 317.933Radial†	12593.2	12821.2	25420 ug/L	25420 ppb	23:16:14
1	Fe 238.204 Radial†	11481.2	11692.1	139260 ug/L	139260 ppb	23:16:14
1	K 766.490 Radial†	90349.2	89070.9	15519 ug/L	15519 ppb	23:16:14
1	Mg 279.077 IEC†	473.0	478.9	20694 ug/L	20694 ppb	23:16:34
1	Na 589.592 Radial†	1596.7	3212.8	921.21 ug/L	921.21 ppb	23:16:14
1	Sr 421.552†	35212.1	35894.7	242.30 ug/L	242.30 ppb	23:16:14
1	Sc 361.383	847719.1	847719.1	98.029 %		23:17:37
1	Y 371.029	740289.4	740289.4	108.53 %		23:17:37
1	Ag 328.068†	-8624.0	-9232.5	6.1045 ug/L	6.1045 ppb	23:17:37
1	As 188.979†	-66.3	-32.2	67.534 ug/L	67.534 ppb	23:17:57
1	B 249.677†	1104.6	1733.6	14.047 ug/L	14.047 ppb	23:17:37
1	Ba 233.527†	193698.7	197610.8	1493.8 ug/L	1493.8 ppb	23:17:37
1	Be 313.107†	-11301.7	-7584.8	9.7733 ug/L	9.7733 ppb	23:17:37
1	Cd 226.502†	1104.1	1325.9	-0.5347 ug/L	-0.5347 ppb	23:17:57
1	Co 228.616†	3113.8	3262.8	47.899 ug/L	47.899 ppb	23:17:57
1	Cr 267.716†	10337.6	10456.4	114.75 ug/L	114.75 ppb	23:17:57
1	Cu 324.752†	36363.3	30246.0	94.282 ug/L	94.282 ppb	23:17:37
1	Mn 257.610†	3079246.8	3140658.2	3228.2 ug/L	3228.2 ppb	23:17:32
1	Mo 202.031†	-84.3	-88.8	5.0608 ug/L	5.0608 ppb	23:17:57
1	Ni 231.604†	3655.9	3646.2	82.810 ug/L	82.810 ppb	23:17:57
1	P 214.914†	2723.8	2544.1	1192.8 ug/L	1192.8 ppb	23:17:57
1	Pb 220.353†	2493.4	2614.7	298.02 ug/L	298.02 ppb	23:17:57
1	S 181.975 Axial†	970.0	937.5	1112.6 ug/L	1112.6 ppb	23:17:57
1	Sb 206.836†	117.9	84.7	3.8525 ug/L	3.8525 ppb	23:17:57
1	Se 196.026†	-759.5	-745.3	24.273 ug/L	24.273 ppb	23:17:57
1	Si 251.611†	582378.6	593596.9	17662 ug/L	17662 ppb	23:17:37
1	Sn 189.927†	-115.0	-134.9	-15.701 ug/L	-15.701 ppb	23:17:57
1	Ti 334.940†	3474255.3	3545794.9	5445.8 ug/L	5445.8 ppb	23:17:32
1	Tl 190.801†	-247.0	-208.7	0.0702 ug/L	0.0702 ppb	23:17:57
1	U 409.014†	-9559.0	-5426.4	-192.23 ug/L	-192.23 ppb	23:17:37
1	V 292.402†	40299.7	42817.7	271.11 ug/L	271.11 ppb	23:17:37
1	Zn 213.857†	41555.2	41645.5	342.08 ug/L	342.08 ppb	23:17:37
1	SiO2†	588732.8	600036.0	38297 ug/L	38297 ppb	23:19:06
2	Sc Radial	3912.3	3912.3	98.8 %		23:16:59
2	Y RADIAL	4715.8	4715.8	103.9 %		23:16:59
2	Al 396.153Radial†	124594.5	126308.8	113470 ug/L	113470 ppb	23:16:39
2	Ca 317.933Radial†	12381.1	12515.7	24814 ug/L	24814 ppb	23:16:39
2	Fe 238.204 Radial†	11268.6	11394.1	135710 ug/L	135710 ppb	23:16:39
2	K 766.490 Radial†	88950.0	87003.4	15159 ug/L	15159 ppb	23:16:39
2	Mg 279.077 IEC†	470.3	472.7	20430 ug/L	20430 ppb	23:16:59
2	Na 589.592 Radial†	1440.6	3043.3	872.60 ug/L	872.60 ppb	23:16:39
2	Sr 421.552†	34496.3	34916.3	235.69 ug/L	235.69 ppb	23:16:39
2	Sc 361.383	838817.0	838817.0	97.000 %		23:18:08
2	Y 371.029	732077.0	732077.0	107.33 %		23:18:08
2	Ag 328.068†	-8629.6	-9331.7	4.4585 ug/L	4.4585 ppb	23:18:08
2	As 188.979†	-69.9	-36.6	65.724 ug/L	65.724 ppb	23:18:28
2	B 249.677†	1037.7	1676.6	13.412 ug/L	13.412 ppb	23:18:08
2	Ba 233.527†	191559.6	197502.5	1492.9 ug/L	1492.9 ppb	23:18:08
2	Be 313.107†	-11134.5	-7534.8	9.9794 ug/L	9.9794 ppb	23:18:08
2	Cd 226.502†	1102.2	1335.9	-0.0620 ug/L	-0.0620 ppb	23:18:28
2	Co 228.616†	3087.0	3268.9	47.889 ug/L	47.889 ppb	23:18:28
2	Cr 267.716†	10257.0	10485.2	114.99 ug/L	114.99 ppb	23:18:28
2	Cu 324.752†	35914.6	30177.2	93.892 ug/L	93.892 ppb	23:18:08
2	Mn 257.610†	3090435.0	3185528.7	3273.8 ug/L	3273.8 ppb	23:18:03
2	Mo 202.031†	-82.8	-88.2	4.8226 ug/L	4.8226 ppb	23:18:28
2	Ni 231.604†	3632.7	3661.9	83.166 ug/L	83.166 ppb	23:18:28

2	P 214.914†	2690.7	2539.5	1192.6 ug/L	1192.6 ppb	23:18:28
2	Pb 220.353†	2475.4	2623.1	298.64 ug/L	298.64 ppb	23:18:28
2	S 181.975 Axial†	955.5	933.1	1107.8 ug/L	1107.8 ppb	23:18:28
2	Sb 206.836†	92.5	59.9	-3.9533 ug/L	-3.9533 ppb	23:18:28
2	Se 196.026†	-763.8	-757.9	6.5294 ug/L	6.5294 ppb	23:18:28
2	Si 251.611†	576458.2	593798.3	17668 ug/L	17668 ppb	23:18:08
2	Sn 189.927†	-111.3	-132.4	-15.447 ug/L	-15.447 ppb	23:18:28
2	Ti 334.940†	3490394.5	3600045.8	5529.0 ug/L	5529.0 ppb	23:18:03
2	Tl 190.801†	-226.3	-190.1	6.3109 ug/L	6.3109 ppb	23:18:28
2	U 409.014†	-9195.1	-5154.7	-183.01 ug/L	-183.01 ppb	23:18:08
2	V 292.402†	39923.3	42866.0	271.89 ug/L	271.89 ppb	23:18:08
2	Zn 213.857†	41003.0	41526.1	341.40 ug/L	341.40 ppb	23:18:08
2	SiO2†	590795.3	608535.9	38840 ug/L	38840 ppb	23:19:11
3	Sc Radial	3918.9	3918.9	99.0 %		23:17:24
3	Y RADIAL	4738.0	4738.0	104.4 %		23:17:24
3	Al 396.153Radial†	126908.5	128435.1	115380 ug/L	115380 ppb	23:17:04
3	Ca 317.933Radial†	12641.5	12757.8	25294 ug/L	25294 ppb	23:17:04
3	Fe 238.204 Radial†	11435.5	11543.6	137490 ug/L	137490 ppb	23:17:04
3	K 766.490 Radial†	90533.9	88452.6	15411 ug/L	15411 ppb	23:17:04
3	Mg 279.077 IEC†	479.5	481.2	20799 ug/L	20799 ppb	23:17:24
3	Na 589.592 Radial†	1552.4	3153.8	904.30 ug/L	904.30 ppb	23:17:04
3	Sr 421.552†	35106.0	35473.6	239.45 ug/L	239.45 ppb	23:17:04
3	Sc 361.383	843993.4	843993.4	97.598 %		23:18:40
3	Y 371.029	736596.8	736596.8	107.99 %		23:18:40
3	Ag 328.068†	-8797.3	-9448.9	4.5214 ug/L	4.5214 ppb	23:18:40
3	As 188.979†	-58.9	-24.9	70.238 ug/L	70.238 ppb	23:19:00
3	B 249.677†	1002.7	1634.2	12.221 ug/L	12.221 ppb	23:18:40
3	Ba 233.527†	192734.1	197494.7	1492.9 ug/L	1492.9 ppb	23:18:40
3	Be 313.107†	-11335.1	-7670.0	9.8366 ug/L	9.8366 ppb	23:18:40
3	Cd 226.502†	1100.5	1327.2	-0.3366 ug/L	-0.3366 ppb	23:19:00
3	Co 228.616†	3107.6	3270.5	47.980 ug/L	47.980 ppb	23:19:00
3	Cr 267.716†	10342.1	10507.6	115.26 ug/L	115.26 ppb	23:19:00
3	Cu 324.752†	36300.3	30345.3	94.469 ug/L	94.469 ppb	23:18:40
3	Mn 257.610†	3082354.1	3157708.1	3245.5 ug/L	3245.5 ppb	23:18:35
3	Mo 202.031†	-98.4	-103.6	3.9128 ug/L	3.9128 ppb	23:19:00
3	Ni 231.604†	3665.9	3672.9	83.416 ug/L	83.416 ppb	23:19:00
3	P 214.914†	2714.0	2546.3	1195.0 ug/L	1195.0 ppb	23:19:00
3	Pb 220.353†	2482.0	2614.2	297.91 ug/L	297.91 ppb	23:19:00
3	S 181.975 Axial†	957.1	928.7	1102.2 ug/L	1102.2 ppb	23:19:00
3	Sb 206.836†	106.7	73.8	0.3845 ug/L	0.3845 ppb	23:19:00
3	Se 196.026†	-752.2	-741.2	21.011 ug/L	21.011 ppb	23:19:00
3	Si 251.611†	579686.1	593460.7	17658 ug/L	17658 ppb	23:18:40
3	Sn 189.927†	-114.3	-134.7	-15.716 ug/L	-15.716 ppb	23:19:00
3	Ti 334.940†	3484857.3	3572302.6	5486.5 ug/L	5486.5 ppb	23:18:35
3	Tl 190.801†	-248.5	-211.4	-0.2866 ug/L	-0.2866 ppb	23:19:00
3	U 409.014†	-9257.1	-5160.1	-183.39 ug/L	-183.39 ppb	23:18:40
3	V 292.402†	40177.3	42873.8	271.72 ug/L	271.72 ppb	23:18:40
3	Zn 213.857†	41305.4	41576.8	341.66 ug/L	341.66 ppb	23:18:40
3	SiO2†	591750.5	605779.1	38664 ug/L	38664 ppb	23:19:17

Mean Data: 245136010|944111|1

Analyte	Mean Corrected	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	843509.8	97.543 %		0.5170				0.53%
Sc Radial	3905.3	98.6 %		0.46				0.47%
Y 371.029	736321.1	107.95 %		0.603				0.56%
Y RADIAL	4715.3	103.9 %		0.51				0.49%
Ag 328.068†	-9337.7	5.0281 ug/L		0.93270	5.0281 ppb		0.93270	18.55%
Al 396.153Radial†	128113.9	115090 ug/L		1498.3	115090 ppb		1498.3	1.30%
As 188.979†	-31.2	67.832 ug/L		2.2719	67.832 ppb		2.2719	3.35%
B 249.677†	1681.5	13.227 ug/L		0.9272	13.227 ppb		0.9272	7.01%
Ba 233.527†	197536.0	1493.2 ug/L		0.53	1493.2 ppb		0.53	0.04%
Be 313.107†	-7596.5	9.8631 ug/L		0.10559	9.8631 ppb		0.10559	1.07%
Ca 317.933Radial†	12698.2	25176 ug/L		319.6	25176 ppb		319.6	1.27%
Cd 226.502†	1329.6	-0.3111 ug/L		0.23741	-0.3111 ppb		0.23741	76.31%
Co 228.616†	3267.4	47.923 ug/L		0.0500	47.923 ppb		0.0500	0.10%
Cr 267.716†	10483.1	115.00 ug/L		0.254	115.00 ppb		0.254	0.22%
Cu 324.752†	30256.1	94.214 ug/L		0.2944	94.214 ppb		0.2944	0.31%
Fe 238.204 Radial†	11543.3	137480 ug/L		1774.6	137480 ppb		1774.6	1.29%
K 766.490 Radial†	88175.6	15363 ug/L		184.9	15363 ppb		184.9	1.20%

Mg 279.077 IEC†	477.6	20641 ug/L	190.4	20641 ppb	190.4	0.92%
Mn 257.610†	3161298.3	3249.2 ug/L	23.02	3249.2 ppb	23.02	0.71%
Mo 202.031†	-93.5	4.5987 ug/L	0.60587	4.5987 ppb	0.60587	13.17%
Na 589.592 Radial†	3136.6	899.37 ug/L	24.674	899.37 ppb	24.674	2.74%
Ni 231.604†	3660.3	83.131 ug/L	0.3046	83.131 ppb	0.3046	0.37%
P 214.914†	2543.3	1193.5 ug/L	1.35	1193.5 ppb	1.35	0.11%
Pb 220.353†	2617.4	298.19 ug/L	0.393	298.19 ppb	0.393	0.13%
S 181.975 Axial†	933.1	1107.5 ug/L	5.25	1107.5 ppb	5.25	0.47%
Sb 206.836†	72.8	0.0945 ug/L	3.91096	0.0945 ppb	3.91096	>999.9%
Se 196.026†	-748.1	17.271 ug/L	9.4443	17.271 ppb	9.4443	54.68%
Si 251.611†	593618.7	17662 ug/L	5.0	17662 ppb	5.0	0.03%
Sn 189.927†	-134.0	-15.621 ug/L	0.1512	-15.621 ppb	0.1512	0.97%
Sr 421.552†	35428.2	239.15 ug/L	3.313	239.15 ppb	3.313	1.39%
Ti 334.940†	3572714.4	5487.1 ug/L	41.62	5487.1 ppb	41.62	0.76%
Tl 190.801†	-203.4	2.0315 ug/L	3.71038	2.0315 ppb	3.71038	182.64%
U 409.014†	-5247.1	-186.21 ug/L	5.219	-186.21 ppb	5.219	2.80%
V 292.402†	42852.5	271.58 ug/L	0.408	271.58 ppb	0.408	0.15%
Zn 213.857†	41582.8	341.72 ug/L	0.343	341.72 ppb	0.343	0.10%
SiO2†	604783.7	38600 ug/L	276.8	38600 ppb	276.8	0.72%

Sequence No.: 65

Sample ID: 245136011|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 72

Date Collected: 2/3/2010 23:21:28

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245136011|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3895.9	3895.9	98.4 %			23:23:41
1	Y RADIAL	4601.5	4601.5	101.4 %			23:23:41
1	Al 396.153Radial†	80860.3	82385.6	74012 ug/L		74012 ppb	23:23:21
1	Ca 317.933Radial†	13458.4	13663.4	27090 ug/L		27090 ppb	23:23:21
1	Fe 238.204 Radial†	7620.0	7733.5	92108 ug/L		92108 ppb	23:23:21
1	K 766.490 Radial†	69504.9	67616.9	11778 ug/L		11778 ppb	23:23:21
1	Mg 279.077 IEC†	317.3	319.2	13797 ug/L		13797 ppb	23:23:41
1	Na 589.592 Radial†	489.8	2082.9	597.25 ug/L		597.25 ppb	23:23:21
1	Sr 421.552†	30406.6	30906.1	208.58 ug/L		208.58 ppb	23:23:21
1	Sc 361.383	811062.0	811062.0	93.790 %			23:24:39
1	Y 371.029	698496.4	698496.4	102.41 %			23:24:39
1	Ag 328.068†	-5753.8	-6569.9	1.7379 ug/L		1.7379 ppb	23:24:39
1	As 188.979†	-69.2	-38.3	40.201 ug/L		40.201 ppb	23:25:00
1	B 249.677†	837.5	1499.7	16.776 ug/L		16.776 ppb	23:24:39
1	Ba 233.527†	144820.2	154426.6	1166.7 ug/L		1166.7 ppb	23:24:39
1	Be 313.107†	-8361.6	-4971.2	7.0182 ug/L		7.0182 ppb	23:24:39
1	Cd 226.502†	674.0	918.2	0.0991 ug/L		0.0991 ppb	23:25:00
1	Co 228.616†	2246.6	2481.7	37.253 ug/L		37.253 ppb	23:25:00
1	Cr 267.716†	15069.9	15978.6	172.57 ug/L		172.57 ppb	23:25:00
1	Cu 324.752†	30630.8	25810.5	79.050 ug/L		79.050 ppb	23:24:39
1	Mn 257.610†	2349642.7	2504716.9	2572.8 ug/L		2572.8 ppb	23:24:39
1	Mo 202.031†	-7.1	-10.4	6.7621 ug/L		6.7621 ppb	23:25:00
1	Ni 231.604†	4436.7	4647.2	105.56 ug/L		105.56 ppb	23:25:00
1	P 214.914†	2763.7	2712.2	1308.1 ug/L		1308.1 ppb	23:25:00
1	Pb 220.353†	892.6	1022.9	119.37 ug/L		119.37 ppb	23:25:00
1	S 181.975 Axial†	743.6	740.9	882.69 ug/L		882.69 ppb	23:25:00
1	Sb 206.836†	80.8	50.6	-0.0014 ug/L		-0.0014 ppb	23:25:00
1	Se 196.026†	-513.7	-518.2	2.3990 ug/L		2.3990 ppb	23:25:00
1	Si 251.611†	784803.4	836274.6	24882 ug/L		24882 ppb	23:24:39
1	Sn 189.927†	-146.4	-173.7	-22.537 ug/L		-22.537 ppb	23:25:00
1	Ti 334.940†	2342907.8	2499723.2	3840.5 ug/L		3840.5 ppb	23:24:39
1	Tl 190.801†	-183.8	-152.7	-0.0696 ug/L		-0.0696 ppb	23:25:00
1	U 409.014†	-8869.0	-5131.5	-177.42 ug/L		-177.42 ppb	23:24:39
1	V 292.402†	21685.3	24828.9	154.75 ug/L		154.75 ppb	23:25:00
1	Zn 213.857†	31590.4	32936.8	272.04 ug/L		272.04 ppb	23:24:39
1	SiO2†	777077.3	827994.1	52846 ug/L		52846 ppb	23:26:00
2	Sc Radial	3881.2	3881.2	98.0 %			23:24:06
2	Y RADIAL	4592.4	4592.4	101.2 %			23:24:06
2	Al 396.153Radial†	82371.3	84238.5	75676 ug/L		75676 ppb	23:23:46
2	Ca 317.933Radial†	13686.2	13947.7	27653 ug/L		27653 ppb	23:23:46
2	Fe 238.204 Radial†	7771.7	7917.6	94301 ug/L		94301 ppb	23:23:46
2	K 766.490 Radial†	70649.4	69052.2	12029 ug/L		12029 ppb	23:23:46
2	Mg 279.077 IEC†	317.4	320.6	13851 ug/L		13851 ppb	23:24:06
2	Na 589.592 Radial†	452.9	2047.2	587.01 ug/L		587.01 ppb	23:23:46
2	Sr 421.552†	30984.7	31612.9	213.35 ug/L		213.35 ppb	23:23:46
2	Sc 361.383	857844.4	857844.4	99.200 %			23:25:06
2	Y 371.029	733766.6	733766.6	107.58 %			23:25:06
2	Ag 328.068†	-5780.6	-6262.3	3.8174 ug/L		3.8174 ppb	23:25:06
2	As 188.979†	-60.9	-25.9	43.468 ug/L		43.468 ppb	23:25:26
2	B 249.677†	890.3	1504.3	16.524 ug/L		16.524 ppb	23:25:06
2	Ba 233.527†	143874.9	145053.0	1096.1 ug/L		1096.1 ppb	23:25:06
2	Be 313.107†	-8521.8	-4646.4	6.6085 ug/L		6.6085 ppb	23:25:06
2	Cd 226.502†	678.7	883.8	-0.4861 ug/L		-0.4861 ppb	23:25:26
2	Co 228.616†	2244.7	2349.2	35.209 ug/L		35.209 ppb	23:25:26
2	Cr 267.716†	15059.4	15091.7	163.13 ug/L		163.13 ppb	23:25:26
2	Cu 324.752†	30640.5	24039.2	74.072 ug/L		74.072 ppb	23:25:06
2	Mn 257.610†	2336116.4	2354460.4	2419.2 ug/L		2419.2 ppb	23:25:06
2	Mo 202.031†	3.3	0.5	7.6840 ug/L		7.6840 ppb	23:25:26
2	Ni 231.604†	4443.0	4395.6	99.847 ug/L		99.847 ppb	23:25:26

2	P 214.914†	2765.7	2553.5	1227.1 ug/L	1227.1 ppb	23:25:26
2	Pb 220.353†	870.9	949.1	111.46 ug/L	111.46 ppb	23:25:26
2	S 181.975 Axial†	732.8	686.8	816.88 ug/L	816.88 ppb	23:25:26
2	Sb 206.836†	104.8	70.1	6.7171 ug/L	6.7171 ppb	23:25:26
2	Se 196.026†	-536.2	-511.0	13.068 ug/L	13.068 ppb	23:25:26
2	Si 251.611†	784258.8	790092.8	23508 ug/L	23508 ppb	23:25:06
2	Sn 189.927†	-137.1	-155.9	-19.518 ug/L	-19.518 ppb	23:25:26
2	Ti 334.940†	2329936.3	2350417.5	3611.3 ug/L	3611.3 ppb	23:25:06
2	Tl 190.801†	-174.9	-133.1	2.9341 ug/L	2.9341 ppb	23:25:26
2	U 409.014†	-8805.9	-4552.1	-158.84 ug/L	-158.84 ppb	23:25:06
2	V 292.402†	21740.3	23623.5	146.36 ug/L	146.36 ppb	23:25:26
2	Zn 213.857†	31418.4	30926.6	254.67 ug/L	254.67 ppb	23:25:06
2	SiO2†	785971.4	791776.4	50535 ug/L	50535 ppb	23:26:06
3	Sc Radial	4068.5	4068.5	103 %		23:24:31
3	Y RADIAL	4792.3	4792.3	105.6 %		23:24:31
3	Al 396.153Radial†	80761.9	78803.0	70793 ug/L	70793 ppb	23:24:11
3	Ca 317.933Radial†	13457.0	13081.7	25936 ug/L	25936 ppb	23:24:11
3	Fe 238.204 Radial†	7659.1	7442.9	88648 ug/L	88648 ppb	23:24:11
3	K 766.490 Radial†	69477.3	64593.0	11252 ug/L	11252 ppb	23:24:11
3	Mg 279.077 IEC†	308.7	297.1	12838 ug/L	12838 ppb	23:24:31
3	Na 589.592 Radial†	408.7	1982.9	568.58 ug/L	568.58 ppb	23:24:11
3	Sr 421.552†	30259.2	29451.5	198.77 ug/L	198.77 ppb	23:24:11
3	Sc 361.383	854088.9	854088.9	98.766 %		23:25:33
3	Y 371.029	731365.8	731365.8	107.22 %		23:25:33
3	Ag 328.068†	-5720.1	-6226.7	2.0965 ug/L	2.0965 ppb	23:25:33
3	As 188.979†	-57.8	-23.0	42.941 ug/L	42.941 ppb	23:25:53
3	B 249.677†	832.6	1449.8	16.281 ug/L	16.281 ppb	23:25:33
3	Ba 233.527†	141829.0	143619.3	1085.2 ug/L	1085.2 ppb	23:25:33
3	Be 313.107†	-8452.2	-4613.8	6.5389 ug/L	6.5389 ppb	23:25:33
3	Cd 226.502†	673.2	881.2	0.0712 ug/L	0.0712 ppb	23:25:53
3	Co 228.616†	2277.4	2392.3	36.159 ug/L	36.159 ppb	23:25:53
3	Cr 267.716†	15124.6	15224.5	164.44 ug/L	164.44 ppb	23:25:53
3	Cu 324.752†	30290.2	23820.4	73.143 ug/L	73.143 ppb	23:25:33
3	Mn 257.610†	2301705.2	2329974.1	2393.6 ug/L	2393.6 ppb	23:25:33
3	Mo 202.031†	-9.2	-12.2	6.3622 ug/L	6.3622 ppb	23:25:53
3	Ni 231.604†	4444.0	4416.3	100.32 ug/L	100.32 ppb	23:25:53
3	P 214.914†	2750.9	2550.8	1229.2 ug/L	1229.2 ppb	23:25:53
3	Pb 220.353†	853.3	935.1	109.40 ug/L	109.40 ppb	23:25:53
3	S 181.975 Axial†	741.8	699.1	832.68 ug/L	832.68 ppb	23:25:53
3	Sb 206.836†	81.7	47.2	0.0140 ug/L	0.0140 ppb	23:25:53
3	Se 196.026†	-509.4	-486.2	9.1181 ug/L	9.1181 ppb	23:25:53
3	Si 251.611†	772397.9	781560.0	23254 ug/L	23254 ppb	23:25:33
3	Sn 189.927†	-119.4	-138.5	-17.055 ug/L	-17.055 ppb	23:25:53
3	Ti 334.940†	2296862.9	2327258.4	3575.6 ug/L	3575.6 ppb	23:25:33
3	Tl 190.801†	-182.8	-141.9	0.0061 ug/L	0.0061 ppb	23:25:53
3	U 409.014†	-8683.1	-4466.9	-155.43 ug/L	-155.43 ppb	23:25:33
3	V 292.402†	21817.9	23798.3	148.40 ug/L	148.40 ppb	23:25:53
3	Zn 213.857†	30941.6	30583.1	252.28 ug/L	252.28 ppb	23:25:33
3	SiO2†	772647.3	781769.6	49896 ug/L	49896 ppb	23:26:12

Mean Data: 245136011|944111|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	840998.4	97.252 %		3.0059			3.09%
Sc Radial	3948.6	99.7 %		2.63			2.64%
Y 371.029	721209.6	105.73 %		2.889			2.73%
Y RADIAL	4662.1	102.7 %		2.49			2.42%
Ag 328.068†	-6353.0	2.5506 ug/L		1.11164	2.5506 ppb	1.11164	43.58%
Al 396.153Radial†	81809.0	73494 ug/L		2482.4	73494 ppb	2482.4	3.38%
As 188.979†	-29.1	42.203 ug/L		1.7539	42.203 ppb	1.7539	4.16%
B 249.677†	1484.6	16.527 ug/L		0.2473	16.527 ppb	0.2473	1.50%
Ba 233.527†	147699.6	1116.0 ug/L		44.26	1116.0 ppb	44.26	3.97%
Be 313.107†	-4743.8	6.7219 ug/L		0.25897	6.7219 ppb	0.25897	3.85%
Ca 317.933Radial†	13564.3	26893 ug/L		875.2	26893 ppb	875.2	3.25%
Cd 226.502†	894.4	-0.1053 ug/L		0.33007	-0.1053 ppb	0.33007	313.55%
Co 228.616†	2407.7	36.207 ug/L		1.0226	36.207 ppb	1.0226	2.82%
Cr 267.716†	15431.6	166.71 ug/L		5.114	166.71 ppb	5.114	3.07%
Cu 324.752†	24556.7	75.422 ug/L		3.1766	75.422 ppb	3.1766	4.21%
Fe 238.204 Radial†	7698.0	91686 ug/L		2850.2	91686 ppb	2850.2	3.11%
K 766.490 Radial†	67087.4	11686 ug/L		396.6	11686 ppb	396.6	3.39%

Mg 279.077 IEC†	312.3	13495 ug/L	570.1	13495 ppb	570.1	4.22%
Mn 257.610†	2396383.8	2461.9 ug/L	96.92	2461.9 ppb	96.92	3.94%
Mo 202.031†	-7.4	6.9361 ug/L	0.67787	6.9361 ppb	0.67787	9.77%
Na 589.592 Radial†	2037.7	584.28 ug/L	14.528	584.28 ppb	14.528	2.49%
Ni 231.604†	4486.4	101.91 ug/L	3.173	101.91 ppb	3.173	3.11%
P 214.914†	2605.5	1254.8 ug/L	46.17	1254.8 ppb	46.17	3.68%
Pb 220.353†	969.0	113.41 ug/L	5.265	113.41 ppb	5.265	4.64%
S 181.975 Axial†	708.9	844.08 ug/L	34.355	844.08 ppb	34.355	4.07%
Sb 206.836†	56.0	2.2432 ug/L	3.87448	2.2432 ppb	3.87448	172.72%
Se 196.026†	-505.1	8.1950 ug/L	5.39397	8.1950 ppb	5.39397	65.82%
Si 251.611†	802642.5	23881 ug/L	875.9	23881 ppb	875.9	3.67%
Sn 189.927†	-156.0	-19.703 ug/L	2.7453	-19.703 ppb	2.7453	13.93%
Sr 421.552†	30656.9	206.90 ug/L	7.438	206.90 ppb	7.438	3.60%
Ti 334.940†	2392466.4	3675.8 ug/L	143.73	3675.8 ppb	143.73	3.91%
Tl 190.801†	-142.6	0.9569 ug/L	1.71273	0.9569 ppb	1.71273	178.99%
U 409.014†	-4716.8	-163.90 ug/L	11.831	-163.90 ppb	11.831	7.22%
V 292.402†	24083.6	149.84 ug/L	4.376	149.84 ppb	4.376	2.92%
Zn 213.857†	31482.2	259.66 ug/L	10.783	259.66 ppb	10.783	4.15%
SiO2†	800513.4	51092 ug/L	1552.2	51092 ppb	1552.2	3.04%

Sequence No.: 66

Sample ID: 245136012|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 73

Date Collected: 2/3/2010 23:28:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245136012|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3802.6	3802.6	96.0 %		23:30:37
1	Y RADIAL	4497.4	4497.4	99.10 %		23:30:17
1	Al 396.153Radial†	62112.5	64879.8	58285 ug/L	58285 ppb	23:30:17
1	Ca 317.933Radial†	6406.8	6655.8	13196 ug/L	13196 ppb	23:30:17
1	Fe 238.204 Radial†	5021.7	5217.8	62146 ug/L	62146 ppb	23:30:17
1	K 766.490 Radial†	52935.4	52096.3	9077.4 ug/L	9077.4 ppb	23:30:17
1	Mg 279.077 IEC†	216.1	221.7	9583.9 ug/L	9583.9 ppb	23:30:37
1	Na 589.592 Radial†	483.8	2088.9	598.97 ug/L	598.97 ppb	23:30:17
1	Sr 421.552†	16837.7	17534.4	118.35 ug/L	118.35 ppb	23:30:17
1	Sc 361.383	865184.5	865184.5	100.05 %		23:31:34
1	Y 371.029	722157.1	722157.1	105.87 %		23:31:34
1	Ag 328.068†	-1726.5	-2160.8	11.584 ug/L	11.584 ppb	23:31:39
1	As 188.979†	-40.7	-5.2	32.895 ug/L	32.895 ppb	23:31:59
1	B 249.677†	144.2	750.9	5.7753 ug/L	5.7753 ppb	23:31:39
1	Ba 233.527†	106039.7	106005.8	800.88 ug/L	800.88 ppb	23:31:39
1	Be 313.107†	-3571.7	374.2	5.4552 ug/L	5.4552 ppb	23:31:39
1	Cd 226.502†	387.7	587.1	-0.2827 ug/L	-0.2827 ppb	23:31:59
1	Co 228.616†	1574.8	1660.4	25.408 ug/L	25.408 ppb	23:31:59
1	Cr 267.716†	6269.7	6177.6	67.331 ug/L	67.331 ppb	23:31:39
1	Cu 324.752†	23262.3	16402.6	50.421 ug/L	50.421 ppb	23:31:39
1	Mn 257.610†	1820029.4	1818646.8	1867.6 ug/L	1867.6 ppb	23:31:34
1	Mo 202.031†	-22.5	-25.3	3.2562 ug/L	3.2562 ppb	23:31:59
1	Ni 231.604†	2162.5	2078.2	47.202 ug/L	47.202 ppb	23:31:59
1	P 214.914†	1525.3	1290.1	610.83 ug/L	610.83 ppb	23:31:59
1	Pb 220.353†	878.1	948.8	110.53 ug/L	110.53 ppb	23:31:59
1	S 181.975 Axial†	456.5	404.4	478.37 ug/L	478.37 ppb	23:31:59
1	Sb 206.836†	59.3	23.8	-2.5836 ug/L	-2.5836 ppb	23:31:59
1	Se 196.026†	-347.2	-317.5	18.926 ug/L	18.926 ppb	23:31:59
1	Si 251.611†	653744.8	652935.5	19427 ug/L	19427 ppb	23:31:34
1	Sn 189.927†	-78.3	-95.9	-12.528 ug/L	-12.528 ppb	23:31:59
1	Ti 334.940†	1527482.6	1528430.1	2347.7 ug/L	2347.7 ppb	23:31:34
1	Tl 190.801†	-146.7	-103.4	-1.5637 ug/L	-1.5637 ppb	23:31:59
1	U 409.014†	-7197.9	-2869.6	-100.36 ug/L	-100.36 ppb	23:31:39
1	V 292.402†	16683.0	18382.7	116.03 ug/L	116.03 ppb	23:31:39
1	Zn 213.857†	18634.0	17879.8	146.55 ug/L	146.55 ppb	23:31:39
1	SiO2†	656599.0	655745.4	41853 ug/L	41853 ppb	23:33:07
2	Sc Radial	3804.9	3804.9	96.1 %		23:31:02
2	Y RADIAL	4562.1	4562.1	100.5 %		23:30:42
2	Al 396.153Radial†	63058.2	65824.7	59134 ug/L	59134 ppb	23:30:42
2	Ca 317.933Radial†	6474.9	6722.6	13328 ug/L	13328 ppb	23:30:42
2	Fe 238.204 Radial†	5108.7	5305.2	63186 ug/L	63186 ppb	23:30:42
2	K 766.490 Radial†	53838.7	53002.8	9235.4 ug/L	9235.4 ppb	23:30:42
2	Mg 279.077 IEC†	214.3	219.8	9498.2 ug/L	9498.2 ppb	23:31:02
2	Na 589.592 Radial†	533.9	2140.8	613.84 ug/L	613.84 ppb	23:30:42
2	Sr 421.552†	17085.2	17781.3	120.02 ug/L	120.02 ppb	23:30:42
2	Sc 361.383	852657.8	852657.8	98.600 %		23:32:05
2	Y 371.029	711777.9	711777.9	104.35 %		23:32:05
2	Ag 328.068†	-1659.4	-2118.0	12.131 ug/L	12.131 ppb	23:32:10
2	As 188.979†	-39.2	-4.3	33.483 ug/L	33.483 ppb	23:32:30
2	B 249.677†	53.3	660.9	3.6926 ug/L	3.6926 ppb	23:32:10
2	Ba 233.527†	106588.0	108119.0	816.83 ug/L	816.83 ppb	23:32:10
2	Be 313.107†	-3750.0	140.9	5.3766 ug/L	5.3766 ppb	23:32:10
2	Cd 226.502†	374.7	579.6	-0.4674 ug/L	-0.4674 ppb	23:32:30
2	Co 228.616†	1564.2	1672.8	25.631 ug/L	25.631 ppb	23:32:30
2	Cr 267.716†	6230.5	6229.9	67.910 ug/L	67.910 ppb	23:32:10
2	Cu 324.752†	23276.7	16758.8	51.497 ug/L	51.497 ppb	23:32:10
2	Mn 257.610†	1790845.1	1815773.7	1864.8 ug/L	1864.8 ppb	23:32:05
2	Mo 202.031†	-12.7	-15.7	3.9943 ug/L	3.9943 ppb	23:32:30
2	Ni 231.604†	2143.0	2090.2	47.474 ug/L	47.474 ppb	23:32:30

2	P 214.914†	1522.4	1309.5	619.86 ug/L	619.86 ppb	23:32:30
2	Pb 220.353†	890.9	974.8	113.45 ug/L	113.45 ppb	23:32:30
2	S 181.975 Axial†	442.1	396.4	468.64 ug/L	468.64 ppb	23:32:30
2	Sb 206.836†	71.2	36.7	1.3574 ug/L	1.3574 ppb	23:32:30
2	Se 196.026†	-348.4	-323.8	18.706 ug/L	18.706 ppb	23:32:30
2	Si 251.611†	643844.9	652494.7	19414 ug/L	19414 ppb	23:32:05
2	Sn 189.927†	-82.1	-100.9	-13.302 ug/L	-13.302 ppb	23:32:30
2	Ti 334.940†	1505636.8	1528703.8	2348.1 ug/L	2348.1 ppb	23:32:05
2	Tl 190.801†	-149.1	-108.0	-2.8760 ug/L	-2.8760 ppb	23:32:30
2	U 409.014†	-6997.7	-2772.3	-97.322 ug/L	-97.322 ppb	23:32:10
2	V 292.402†	16675.1	18619.7	117.53 ug/L	117.53 ppb	23:32:10
2	Zn 213.857†	18680.6	18200.7	149.19 ug/L	149.19 ppb	23:32:10
2	SiO2†	657254.4	666051.6	42510 ug/L	42510 ppb	23:33:13
3	Sc Radial	3791.5	3791.5	95.7 %		23:31:27
3	Y RADIAL	4413.1	4413.1	97.24 %		23:31:07
3	Al 396.153Radial†	61483.6	64411.3	57864 ug/L	57864 ppb	23:31:07
3	Ca 317.933Radial†	6297.9	6561.4	13009 ug/L	13009 ppb	23:31:07
3	Fe 238.204 Radial†	4947.5	5155.6	61405 ug/L	61405 ppb	23:31:07
3	K 766.490 Radial†	52457.2	51757.4	9018.4 ug/L	9018.4 ppb	23:31:07
3	Mg 279.077 IEC†	216.1	222.4	9615.0 ug/L	9615.0 ppb	23:31:27
3	Na 589.592 Radial†	493.3	2100.3	602.23 ug/L	602.23 ppb	23:31:07
3	Sr 421.552†	16571.6	17307.5	116.82 ug/L	116.82 ppb	23:31:07
3	Sc 361.383	858468.4	858468.4	99.272 %		23:32:36
3	Y 371.029	717440.4	717440.4	105.18 %		23:32:36
3	Ag 328.068†	-1683.2	-2130.6	11.476 ug/L	11.476 ppb	23:32:42
3	As 188.979†	-42.0	-6.9	32.099 ug/L	32.099 ppb	23:33:02
3	B 249.677†	103.4	710.9	5.0459 ug/L	5.0459 ppb	23:32:42
3	Ba 233.527†	106525.4	107324.3	810.79 ug/L	810.79 ppb	23:32:42
3	Be 313.107†	-3706.0	211.0	5.3990 ug/L	5.3990 ppb	23:32:42
3	Cd 226.502†	376.5	578.9	-0.2914 ug/L	-0.2914 ppb	23:33:02
3	Co 228.616†	1565.1	1662.9	25.473 ug/L	25.473 ppb	23:33:02
3	Cr 267.716†	6209.3	6165.7	67.191 ug/L	67.191 ppb	23:32:42
3	Cu 324.752†	23265.2	16587.4	50.911 ug/L	50.911 ppb	23:32:42
3	Mn 257.610†	1804537.5	1817272.9	1866.2 ug/L	1866.2 ppb	23:32:36
3	Mo 202.031†	-9.2	-12.1	4.0995 ug/L	4.0995 ppb	23:33:02
3	Ni 231.604†	2173.2	2105.9	47.830 ug/L	47.830 ppb	23:33:02
3	P 214.914†	1550.5	1327.4	630.20 ug/L	630.20 ppb	23:33:02
3	Pb 220.353†	885.8	963.5	112.12 ug/L	112.12 ppb	23:33:02
3	S 181.975 Axial†	440.9	392.2	463.78 ug/L	463.78 ppb	23:33:02
3	Sb 206.836†	60.5	25.4	-2.0389 ug/L	-2.0389 ppb	23:33:02
3	Se 196.026†	-346.1	-319.1	15.753 ug/L	15.753 ppb	23:33:02
3	Si 251.611†	648677.9	652943.3	19427 ug/L	19427 ppb	23:32:36
3	Sn 189.927†	-74.5	-92.7	-12.043 ug/L	-12.043 ppb	23:33:02
3	Ti 334.940†	1515490.1	1528293.7	2347.4 ug/L	2347.4 ppb	23:32:36
3	Tl 190.801†	-150.4	-108.3	-2.9625 ug/L	-2.9625 ppb	23:33:02
3	U 409.014†	-7084.3	-2811.4	-98.387 ug/L	-98.387 ppb	23:32:42
3	V 292.402†	16706.7	18537.0	117.22 ug/L	117.22 ppb	23:32:42
3	Zn 213.857†	18651.0	18042.7	148.01 ug/L	148.01 ppb	23:32:42
3	SiO2†	656884.8	661167.6	42199 ug/L	42199 ppb	23:33:18

Mean Data: 245136012|944111|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	858770.2	99.307 %	0.7249			0.73%
Sc Radial	3799.7	96.0 %	0.18			0.19%
Y 371.029	717125.2	105.14 %	0.762			0.72%
Y RADIAL	4490.9	98.95 %	1.647			1.66%
Ag 328.068†	-2136.5	11.730 ug/L	0.3515	11.730 ppb	0.3515	3.00%
Al 396.153Radial†	65038.6	58428 ug/L	646.8	58428 ppb	646.8	1.11%
As 188.979†	-5.5	32.826 ug/L	0.6946	32.826 ppb	0.6946	2.12%
B 249.677†	707.6	4.8379 ug/L	1.05679	4.8379 ppb	1.05679	21.84%
Ba 233.527†	107149.7	809.50 ug/L	8.056	809.50 ppb	8.056	1.00%
Be 313.107†	242.0	5.4103 ug/L	0.04047	5.4103 ppb	0.04047	0.75%
Ca 317.933Radial†	6646.6	13178 ug/L	160.5	13178 ppb	160.5	1.22%
Cd 226.502†	581.9	-0.3471 ug/L	0.10423	-0.3471 ppb	0.10423	30.03%
Co 228.616†	1665.4	25.504 ug/L	0.1148	25.504 ppb	0.1148	0.45%
Cr 267.716†	6191.1	67.477 ug/L	0.3816	67.477 ppb	0.3816	0.57%
Cu 324.752†	16583.0	50.943 ug/L	0.5386	50.943 ppb	0.5386	1.06%
Fe 238.204 Radial†	5226.2	62246 ug/L	895.0	62246 ppb	895.0	1.44%
K 766.490 Radial†	52285.5	9110.4 ug/L	112.21	9110.4 ppb	112.21	1.23%

Mg 279.077 IEC†	221.3	9565.7 ug/L	60.49	9565.7 ppb	60.49	0.63%
Mn 257.610†	1817231.1	1866.2 ug/L	1.42	1866.2 ppb	1.42	0.08%
Mo 202.031†	-17.7	3.7833 ug/L	0.45954	3.7833 ppb	0.45954	12.15%
Na 589.592 Radial†	2110.0	605.01 ug/L	7.816	605.01 ppb	7.816	1.29%
Ni 231.604†	2091.4	47.502 ug/L	0.3153	47.502 ppb	0.3153	0.66%
P 214.914†	1309.0	620.30 ug/L	9.691	620.30 ppb	9.691	1.56%
Pb 220.353†	962.4	112.03 ug/L	1.463	112.03 ppb	1.463	1.31%
S 181.975 Axial†	397.7	470.26 ug/L	7.429	470.26 ppb	7.429	1.58%
Sb 206.836†	28.6	-1.0883 ug/L	2.13551	-1.0883 ppb	2.13551	196.22%
Se 196.026†	-320.1	17.795 ug/L	1.7721	17.795 ppb	1.7721	9.96%
Si 251.611†	652791.2	19423 ug/L	7.6	19423 ppb	7.6	0.04%
Sn 189.927†	-96.5	-12.624 ug/L	0.6347	-12.624 ppb	0.6347	5.03%
Sr 421.552†	17541.1	118.40 ug/L	1.600	118.40 ppb	1.600	1.35%
Ti 334.940†	1528475.9	2347.7 ug/L	0.35	2347.7 ppb	0.35	0.01%
Tl 190.801†	-106.6	-2.4674 ug/L	0.78382	-2.4674 ppb	0.78382	31.77%
U 409.014†	-2817.8	-98.690 ug/L	1.5418	-98.690 ppb	1.5418	1.56%
V 292.402†	18513.1	116.93 ug/L	0.795	116.93 ppb	0.795	0.68%
Zn 213.857†	18041.0	147.92 ug/L	1.323	147.92 ppb	1.323	0.89%
SiO2†	660988.2	42187 ug/L	329.0	42187 ppb	329.0	0.78%

Sequence No.: 67

Sample ID: 245136013|944111|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 74

Date Collected: 2/3/2010 23:35:30

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245136013|944111|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3561.9	3561.9	89.9 %		23:37:43
1	Y RADIAL	4303.1	4303.1	94.81 %		23:37:43
1	Al 396.153Radial†	89362.4	99546.3	89428 ug/L	89428 ppb	23:37:23
1	Ca 317.933Radial†	11741.1	13037.1	25848 ug/L	25848 ppb	23:37:23
1	Fe 238.204 Radial†	7678.9	8525.4	101540 ug/L	101540 ppb	23:37:23
1	K 766.490 Radial†	84325.9	90720.4	15807 ug/L	15807 ppb	23:37:23
1	Mg 279.077 IEC†	334.1	368.1	15914 ug/L	15914 ppb	23:37:43
1	Na 589.592 Radial†	560.2	2208.0	633.10 ug/L	633.10 ppb	23:37:23
1	Sr 421.552†	29633.5	32945.2	222.37 ug/L	222.37 ppb	23:37:23
1	Sc 361.383	853281.4	853281.4	98.672 %		23:38:42
1	Y 371.029	734263.9	734263.9	107.65 %		23:38:42
1	Ag 328.068†	-4566.3	-5062.8	11.813 ug/L	11.813 ppb	23:38:42
1	As 188.979†	-45.3	-10.4	52.517 ug/L	52.517 ppb	23:39:02
1	B 249.677†	567.6	1182.0	8.5017 ug/L	8.5017 ppb	23:38:42
1	Ba 233.527†	173355.7	175706.0	1327.4 ug/L	1327.4 ppb	23:38:42
1	Be 313.107†	-7426.7	-3582.5	7.3506 ug/L	7.3506 ppb	23:38:42
1	Cd 226.502†	719.3	928.6	-0.7830 ug/L	-0.7830 ppb	23:39:02
1	Co 228.616†	2210.3	2326.4	34.470 ug/L	34.470 ppb	23:39:02
1	Cr 267.716†	7994.3	8012.8	87.773 ug/L	87.773 ppb	23:39:02
1	Cu 324.752†	32179.7	25764.4	79.384 ug/L	79.384 ppb	23:38:42
1	Mn 257.610†	2503801.9	2536995.1	2606.7 ug/L	2606.7 ppb	23:38:42
1	Mo 202.031†	-37.9	-41.2	5.3840 ug/L	5.3840 ppb	23:39:02
1	Ni 231.604†	2790.7	2745.0	62.345 ug/L	62.345 ppb	23:39:02
1	P 214.914†	3146.4	2954.3	1427.5 ug/L	1427.5 ppb	23:39:02
1	Pb 220.353†	1297.9	1386.5	161.52 ug/L	161.52 ppb	23:39:02
1	S 181.975 Axial†	1010.5	972.1	1159.6 ug/L	1159.6 ppb	23:39:02
1	Sb 206.836†	98.1	63.8	3.7948 ug/L	3.7948 ppb	23:39:02
1	Se 196.026†	-519.1	-496.6	42.997 ug/L	42.997 ppb	23:39:02
1	Si 251.611†	770491.9	780368.4	23219 ug/L	23219 ppb	23:38:42
1	Sn 189.927†	-129.3	-148.7	-18.506 ug/L	-18.506 ppb	23:39:02
1	Ti 334.940†	2424930.6	2459249.7	3778.0 ug/L	3778.0 ppb	23:38:42
1	Tl 190.801†	-188.5	-147.8	0.9419 ug/L	0.9419 ppb	23:39:02
1	U 409.014†	-7525.3	-3301.8	-118.92 ug/L	-118.92 ppb	23:38:42
1	V 292.402†	25705.3	27759.0	173.94 ug/L	173.94 ppb	23:38:42
1	Zn 213.857†	27837.2	27466.7	224.60 ug/L	224.60 ppb	23:39:02
1	SiO2†	777007.1	786928.3	50225 ug/L	50225 ppb	23:40:02
2	Sc Radial	3881.5	3881.5	98.0 %		23:38:08
2	Y RADIAL	4615.4	4615.4	101.7 %		23:38:08
2	Al 396.153Radial†	90920.2	92953.8	83506 ug/L	83506 ppb	23:37:48
2	Ca 317.933Radial†	11875.8	12099.6	23989 ug/L	23989 ppb	23:37:48
2	Fe 238.204 Radial†	7798.9	7944.7	94624 ug/L	94624 ppb	23:37:48
2	K 766.490 Radial†	84760.5	83443.0	14539 ug/L	14539 ppb	23:37:48
2	Mg 279.077 IEC†	325.0	328.3	14189 ug/L	14189 ppb	23:38:08
2	Na 589.592 Radial†	517.3	2112.9	605.83 ug/L	605.83 ppb	23:37:48
2	Sr 421.552†	29988.4	30594.1	206.50 ug/L	206.50 ppb	23:37:48
2	Sc 361.383	859496.3	859496.3	99.391 %		23:39:09
2	Y 371.029	739394.5	739394.5	108.40 %		23:39:09
2	Ag 328.068†	-4649.7	-5113.3	9.2736 ug/L	9.2736 ppb	23:39:09
2	As 188.979†	-62.7	-27.7	44.317 ug/L	44.317 ppb	23:39:29
2	B 249.677†	599.4	1209.9	10.218 ug/L	10.218 ppb	23:39:09
2	Ba 233.527†	174179.0	175263.9	1323.8 ug/L	1323.8 ppb	23:39:09
2	Be 313.107†	-7582.4	-3684.8	7.3123 ug/L	7.3123 ppb	23:39:09
2	Cd 226.502†	719.3	923.3	-0.1238 ug/L	-0.1238 ppb	23:39:29
2	Co 228.616†	2213.1	2313.0	34.320 ug/L	34.320 ppb	23:39:29
2	Cr 267.716†	7935.8	7895.4	86.385 ug/L	86.385 ppb	23:39:29
2	Cu 324.752†	32439.3	25789.7	79.091 ug/L	79.091 ppb	23:39:09
2	Mn 257.610†	2518131.2	2533064.0	2602.1 ug/L	2602.1 ppb	23:39:09
2	Mo 202.031†	-49.0	-52.2	4.0777 ug/L	4.0777 ppb	23:39:29
2	Ni 231.604†	2802.2	2736.1	62.143 ug/L	62.143 ppb	23:39:29

2	P 214.914†	3146.2	2931.0	1419.7 ug/L	1419.7 ppb	23:39:29
2	Pb 220.353†	1299.9	1379.1	160.06 ug/L	160.06 ppb	23:39:29
2	S 181.975 Axial†	1011.3	965.6	1152.8 ug/L	1152.8 ppb	23:39:29
2	Sb 206.836†	76.0	40.9	-2.9973 ug/L	-2.9973 ppb	23:39:29
2	Se 196.026†	-529.2	-503.0	18.281 ug/L	18.281 ppb	23:39:29
2	Si 251.611†	775284.0	779543.6	23194 ug/L	23194 ppb	23:39:09
2	Sn 189.927†	-119.0	-137.4	-17.071 ug/L	-17.071 ppb	23:39:29
2	Ti 334.940†	2441617.4	2458268.6	3776.4 ug/L	3776.4 ppb	23:39:09
2	Tl 190.801†	-201.4	-159.4	-2.4003 ug/L	-2.4003 ppb	23:39:29
2	U 409.014†	-7557.7	-3279.2	-117.40 ug/L	-117.40 ppb	23:39:09
2	V 292.402†	25877.0	27743.3	174.80 ug/L	174.80 ppb	23:39:09
2	Zn 213.857†	27692.2	27116.7	222.28 ug/L	222.28 ppb	23:39:29
2	SiO2†	775738.8	779958.3	49780 ug/L	49780 ppb	23:40:08
3	Sc Radial	3800.8	3800.8	96.0 %		23:38:33
3	Y RADIAL	4559.4	4559.4	100.5 %		23:38:33
3	Al 396.153Radial†	93309.2	97414.0	87513 ug/L	87513 ppb	23:38:13
3	Ca 317.933Radial†	12138.9	12631.2	25043 ug/L	25043 ppb	23:38:13
3	Fe 238.204 Radial†	7975.4	8297.7	98829 ug/L	98829 ppb	23:38:13
3	K 766.490 Radial†	85630.3	86186.9	15017 ug/L	15017 ppb	23:38:13
3	Mg 279.077 IEC†	331.3	341.9	14776 ug/L	14776 ppb	23:38:33
3	Na 589.592 Radial†	558.2	2166.7	621.26 ug/L	621.26 ppb	23:38:13
3	Sr 421.552†	30694.1	31979.6	215.85 ug/L	215.85 ppb	23:38:13
3	Sc 361.383	859661.2	859661.2	99.410 %		23:39:36
3	Y 371.029	739773.6	739773.6	108.46 %		23:39:36
3	Ag 328.068†	-4784.0	-5247.6	10.068 ug/L	10.068 ppb	23:39:36
3	As 188.979†	-59.8	-24.7	46.460 ug/L	46.460 ppb	23:39:56
3	B 249.677†	550.1	1160.2	8.4788 ug/L	8.4788 ppb	23:39:36
3	Ba 233.527†	174162.0	175213.3	1323.6 ug/L	1323.6 ppb	23:39:36
3	Be 313.107†	-7763.1	-3865.0	7.2549 ug/L	7.2549 ppb	23:39:36
3	Cd 226.502†	698.0	901.8	-0.7823 ug/L	-0.7823 ppb	23:39:56
3	Co 228.616†	2213.4	2312.9	34.256 ug/L	34.256 ppb	23:39:56
3	Cr 267.716†	7948.2	7906.3	86.583 ug/L	86.583 ppb	23:39:56
3	Cu 324.752†	32526.0	25870.6	79.544 ug/L	79.544 ppb	23:39:36
3	Mn 257.610†	2520122.4	2534581.1	2604.0 ug/L	2604.0 ppb	23:39:36
3	Mo 202.031†	-33.3	-36.3	5.4980 ug/L	5.4980 ppb	23:39:56
3	Ni 231.604†	2801.6	2735.0	62.118 ug/L	62.118 ppb	23:39:56
3	P 214.914†	3122.2	2906.3	1404.7 ug/L	1404.7 ppb	23:39:56
3	Pb 220.353†	1293.6	1372.5	159.82 ug/L	159.82 ppb	23:39:56
3	S 181.975 Axial†	1003.8	957.8	1142.6 ug/L	1142.6 ppb	23:39:56
3	Sb 206.836†	96.9	62.0	3.3283 ug/L	3.3283 ppb	23:39:56
3	Se 196.026†	-515.2	-488.8	38.899 ug/L	38.899 ppb	23:39:56
3	Si 251.611†	776253.2	780368.9	23219 ug/L	23219 ppb	23:39:36
3	Sn 189.927†	-123.5	-141.9	-17.564 ug/L	-17.564 ppb	23:39:56
3	Ti 334.940†	2443250.3	2459440.0	3778.3 ug/L	3778.3 ppb	23:39:36
3	Tl 190.801†	-204.3	-162.3	-3.2079 ug/L	-3.2079 ppb	23:39:56
3	U 409.014†	-7492.9	-3212.5	-115.71 ug/L	-115.71 ppb	23:39:36
3	V 292.402†	25898.3	27759.8	174.33 ug/L	174.33 ppb	23:39:36
3	Zn 213.857†	27684.0	27103.1	221.76 ug/L	221.76 ppb	23:39:56
3	SiO2†	782838.6	786950.5	50227 ug/L	50227 ppb	23:40:14

Mean Data: 245136013|944111|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	857479.6	99.158 %	0.4205			0.42%
Sc Radial	3748.1	94.6 %	4.20			4.43%
Y 371.029	737810.7	108.17 %	0.451			0.42%
Y RADIAL	4492.6	98.99 %	3.669			3.71%
Ag 328.068†	-5141.2	10.385 ug/L	1.2990	10.385 ppb	1.2990	12.51%
Al 396.153Radial†	96638.0	86815 ug/L	3022.1	86815 ppb	3022.1	3.48%
As 188.979†	-20.9	47.764 ug/L	4.2527	47.764 ppb	4.2527	8.90%
B 249.677†	1184.0	9.0660 ug/L	0.99741	9.0660 ppb	0.99741	11.00%
Ba 233.527†	175394.4	1324.9 ug/L	2.12	1324.9 ppb	2.12	0.16%
Be 313.107†	-3710.8	7.3059 ug/L	0.04815	7.3059 ppb	0.04815	0.66%
Ca 317.933Radial†	12589.3	24960 ug/L	932.2	24960 ppb	932.2	3.73%
Cd 226.502†	917.9	-0.5630 ug/L	0.38039	-0.5630 ppb	0.38039	67.56%
Co 228.616†	2317.4	34.349 ug/L	0.1099	34.349 ppb	0.1099	0.32%
Cr 267.716†	7938.2	86.914 ug/L	0.7505	86.914 ppb	0.7505	0.86%
Cu 324.752†	25808.2	79.340 ug/L	0.2301	79.340 ppb	0.2301	0.29%
Fe 238.204 Radial†	8255.9	98331 ug/L	3484.6	98331 ppb	3484.6	3.54%
K 766.490 Radial†	86783.4	15121 ug/L	640.4	15121 ppb	640.4	4.24%

Mg 279.077 IEC†	346.1	14960 ug/L	877.0	14960 ppb	877.0	5.86%
Mn 257.610†	2534880.1	2604.2 ug/L	2.33	2604.2 ppb	2.33	0.09%
Mo 202.031†	-43.2	4.9866 ug/L	0.78914	4.9866 ppb	0.78914	15.83%
Na 589.592 Radial†	2162.5	620.06 ug/L	13.671	620.06 ppb	13.671	2.20%
Ni 231.604†	2738.7	62.202 ug/L	0.1245	62.202 ppb	0.1245	0.20%
P 214.914†	2930.5	1417.3 ug/L	11.56	1417.3 ppb	11.56	0.82%
Pb 220.353†	1379.4	160.47 ug/L	0.921	160.47 ppb	0.921	0.57%
S 181.975 Axial†	965.2	1151.7 ug/L	8.53	1151.7 ppb	8.53	0.74%
Sb 206.836†	55.6	1.3752 ug/L	3.79393	1.3752 ppb	3.79393	275.87%
Se 196.026†	-496.1	33.393 ug/L	13.2460	33.393 ppb	13.2460	39.67%
Si 251.611†	780093.6	23210 ug/L	14.2	23210 ppb	14.2	0.06%
Sn 189.927†	-142.6	-17.714 ug/L	0.7295	-17.714 ppb	0.7295	4.12%
Sr 421.552†	31839.6	214.91 ug/L	7.977	214.91 ppb	7.977	3.71%
Ti 334.940†	2458986.1	3777.5 ug/L	1.02	3777.5 ppb	1.02	0.03%
Tl 190.801†	-156.5	-1.5554 ug/L	2.20011	-1.5554 ppb	2.20011	141.45%
U 409.014†	-3264.5	-117.34 ug/L	1.604	-117.34 ppb	1.604	1.37%
V 292.402†	27754.0	174.35 ug/L	0.430	174.35 ppb	0.430	0.25%
Zn 213.857†	27228.8	222.88 ug/L	1.514	222.88 ppb	1.514	0.68%
SiO2†	784612.4	50077 ug/L	257.2	50077 ppb	257.2	0.51%

Sequence No.: 68
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 2/3/2010 23:42:24
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3705.2	3705.2	93.6 %		23:44:36
1	Y RADIAL	3942.3	3942.3	86.87 %		23:44:16
1	Al 396.153Radial†	5259.2	5816.7	5202.1 ug/L	5202.1 ppb	23:44:16
1	Ca 317.933Radial†	2485.1	2639.8	5233.7 ug/L	5233.7 ppb	23:44:36
1	Fe 238.204 Radial†	422.9	440.2	5257.0 ug/L	5257.0 ppb	23:44:36
1	K 766.490 Radial†	30051.4	29087.4	5065.1 ug/L	5065.1 ppb	23:44:16
1	Mg 279.077 IEC†	115.9	120.6	5248.0 ug/L	5248.0 ppb	23:44:36
1	Na 589.592 Radial†	29353.1	32957.0	9449.9 ug/L	9449.9 ppb	23:44:16
1	Sr 421.552†	67545.5	72190.5	487.64 ug/L	487.64 ppb	23:44:16
1	Sc 361.383	864756.7	864756.7	99.999 %		23:45:35
1	Y 371.029	672075.4	672075.4	98.532 %		23:45:35
1	Ag 328.068†	106819.4	106384.8	486.14 ug/L	486.14 ppb	23:45:35
1	As 188.979†	1207.7	1243.1	478.44 ug/L	478.44 ppb	23:45:55
1	B 249.677†	21515.3	22122.2	467.85 ug/L	467.85 ppb	23:45:35
1	Ba 233.527†	63913.0	63931.4	482.91 ug/L	482.91 ppb	23:45:35
1	Be 313.107†	1414007.8	1417959.4	484.59 ug/L	484.59 ppb	23:45:35
1	Cd 226.502†	45848.8	46048.6	480.21 ug/L	480.21 ppb	23:45:35
1	Co 228.616†	25201.1	25287.6	470.19 ug/L	470.19 ppb	23:45:55
1	Cr 267.716†	45371.0	45282.2	483.69 ug/L	483.69 ppb	23:45:35
1	Cu 324.752†	174375.0	167527.6	480.87 ug/L	480.87 ppb	23:45:35
1	Mn 257.610†	470709.2	470219.3	481.70 ug/L	481.70 ppb	23:45:35
1	Mo 202.031†	7080.2	7077.4	482.66 ug/L	482.66 ppb	23:45:55
1	Ni 231.604†	20941.4	20858.3	473.65 ug/L	473.65 ppb	23:45:55
1	P 214.914†	4881.8	4647.4	2268.6 ug/L	2268.6 ppb	23:45:55
1	Pb 220.353†	4308.4	4379.6	480.76 ug/L	480.76 ppb	23:45:55
1	S 181.975 Axial†	821.2	769.3	929.95 ug/L	929.95 ppb	23:45:55
1	Sb 206.836†	1561.4	1525.9	486.92 ug/L	486.92 ppb	23:45:55
1	Se 196.026†	857.7	887.2	498.30 ug/L	498.30 ppb	23:45:55
1	Si 251.611†	82375.9	81886.8	2430.5 ug/L	2430.5 ppb	23:45:35
1	Sn 189.927†	2937.9	2920.2	475.03 ug/L	475.03 ppb	23:45:55
1	Ti 334.940†	318715.3	320411.6	491.84 ug/L	491.84 ppb	23:45:35
1	Tl 190.801†	1631.1	1674.3	481.89 ug/L	481.89 ppb	23:45:55
1	U 409.014†	9976.7	14301.6	462.45 ug/L	462.45 ppb	23:45:35
1	V 292.402†	67663.8	69371.9	487.90 ug/L	487.90 ppb	23:45:35
1	Zn 213.857†	57000.6	56255.8	477.04 ug/L	477.04 ppb	23:45:35
1	SiO2†	81964.8	81432.8	5184.3 ug/L	5184.3 ppb	23:46:55
2	Sc Radial	3725.3	3725.3	94.1 %		23:45:01
2	Y RADIAL	4111.6	4111.6	90.59 %		23:44:41
2	Al 396.153Radial†	5142.5	5662.4	5063.2 ug/L	5063.2 ppb	23:44:41
2	Ca 317.933Radial†	2466.3	2605.5	5165.7 ug/L	5165.7 ppb	23:45:01
2	Fe 238.204 Radial†	417.4	431.9	5158.1 ug/L	5158.1 ppb	23:45:01
2	K 766.490 Radial†	29552.3	28383.7	4942.5 ug/L	4942.5 ppb	23:44:41
2	Mg 279.077 IEC†	112.9	116.7	5076.8 ug/L	5076.8 ppb	23:45:01
2	Na 589.592 Radial†	28728.7	32124.0	9211.1 ug/L	9211.1 ppb	23:44:41
2	Sr 421.552†	66386.3	70568.8	476.69 ug/L	476.69 ppb	23:44:41
2	Sc 361.383	856693.2	856693.2	99.067 %		23:46:03
2	Y 371.029	667599.6	667599.6	97.875 %		23:46:03
2	Ag 328.068†	105944.0	106506.6	486.67 ug/L	486.67 ppb	23:46:03
2	As 188.979†	1210.4	1257.3	483.81 ug/L	483.81 ppb	23:46:23
2	B 249.677†	21424.1	22232.7	470.19 ug/L	470.19 ppb	23:46:03
2	Ba 233.527†	63466.8	64082.6	484.05 ug/L	484.05 ppb	23:46:03
2	Be 313.107†	1408436.0	1425644.2	487.22 ug/L	487.22 ppb	23:46:03
2	Cd 226.502†	45519.6	46147.9	481.26 ug/L	481.26 ppb	23:46:03
2	Co 228.616†	25297.5	25622.1	476.42 ug/L	476.42 ppb	23:46:23
2	Cr 267.716†	45049.7	45384.9	484.79 ug/L	484.79 ppb	23:46:03
2	Cu 324.752†	173174.1	167956.7	482.10 ug/L	482.10 ppb	23:46:03
2	Mn 257.610†	467195.6	471103.0	482.61 ug/L	482.61 ppb	23:46:03
2	Mo 202.031†	7089.1	7153.0	487.81 ug/L	487.81 ppb	23:46:23
2	Ni 231.604†	21020.9	21135.6	479.94 ug/L	479.94 ppb	23:46:23

2	P 214.914†	4882.3	4693.8	2292.1 ug/L	2292.1 ppb	23:46:23
2	Pb 220.353†	4319.8	4431.6	486.45 ug/L	486.45 ppb	23:46:23
2	S 181.975 Axial†	840.0	796.0	962.22 ug/L	962.22 ppb	23:46:23
2	Sb 206.836†	1566.4	1545.6	493.26 ug/L	493.26 ppb	23:46:23
2	Se 196.026†	840.0	877.4	492.72 ug/L	492.72 ppb	23:46:23
2	Si 251.611†	81716.3	81996.3	2433.7 ug/L	2433.7 ppb	23:46:03
2	Sn 189.927†	2972.3	2982.6	485.15 ug/L	485.15 ppb	23:46:23
2	Ti 334.940†	316397.7	321072.0	492.86 ug/L	492.86 ppb	23:46:03
2	Tl 190.801†	1624.4	1682.9	484.32 ug/L	484.32 ppb	23:46:23
2	U 409.014†	9858.0	14275.6	461.62 ug/L	461.62 ppb	23:46:03
2	V 292.402†	67172.8	69513.2	488.96 ug/L	488.96 ppb	23:46:03
2	Zn 213.857†	56558.6	56346.2	477.78 ug/L	477.78 ppb	23:46:03
2	SiO2†	82504.1	82748.7	5268.1 ug/L	5268.1 ppb	23:47:01
3	Sc Radial	3771.2	3771.2	95.2 %		23:45:26
3	Y RADIAL	4191.8	4191.8	92.36 %		23:45:06
3	Al 396.153Radial†	5241.4	5699.5	5096.1 ug/L	5096.1 ppb	23:45:06
3	Ca 317.933Radial†	2533.8	2644.4	5242.8 ug/L	5242.8 ppb	23:45:26
3	Fe 238.204 Radial†	425.5	434.9	5194.8 ug/L	5194.8 ppb	23:45:26
3	K 766.490 Radial†	30095.4	28571.2	4975.1 ug/L	4975.1 ppb	23:45:06
3	Mg 279.077 IEC†	119.8	122.5	5331.1 ug/L	5331.1 ppb	23:45:26
3	Na 589.592 Radial†	29406.2	32463.3	9308.3 ug/L	9308.3 ppb	23:45:06
3	Sr 421.552†	67526.0	70905.6	478.96 ug/L	478.96 ppb	23:45:06
3	Sc 361.383	841868.1	841868.1	97.353 %		23:46:30
3	Y 371.029	656706.3	656706.3	96.278 %		23:46:30
3	Ag 328.068†	106683.0	109149.0	498.71 ug/L	498.71 ppb	23:46:30
3	As 188.979†	1231.2	1300.2	500.25 ug/L	500.25 ppb	23:46:50
3	B 249.677†	21569.3	22762.7	481.42 ug/L	481.42 ppb	23:46:30
3	Ba 233.527†	63806.7	65559.8	495.21 ug/L	495.21 ppb	23:46:30
3	Be 313.107†	1419527.2	1462073.0	499.66 ug/L	499.66 ppb	23:46:30
3	Cd 226.502†	45787.5	47232.2	492.58 ug/L	492.58 ppb	23:46:30
3	Co 228.616†	25376.7	26153.1	486.29 ug/L	486.29 ppb	23:46:50
3	Cr 267.716†	45412.4	46558.3	497.32 ug/L	497.32 ppb	23:46:30
3	Cu 324.752†	174106.7	171992.9	493.68 ug/L	493.68 ppb	23:46:30
3	Mn 257.610†	469856.1	482140.7	493.90 ug/L	493.90 ppb	23:46:30
3	Mo 202.031†	7117.0	7307.7	498.35 ug/L	498.35 ppb	23:46:50
3	Ni 231.604†	21093.8	21584.2	490.13 ug/L	490.13 ppb	23:46:50
3	P 214.914†	4885.7	4784.1	2335.8 ug/L	2335.8 ppb	23:46:50
3	Pb 220.353†	4334.6	4523.6	496.53 ug/L	496.53 ppb	23:46:50
3	S 181.975 Axial†	819.3	789.7	954.63 ug/L	954.63 ppb	23:46:50
3	Sb 206.836†	1571.6	1578.7	503.79 ug/L	503.79 ppb	23:46:50
3	Se 196.026†	846.0	898.5	504.26 ug/L	504.26 ppb	23:46:50
3	Si 251.611†	82109.7	83853.0	2488.8 ug/L	2488.8 ppb	23:46:30
3	Sn 189.927†	2956.8	3019.5	491.16 ug/L	491.16 ppb	23:46:50
3	Ti 334.940†	318068.4	328412.3	504.11 ug/L	504.11 ppb	23:46:30
3	Tl 190.801†	1635.2	1722.9	495.83 ug/L	495.83 ppb	23:46:50
3	U 409.014†	10009.4	14606.4	472.32 ug/L	472.32 ppb	23:46:30
3	V 292.402†	67811.4	71363.3	501.95 ug/L	501.95 ppb	23:46:30
3	Zn 213.857†	56958.8	57762.6	489.81 ug/L	489.81 ppb	23:46:30
3	SiO2†	83048.7	84774.6	5397.1 ug/L	5397.1 ppb	23:47:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	854439.3	98.806 %	1.3425			1.36%
Sc Radial	3733.9	94.3 %	0.85			0.91%
Y 371.029	665460.4	97.562 %	1.1589			1.19%
Y RADIAL	4081.9	89.94 %	2.806			3.12%
Ag 328.068†	107346.8	490.51 ug/L	7.112	490.51 ppb	7.112	1.45%
QC value within limits for Ag 328.068 Recovery = 98.10%						
Al 396.153Radial†	5726.2	5120.5 ug/L	72.60	5120.5 ppb	72.60	1.42%
QC value within limits for Al 396.153Radial Recovery = 102.41%						
As 188.979†	1266.9	487.50 ug/L	11.364	487.50 ppb	11.364	2.33%
QC value within limits for As 188.979 Recovery = 97.50%						
B 249.677†	22372.5	473.15 ug/L	7.254	473.15 ppb	7.254	1.53%
QC value within limits for B 249.677 Recovery = 94.63%						
Ba 233.527†	64524.6	487.39 ug/L	6.796	487.39 ppb	6.796	1.39%
QC value within limits for Ba 233.527 Recovery = 97.48%						
Be 313.107†	1435225.5	490.49 ug/L	8.051	490.49 ppb	8.051	1.64%
QC value within limits for Be 313.107 Recovery = 98.10%						
Ca 317.933Radial†	2629.9	5214.1 ug/L	42.14	5214.1 ppb	42.14	0.81%

QC value within limits for Ca 317.933 Radial Recovery = 104.28%							
Cd	226.502†	46476.2	484.68 ug/L	6.856	484.68 ppb	6.856	1.41%
QC value within limits for Cd 226.502 Recovery = 96.94%							
Co	228.616†	25687.6	477.63 ug/L	8.120	477.63 ppb	8.120	1.70%
QC value within limits for Co 228.616 Recovery = 95.53%							
Cr	267.716†	45741.8	488.60 ug/L	7.572	488.60 ppb	7.572	1.55%
QC value within limits for Cr 267.716 Recovery = 97.72%							
Cu	324.752†	169159.1	485.55 ug/L	7.067	485.55 ppb	7.067	1.46%
QC value within limits for Cu 324.752 Recovery = 97.11%							
Fe	238.204 Radial†	435.7	5203.3 ug/L	50.01	5203.3 ppb	50.01	0.96%
QC value within limits for Fe 238.204 Radial Recovery = 104.07%							
K	766.490 Radial†	28680.8	4994.2 ug/L	63.49	4994.2 ppb	63.49	1.27%
QC value within limits for K 766.490 Radial Recovery = 99.88%							
Mg	279.077 IEC†	119.9	5218.6 ug/L	129.66	5218.6 ppb	129.66	2.48%
QC value within limits for Mg 279.077 IEC Recovery = 104.37%							
Mn	257.610†	474487.7	486.07 ug/L	6.796	486.07 ppb	6.796	1.40%
QC value within limits for Mn 257.610 Recovery = 97.21%							
Mo	202.031†	7179.4	489.61 ug/L	7.998	489.61 ppb	7.998	1.63%
QC value within limits for Mo 202.031 Recovery = 97.92%							
Na	589.592 Radial†	32514.8	9323.1 ug/L	120.10	9323.1 ppb	120.10	1.29%
QC value within limits for Na 589.592 Radial Recovery = 93.23%							
Ni	231.604†	21192.7	481.24 ug/L	8.318	481.24 ppb	8.318	1.73%
QC value within limits for Ni 231.604 Recovery = 96.25%							
P	214.914†	4708.4	2298.8 ug/L	34.07	2298.8 ppb	34.07	1.48%
QC value within limits for P 214.914 Recovery = 91.95%							
Pb	220.353†	4444.9	487.91 ug/L	7.989	487.91 ppb	7.989	1.64%
QC value within limits for Pb 220.353 Recovery = 97.58%							
S	181.975 Axial†	785.0	948.93 ug/L	16.872	948.93 ppb	16.872	1.78%
QC value within limits for S 181.975 Axial Recovery = 94.89%							
Sb	206.836†	1550.1	494.66 ug/L	8.519	494.66 ppb	8.519	1.72%
QC value within limits for Sb 206.836 Recovery = 98.93%							
Se	196.026†	887.7	498.43 ug/L	5.773	498.43 ppb	5.773	1.16%
QC value within limits for Se 196.026 Recovery = 99.69%							
Si	251.611†	82578.7	2451.0 ug/L	32.78	2451.0 ppb	32.78	1.34%
QC value within limits for Si 251.611 Recovery = 98.04%							
Sn	189.927†	2974.1	483.78 ug/L	8.148	483.78 ppb	8.148	1.68%
QC value within limits for Sn 189.927 Recovery = 96.76%							
Sr	421.552†	71221.7	481.10 ug/L	5.781	481.10 ppb	5.781	1.20%
QC value within limits for Sr 421.552 Recovery = 96.22%							
Ti	334.940†	323298.7	496.27 ug/L	6.809	496.27 ppb	6.809	1.37%
QC value within limits for Ti 334.940 Recovery = 99.25%							
Tl	190.801†	1693.4	487.35 ug/L	7.446	487.35 ppb	7.446	1.53%
QC value within limits for Tl 190.801 Recovery = 97.47%							
U	409.014†	14394.5	465.47 ug/L	5.953	465.47 ppb	5.953	1.28%
QC value within limits for U 409.014 Recovery = 93.09%							
V	292.402†	70082.8	492.93 ug/L	7.827	492.93 ppb	7.827	1.59%
QC value within limits for V 292.402 Recovery = 98.59%							
Zn	213.857†	56788.2	481.54 ug/L	7.170	481.54 ppb	7.170	1.49%
QC value within limits for Zn 213.857 Recovery = 96.31%							
SiO2		82985.4	5283.2 ug/L	107.22	5283.2 ppb	107.22	2.03%
QC value within limits for SiO2 Recovery = 98.80%							

All analyte(s) passed QC.

Sequence No.: 69
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 2/3/2010 23:49:16
 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	3736.0	3736.0	94.3 %		23:51:27
1	Y RADIAL	4235.4	4235.4	93.32 %		23:51:07
1	Al 396.153Radial†	-200.2	-16.4	-14.750 ug/L	-14.750 ppb	23:51:07
1	Ca 317.933Radial†	15.3	-0.1	-0.2176 ug/L	-0.2176 ppb	23:51:27
1	Fe 238.204 Radial†	12.0	1.0	11.352 ug/L	11.352 ppb	23:51:27
1	K 766.490 Radial†	3219.1	381.5	66.520 ug/L	66.520 ppb	23:51:07
1	Mg 279.077 IEC†	1.4	-1.9	-81.027 ug/L	-81.027 ppb	23:51:27
1	Na 589.592 Radial†	-1633.2	-146.0	-41.851 ug/L	-41.851 ppb	23:51:07
1	Sr 421.552†	6.1	6.0	0.0407 ug/L	0.0407 ppb	23:51:07
1	Sc 361.383	844919.9	844919.9	97.706 %		23:52:24
1	Y 371.029	666930.4	666930.4	97.777 %		23:52:24
1	Ag 328.068†	399.8	-26.0	-0.1121 ug/L	-0.1121 ppb	23:52:24
1	As 188.979†	-26.4	8.4	3.2046 ug/L	3.2046 ppb	23:52:44
1	B 249.677†	-566.3	27.2	0.5775 ug/L	0.5775 ppb	23:52:24
1	Ba 233.527†	0.4	18.5	0.1384 ug/L	0.1384 ppb	23:52:44
1	Be 313.107†	-3848.3	5.4	0.0016 ug/L	0.0016 ppb	23:52:24
1	Cd 226.502†	-209.8	-15.1	-0.1591 ug/L	-0.1591 ppb	23:52:44
1	Co 228.616†	-91.0	-6.8	-0.1240 ug/L	-0.1240 ppb	23:52:44
1	Cr 267.716†	19.7	-68.9	-0.7338 ug/L	-0.7338 ppb	23:52:24
1	Cu 324.752†	6892.1	205.6	0.5936 ug/L	0.5936 ppb	23:52:24
1	Mn 257.610†	653.8	176.7	0.1853 ug/L	0.1853 ppb	23:52:44
1	Mo 202.031†	14.6	12.2	0.8287 ug/L	0.8287 ppb	23:52:44
1	Ni 231.604†	94.4	13.4	0.3053 ug/L	0.3053 ppb	23:52:44
1	P 214.914†	238.5	9.7	4.7786 ug/L	4.7786 ppb	23:52:44
1	Pb 220.353†	-93.5	-24.5	-2.6830 ug/L	-2.6830 ppb	23:52:44
1	S 181.975 Axial†	42.7	-8.3	-9.9902 ug/L	-9.9902 ppb	23:52:44
1	Sb 206.836†	38.0	3.3	1.0420 ug/L	1.0420 ppb	23:52:44
1	Se 196.026†	-18.4	10.7	5.8409 ug/L	5.8409 ppb	23:52:44
1	Si 251.611†	571.5	95.4	2.8275 ug/L	2.8275 ppb	23:52:44
1	Sn 189.927†	17.2	-0.0	-0.0036 ug/L	-0.0036 ppb	23:52:44
1	Ti 334.940†	-1715.4	-61.1	-0.0848 ug/L	-0.0848 ppb	23:52:24
1	Tl 190.801†	-37.1	5.2	1.4953 ug/L	1.4953 ppb	23:52:44
1	U 409.014†	-4373.9	-151.9	-4.9279 ug/L	-4.9279 ppb	23:52:24
1	V 292.402†	-1745.0	-78.2	-0.5433 ug/L	-0.5433 ppb	23:52:24
1	Zn 213.857†	725.9	-2.2	-0.0224 ug/L	-0.0224 ppb	23:52:44
1	SiO2†	683.4	167.0	10.634 ug/L	10.634 ppb	23:53:40
2	Sc Radial	3730.8	3730.8	94.2 %		23:51:52
2	Y RADIAL	4164.3	4164.3	91.76 %		23:51:32
2	Al 396.153Radial†	-193.3	-9.4	-8.4794 ug/L	-8.4794 ppb	23:51:32
2	Ca 317.933Radial†	15.4	0.0	0.0677 ug/L	0.0677 ppb	23:51:52
2	Fe 238.204 Radial†	12.7	1.7	19.794 ug/L	19.794 ppb	23:51:52
2	K 766.490 Radial†	3139.6	301.7	52.614 ug/L	52.614 ppb	23:51:32
2	Mg 279.077 IEC†	1.7	-1.5	-64.547 ug/L	-64.547 ppb	23:51:52
2	Na 589.592 Radial†	-1565.3	-76.3	-21.879 ug/L	-21.879 ppb	23:51:32
2	Sr 421.552†	24.0	25.0	0.1689 ug/L	0.1689 ppb	23:51:32
2	Sc 361.383	840062.3	840062.3	97.144 %		23:52:50
2	Y 371.029	664353.3	664353.3	97.399 %		23:52:50
2	Ag 328.068†	468.2	46.8	0.2213 ug/L	0.2213 ppb	23:52:50
2	As 188.979†	-26.7	7.9	3.0274 ug/L	3.0274 ppb	23:53:10
2	B 249.677†	-621.4	-32.9	-0.7008 ug/L	-0.7008 ppb	23:52:50
2	Ba 233.527†	-27.0	-9.8	-0.0752 ug/L	-0.0752 ppb	23:53:10
2	Be 313.107†	-3794.0	38.6	0.0132 ug/L	0.0132 ppb	23:52:50
2	Cd 226.502†	-196.2	-2.3	-0.0270 ug/L	-0.0270 ppb	23:53:10
2	Co 228.616†	-96.5	-12.9	-0.2384 ug/L	-0.2384 ppb	23:53:10
2	Cr 267.716†	47.5	-40.2	-0.4266 ug/L	-0.4266 ppb	23:52:50
2	Cu 324.752†	6896.2	250.6	0.7244 ug/L	0.7244 ppb	23:52:50
2	Mn 257.610†	631.5	157.6	0.1660 ug/L	0.1660 ppb	23:53:10
2	Mo 202.031†	14.1	11.7	0.7982 ug/L	0.7982 ppb	23:53:10
2	Ni 231.604†	106.6	26.5	0.6031 ug/L	0.6031 ppb	23:53:10

2	P 214.914†	217.9	-10.2	-5.3615 ug/L	-5.3615 ppb	23:53:10
2	Pb 220.353†	-53.4	16.2	1.7746 ug/L	1.7746 ppb	23:53:10
2	S 181.975 Axial†	49.2	-1.3	-1.5326 ug/L	-1.5326 ppb	23:53:10
2	Sb 206.836†	56.6	22.7	6.9809 ug/L	6.9809 ppb	23:53:10
2	Se 196.026†	-21.3	7.6	4.1995 ug/L	4.1995 ppb	23:53:10
2	Si 251.611†	563.9	90.9	2.6949 ug/L	2.6949 ppb	23:53:10
2	Sn 189.927†	8.4	-9.0	-1.4534 ug/L	-1.4534 ppb	23:53:10
2	Ti 334.940†	-1644.8	1.4	0.0107 ug/L	0.0107 ppb	23:52:50
2	Tl 190.801†	-44.7	-2.8	-0.7914 ug/L	-0.7914 ppb	23:53:10
2	U 409.014†	-4415.0	-220.0	-7.1421 ug/L	-7.1421 ppb	23:52:50
2	V 292.402†	-1786.9	-131.6	-0.9202 ug/L	-0.9202 ppb	23:52:50
2	Zn 213.857†	711.6	-12.6	-0.1142 ug/L	-0.1142 ppb	23:53:10
2	SiO2†	624.5	110.5	7.0296 ug/L	7.0296 ppb	23:53:45
3	Sc Radial	3738.9	3738.9	94.4 %		23:52:17
3	Y RADIAL	4138.6	4138.6	91.19 %		23:51:57
3	Al 396.153Radial†	-193.7	-9.4	-8.4362 ug/L	-8.4362 ppb	23:51:57
3	Ca 317.933Radial†	17.9	2.7	5.3442 ug/L	5.3442 ppb	23:52:17
3	Fe 238.204 Radial†	8.9	-2.4	-28.270 ug/L	-28.270 ppb	23:52:17
3	K 766.490 Radial†	3081.8	233.3	40.689 ug/L	40.689 ppb	23:51:57
3	Mg 279.077 IEC†	0.6	-2.7	-115.88 ug/L	-115.88 ppb	23:52:17
3	Na 589.592 Radial†	-1589.5	-98.3	-28.193 ug/L	-28.193 ppb	23:51:57
3	Sr 421.552†	15.0	15.4	0.1040 ug/L	0.1040 ppb	23:51:57
3	Sc 361.383	842259.6	842259.6	97.398 %		23:53:15
3	Y 371.029	665484.4	665484.4	97.565 %		23:53:15
3	Ag 328.068†	441.0	17.6	0.0715 ug/L	0.0715 ppb	23:53:15
3	As 188.979†	-23.1	11.7	4.4565 ug/L	4.4565 ppb	23:53:35
3	B 249.677†	-615.0	-24.7	-0.5194 ug/L	-0.5194 ppb	23:53:15
3	Ba 233.527†	-8.7	9.1	0.0651 ug/L	0.0651 ppb	23:53:35
3	Be 313.107†	-3779.8	63.3	0.0213 ug/L	0.0213 ppb	23:53:15
3	Cd 226.502†	-217.5	-23.7	-0.2454 ug/L	-0.2454 ppb	23:53:35
3	Co 228.616†	-82.7	1.5	0.0297 ug/L	0.0297 ppb	23:53:35
3	Cr 267.716†	78.1	-8.9	-0.0940 ug/L	-0.0940 ppb	23:53:15
3	Cu 324.752†	6828.5	162.6	0.4694 ug/L	0.4694 ppb	23:53:15
3	Mn 257.610†	631.0	155.4	0.1611 ug/L	0.1611 ppb	23:53:35
3	Mo 202.031†	6.2	3.5	0.2366 ug/L	0.2366 ppb	23:53:35
3	Ni 231.604†	90.6	9.8	0.2234 ug/L	0.2234 ppb	23:53:35
3	P 214.914†	226.9	-1.5	-0.8187 ug/L	-0.8187 ppb	23:53:35
3	Pb 220.353†	-77.9	-8.8	-0.9598 ug/L	-0.9598 ppb	23:53:35
3	S 181.975 Axial†	46.8	-3.9	-4.6848 ug/L	-4.6848 ppb	23:53:35
3	Sb 206.836†	48.1	13.8	4.2506 ug/L	4.2506 ppb	23:53:35
3	Se 196.026†	-26.8	2.0	1.0180 ug/L	1.0180 ppb	23:53:35
3	Si 251.611†	565.3	90.8	2.6991 ug/L	2.6991 ppb	23:53:35
3	Sn 189.927†	13.1	-4.2	-0.6867 ug/L	-0.6867 ppb	23:53:35
3	Ti 334.940†	-1741.4	-93.3	-0.1298 ug/L	-0.1298 ppb	23:53:15
3	Tl 190.801†	-37.4	4.8	1.3848 ug/L	1.3848 ppb	23:53:35
3	U 409.014†	-4434.6	-228.3	-7.4047 ug/L	-7.4047 ppb	23:53:15
3	V 292.402†	-1834.5	-175.7	-1.2285 ug/L	-1.2285 ppb	23:53:15
3	Zn 213.857†	705.4	-20.8	-0.1773 ug/L	-0.1773 ppb	23:53:35
3	SiO2†	550.3	32.6	2.0714 ug/L	2.0714 ppb	23:53:50

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	842413.9	97.416 %		0.2813			0.29%
Sc Radial	3735.2	94.3 %		0.10			0.11%
Y 371.029	665589.4	97.581 %		0.1894			0.19%
Y RADIAL	4179.4	92.09 %		1.105			1.20%
Ag 328.068†	12.8	0.0602 ug/L		0.16702	0.0602 ppb	0.16702	277.38%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-11.7	-10.555 ug/L		3.6327	-10.555 ppb	3.6327	34.42%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	9.3	3.5629 ug/L		0.77899	3.5629 ppb	0.77899	21.86%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-10.1	-0.2142 ug/L		0.69163	-0.2142 ppb	0.69163	322.83%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	5.9	0.0428 ug/L		0.10852	0.0428 ppb	0.10852	253.63%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	35.7	0.0120 ug/L		0.00986	0.0120 ppb	0.00986	82.10%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	0.9	1.7315 ug/L		3.13199	1.7315 ppb	3.13199	180.89%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	-13.7	-0.1438 ug/L	0.11003	-0.1438 ppb	0.11003	76.50%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-6.1	-0.1109 ug/L	0.13453	-0.1109 ppb	0.13453	121.31%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-39.3	-0.4181 ug/L	0.31996	-0.4181 ppb	0.31996	76.53%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	206.3	0.5958 ug/L	0.12748	0.5958 ppb	0.12748	21.40%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.1	0.9586 ug/L	25.66228	0.9586 ppb	25.66228	>999.9%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	305.5	53.275 ug/L	12.9281	53.275 ppb	12.9281	24.27%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-2.0	-87.153 ug/L	26.2109	-87.153 ppb	26.2109	30.07%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	163.3	0.1708 ug/L	0.01284	0.1708 ppb	0.01284	7.52%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	9.1	0.6211 ug/L	0.33340	0.6211 ppb	0.33340	53.68%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-106.9	-30.641 ug/L	10.2086	-30.641 ppb	10.2086	33.32%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	16.6	0.3773 ug/L	0.19982	0.3773 ppb	0.19982	52.97%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-0.7	-0.4672 ug/L	5.07916	-0.4672 ppb	5.07916	>999.9%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-5.7	-0.6227 ug/L	2.24783	-0.6227 ppb	2.24783	360.97%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-4.5	-5.4025 ug/L	4.27424	-5.4025 ppb	4.27424	79.12%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	13.3	4.0911 ug/L	2.97269	4.0911 ppb	2.97269	72.66%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	6.8	3.6861 ug/L	2.45208	3.6861 ppb	2.45208	66.52%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	92.4	2.7405 ug/L	0.07537	2.7405 ppb	0.07537	2.75%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-4.4	-0.7146 ug/L	0.72533	-0.7146 ppb	0.72533	101.50%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	15.5	0.1045 ug/L	0.06407	0.1045 ppb	0.06407	61.30%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-51.0	-0.0680 ug/L	0.07177	-0.0680 ppb	0.07177	105.59%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	2.4	0.6962 ug/L	1.28951	0.6962 ppb	1.28951	185.21%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-200.1	-6.4916 ug/L	1.36054	-6.4916 ppb	1.36054	20.96%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-128.5	-0.8973 ug/L	0.34318	-0.8973 ppb	0.34318	38.24%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-11.8	-0.1046 ug/L	0.07792	-0.1046 ppb	0.07792	74.47%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	103.3	6.5784 ug/L	4.29926	6.5784 ppb	4.29926	65.35%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

ICPMS #6 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Saturday, February 13, 2010 21:03:50

Sample Description:

Method File: C:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\100204\Sample.828

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		2680.9	2680.852		72.600	2.7
Mg	24.0		28257.5	28257.523		376.216	1.3
Co	58.9		38357.6	38357.635		530.885	1.4
Rh	102.9		67484.8	67484.841		837.127	1.2
In	114.9		74146.7	74146.750		982.801	1.3
Pb	208.0		36874.3	36874.333		374.637	1.0
[> Ba	137.9		66161.5	66161.503		1402.619	2.1
[Ba++	69.0		2239.3	0.034		0.001	1.8
[> Ce	139.9		88689.1	88689.057		525.789	0.6
[CeO	155.9		2380.7	0.027		0.000	1.7
Bkgd	220.0		9.6	9.600		0.742	7.7

Current Optimization File Data

Current Value	Description
0.81	Nebulizer Gas Flow
14.00	Lens Voltage
1450.00	ICP RF Power
-1781.25	Analog Stage Voltage
900.00	Pulse Stage Voltage
40.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	21	9.5	2667.9
Co	59	21	10.3	22492.4
In	115	21	11.5	46343.4

ICPMS #6 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	583	2080	0.652
Be	9.0	9.0	2031	2080	0.664
Mg	24.0	24.0	5680	2120	0.658
Mg	25.0	25.1	5909	2080	0.706
Mg	26.0	26.1	6176	2120	0.692
Co	58.9	59.0	14164	2170	0.635
Rh	102.9	102.9	24856	2230	0.691
In	114.9	114.9	27788	2260	0.678
Ce	139.9	139.9	33846	2280	0.735
Pb	206.0	205.9	49948	2433	0.721
Pb	207.0	206.9	50123	2385	0.677
Pb	208.0	208.0	50451	2430	0.703
U	238.1	238.0	57724	2470	0.692

ICPMS#6 - Summary Report

Sample ID: Blank

Sample Date/Time: Sunday, February 14, 2010 05:01:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\Blank.124

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7		ug/L		55	
Be	9		ug/L		5	
B	11		ug/L		795	
Na	23		ug/L		12005	
Mg	24		ug/L		4667	
Al	27		ug/L		2667	
P	31		ug/L		7165	
K	39		ug/L		502707	
Ca	43		ug/L		523	
> Sc	45		ug/L		778878	
V	51		ug/L		-6397	
Cr	52		ug/L		476	
Cr	53		ug/L		186165	
Mn	55		ug/L		1408	
Fe	57		ug/L		4235	
Co	59		ug/L		165	
Ni	60		ug/L		59	
Cu	63		ug/L		144	
Cu	65		ug/L		98	
Zn	66		ug/L		95	
Zn	67		ug/L		10603	
Zn	68		ug/L		1067	
> Ge	74		ug/L		164633	
As	75		ug/L		-417	
Se	77		ug/L		9721	
Se	82		ug/L		-6	
Kr	83		ug/L		61	
Sr	88		ug/L		80	
Y	89		ug/L		29	
Ag	107		ug/L		27	
Cd	111		ug/L		12	
Cd	114		ug/L		15	
> In	115		ug/L		81412	
Sn	120		ug/L		138	
Sb	121		ug/L		284	
Sb	123		ug/L		232	
Ba	135		ug/L		13	
Ba	137		ug/L		21	
Ho	165		ug/L		10	
> Lu	175		ug/L		89633	
Tl	205		ug/L		82	
Pb	208		ug/L		232	
Bi	209		ug/L		16	
U	238		ug/L		87	

Sample ID: Blank

Report Date/Time: Sunday, February 14, 2010 05:04:07

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Simple Linear	
Be	9Simple Linear	
B	11Simple Linear	
Na	23Simple Linear	
Mg	24Simple Linear	
Al	27Simple Linear	
P	31Simple Linear	
K	39Simple Linear	
Ca	43Simple Linear	
Sc	45Linear Thru Zero	
V	51Simple Linear	
Cr	52Simple Linear	
Cr	53Simple Linear	
Mn	55Simple Linear	
Fe	57Simple Linear	
Co	59Simple Linear	
Ni	60Simple Linear	
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Simple Linear	
Zn	67Simple Linear	
Zn	68Simple Linear	
Ge	74Simple Linear	
As	75Simple Linear	
Se	77Simple Linear	
Se	82Simple Linear	
Kr	83Simple Linear	
Sr	88Simple Linear	
Y	89Simple Linear	
Ag	107Simple Linear	
Cd	111Simple Linear	
Cd	114Simple Linear	
In	115Simple Linear	
Sn	120Simple Linear	
Sb	121Simple Linear	
Sb	123Simple Linear	
Ba	135Simple Linear	
Ba	137Simple Linear	
Ho	165Simple Linear	
Lu	175Simple Linear	
Tl	205Simple Linear	
Pb	208Simple Linear	
Bi	209Simple Linear	
U	238Simple Linear	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
|>	Sc	45				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
|	Zn	66				
|	Zn	67				
|	Zn	68				
|>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Ag	107				
|	Cd	111				
|	Cd	114				
|>	In	115				
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
|>	Lu	175				
|	Tl	205				
|	Pb	208				
|	Bi	209				
	U	238				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Sunday, February 14, 2010 05:07:29

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\Standard 1.125

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	10.000	ug/L	1.991	8106	0.010
Be	9	10.000	ug/L	3.106	3109	0.004
B	11	20.000	ug/L	1.185	6444	0.007
Na	23	1000.000	ug/L	2.045	3267454	3.954
Mg	24	1000.000	ug/L	1.765	2363086	2.864
Al	27	1000.000	ug/L	10.134	2858133	3.468
P	31	1000.000	ug/L	1.111	155378	0.180
K	39	1000.000	ug/L	6.415	3449350	3.543
Ca	43	1000.000	ug/L	3.694	7048	0.008
> Sc	45		ug/L		823301	823301.422
V	51	10.000	ug/L	0.213	26079	0.040
Cr	52	10.000	ug/L	0.552	23669	0.028
Cr	53		ug/L		147443	-0.060
Mn	55	10.000	ug/L	1.147	39110	0.046
Fe	57	1000.000	ug/L	1.228	78490	0.090
Co	59	10.000	ug/L	2.463	26581	0.032
Ni	60	10.000	ug/L	2.077	5452	0.007
Cu	63		ug/L		11954	0.014
Cu	65	10.000	ug/L	1.708	5757	0.007
Zn	66	10.000	ug/L	1.455	4066	0.023
Zn	67		ug/L		8649	-0.014
Zn	68		ug/L		3680	0.015
> Ge	74		ug/L		172322	172322.148
As	75	10.000	ug/L	5.918	4994	0.032
Se	77		ug/L		7502	-0.016
Se	82	10.000	ug/L	3.043	413	0.002
Kr	83		ug/L		66	0.000
Sr	88	10.000	ug/L	1.056	49594	0.574
Y	89		ug/L		31	-0.000
Ag	107	10.000	ug/L	0.239	17977	0.208
Cd	111	10.000	ug/L	1.051	4314	0.050
Cd	114		ug/L		9777	0.113
> In	115		ug/L		86310	86309.853
Sn	120	10.000	ug/L	1.814	17044	0.196
Sb	121	10.000	ug/L	11.934	11685	0.132
Sb	123		ug/L		9046	0.102
Ba	135		ug/L		4102	0.043
Ba	137	10.000	ug/L	2.176	7135	0.075
Ho	165		ug/L		10	-0.000
> Lu	175		ug/L		94799	94798.825
Tl	205	10.000	ug/L	0.430	26472	0.278
Pb	208	10.000	ug/L	0.859	43103	0.452
Bi	209		ug/L		23	0.000
U	238	10.000	ug/L	0.792	43216	0.455

Sample ID: Standard 1

Report Date/Time: Sunday, February 14, 2010 05:09:59

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
|>	Sc	45				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
|	Zn	66				
|	Zn	67				
|	Zn	68				
|>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Ag	107				
|	Cd	111				
|	Cd	114				
|>	In	115				
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
|>	Lu	175				
|	Tl	205				
|	Pb	208				
|	Bi	209				
|	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#6 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Sunday, February 14, 2010 05:13:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\Standard 2.126

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	99.996	ug/L	0.521	73228	0.097
Be	9	100.013	ug/L	1.057	28722	0.038
B	11	200.063	ug/L	2.020	53619	0.070
Na	23	10008.851	ug/L	8.867	32718135	43.413
Mg	24	9994.216	ug/L	11.091	20373318	27.061
Al	27	9997.942	ug/L	3.088	25537606	33.970
P	31	9997.350	ug/L	1.911	1320962	1.748
K	39	10010.841	ug/L	7.368	30348657	39.782
Ca	43	10005.790	ug/L	1.215	63503	0.084
> Sc	45		ug/L		751906	751906.267
V	51	99.864	ug/L	1.101	257560	0.351
Cr	52	100.070	ug/L	1.300	227989	0.303
Cr	53		ug/L		158589	-0.028
Mn	55	100.023	ug/L	0.563	352893	0.468
Fe	57	9998.564	ug/L	1.238	670203	0.886
Co	59	100.029	ug/L	2.033	248530	0.330
Ni	60	100.041	ug/L	2.096	51367	0.068
Cu	63		ug/L		113299	0.151
Cu	65	100.050	ug/L	1.555	54462	0.072
Zn	66	100.029	ug/L	0.719	37648	0.237
Zn	67		ug/L		13504	0.021
Zn	68		ug/L		26857	0.163
> Ge	74		ug/L		158366	158366.260
As	75	99.922	ug/L	1.108	45864	0.292
Se	77		ug/L		9195	-0.001
Se	82	100.091	ug/L	3.154	4240	0.027
Kr	83		ug/L		54	-0.000
Sr	88	100.012	ug/L	0.774	460099	5.805
Y	89		ug/L		75	0.001
Ag	107	100.019	ug/L	1.604	168080	2.121
Cd	111	100.043	ug/L	2.498	41281	0.521
Cd	114		ug/L		92457	1.166
> In	115		ug/L		79247	79247.393
Sn	120	100.050	ug/L	0.565	163497	2.062
Sb	121	100.197	ug/L	13.051	130481	1.646
Sb	123		ug/L		100614	1.269
Ba	135		ug/L		40220	0.442
Ba	137	100.022	ug/L	0.275	69747	0.767
Ho	165		ug/L		11	0.000
> Lu	175		ug/L		90863	90863.394
Tl	205	99.994	ug/L	1.001	251427	2.766
Pb	208	99.986	ug/L	1.150	405128	4.457
Bi	209		ug/L		51	0.000
U	238	99.947	ug/L	1.189	392357	4.318

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
|>	Sc	45					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
|>	Ge	74					
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115					
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
|>	Lu	175					
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	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#6 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Sunday, February 14, 2010 05:19:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nolsr thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 1.127

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	49.390	ug/L	0.791	36195	0.048
Be	9	49.628	ug/L	0.753	14258	0.019
B	11	101.653	ug/L	1.989	27626	0.036
Na	23	4451.601	ug/L	5.647	14522239	19.309
Mg	24	4896.701	ug/L	3.894	9971833	13.259
Al	27	4734.982	ug/L	7.716	12096956	16.088
P	31	5134.307	ug/L	0.633	681991	0.898
K	39	4849.281	ug/L	21.648	14949524	19.271
Ca	43	4868.593	ug/L	2.155	31158	0.041
> Sc	45		ug/L		751845	751844.895
V	51	50.577	ug/L	1.418	127393	0.178
Cr	52	49.911	ug/L	0.188	113965	0.151
Cr	53		ug/L		147917	-0.042
Mn	55	50.325	ug/L	1.680	178256	0.235
Fe	57	4964.300	ug/L	0.449	334888	0.440
Co	59	48.486	ug/L	0.721	120598	0.160
Ni	60	50.617	ug/L	1.428	26030	0.035
Cu	63		ug/L		56670	0.075
Cu	65	49.609	ug/L	0.847	27056	0.036
Zn	66	50.501	ug/L	1.895	19084	0.120
Zn	67		ug/L		10326	0.001
Zn	68		ug/L		14180	0.083
> Ge	74		ug/L		158649	158649.241
As	75	46.586	ug/L	1.060	21206	0.136
Se	77		ug/L		7612	-0.011
Se	82	48.596	ug/L	1.707	2058	0.013
Kr	83		ug/L		55	-0.000
Sr	88	50.428	ug/L	1.855	233829	2.927
Y	89		ug/L		52	0.000
Ag	107	50.190	ug/L	1.964	85024	1.064
Cd	111	48.037	ug/L	2.069	19981	0.250
Cd	114		ug/L		46074	0.577
> In	115		ug/L		79868	79867.703
Sn	120	49.503	ug/L	1.553	81602	1.020
Sb	121	47.666	ug/L	13.406	62825	0.783
Sb	123		ug/L		48574	0.605
Ba	135		ug/L		19980	0.219
Ba	137	49.093	ug/L	0.871	34405	0.377
Ho	165		ug/L		17	0.000
> Lu	175		ug/L		91299	91299.431
Tl	205	48.163	ug/L	0.823	121700	1.332
Pb	208	50.204	ug/L	0.162	204548	2.238
Bi	209		ug/L		56	0.000
U	238	53.484	ug/L	1.542	211019	2.311

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
|	Li	7	98.780				
|	Be	9	99.256				
|	B	11	101.653				
|	Na	23	89.032				
|	Mg	24	97.934				
|	Al	27	93.762				
|	P	31	102.686				
|	K	39	96.986				
|	Ca	43	97.372				
>	Sc	45		96.5			
|	V	51	101.154				
|	Cr	52	99.822				
|	Cr	53					
|	Mn	55	100.649				
|	Fe	57	99.286				
|	Co	59	96.971				
|	Ni	60	101.235				
|	Cu	63					
|	Cu	65	99.218				
|	Zn	66	101.001				
|	Zn	67					
|	Zn	68					
>	Ge	74		96.4			
|	As	75	93.171				
|	Se	77					
|	Se	82	97.192				
|	Kr	83					
|	Sr	88	100.856				
|	Y	89					
|	Ag	107	100.379				
|	Cd	111	96.075				
|	Cd	114					
>	In	115		98.1			
|	Sn	120	99.006				
|	Sb	121	95.332				
|	Sb	123					
|	Ba	135					
|	Ba	137	98.187				
|	Ho	165					
>	Lu	175		101.9			
|	Tl	205	96.326				
|	Pb	208	100.407				
|	Bi	209					
|	U	238	106.968				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 1	Na	23	23ICV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Sunday, February 14, 2010 05:25:08

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 2.128

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.027	ug/L	56.836	72	0.000
Be	9	-0.005	ug/L	107.948	4	-0.000
B	11	3.281	ug/L	18.212	1610	0.001
Na	23	0.296	ug/L	82.614	12339	0.001
Mg	24	-1.394	ug/L	72.626	1667	-0.004
Al	27	-0.352	ug/L	169.552	1667	-0.001
P	31	-1.892	ug/L	118.105	6554	-0.000
K	39	-1.348	ug/L	786.504	473409	-0.005
Ca	43	3.225	ug/L	100.471	517	0.000
> Sc	45		ug/L		739512	739511.767
V	51	0.669	ug/L	206.018	-4386	0.002
Cr	52	-0.219	ug/L	50.677	-37	-0.001
Cr	53		ug/L		174443	-0.003
Mn	55	-0.024	ug/L	10.868	1255	-0.000
Fe	57	6.699	ug/L	14.599	4460	0.001
Co	59	0.002	ug/L	285.414	163	0.000
Ni	60	0.005	ug/L	215.275	58	0.000
Cu	63		ug/L		106	-0.000
Cu	65	-0.015	ug/L	127.587	85	-0.000
Zn	66	0.038	ug/L	70.310	104	0.000
Zn	67		ug/L		9732	-0.002
Zn	68		ug/L		984	-0.000
> Ge	74		ug/L		156611	156611.377
As	75	0.061	ug/L	1491.162	-367	0.000
Se	77		ug/L		8763	-0.003
Se	82	-0.095	ug/L	126.671	-10	-0.000
Kr	83		ug/L		66	0.000
Sr	88	-0.001	ug/L	103.963	73	-0.000
Y	89		ug/L		23	-0.000
Ag	107	0.003	ug/L	116.586	32	0.000
Cd	111	0.005	ug/L	632.718	14	0.000
Cd	114		ug/L		23	0.000
> In	115		ug/L		78194	78193.537
Sn	120	0.513	ug/L	13.302	960	0.011
Sb	121	2.654	ug/L	25.709	3694	0.044
Sb	123		ug/L		2861	0.034
Ba	135		ug/L		15	0.000
Ba	137	0.002	ug/L	534.693	22	0.000
Ho	165		ug/L		12	0.000
> Lu	175		ug/L		86711	86710.559
Tl	205	0.095	ug/L	16.590	307	0.003
Pb	208	-0.001	ug/L	189.805	221	-0.000
Bi	209		ug/L		16	0.000
U	238	0.076	ug/L	21.964	369	0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
|	Li	7					
|	Be	9					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
>	Sc	45			94.9		
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74			95.1		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115			96.0		
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175			96.7		
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	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#6 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Sunday, February 14, 2010 05:31:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 3.129

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	11.052	ug/L	0.828	8413	0.011
Be	9	0.559	ug/L	6.716	171	0.000
B	11	16.005	ug/L	1.433	5165	0.006
Na	23	258.382	ug/L	9.818	882972	1.121
Mg	24	18.432	ug/L	15.667	43400	0.050
Al	27	36.255	ug/L	5.906	98338	0.123
P	31	43.063	ug/L	3.699	12998	0.008
K	39	291.963	ug/L	14.087	1402184	1.160
Ca	43	215.879	ug/L	3.285	1927	0.002
> Sc	45		ug/L		777023	777022.930
V	51	12.413	ug/L	10.916	27489	0.044
Cr	52	10.270	ug/L	1.606	24616	0.031
Cr	53		ug/L		143394	-0.054
Mn	55	5.640	ug/L	1.173	21891	0.026
Fe	57	108.529	ug/L	3.206	11697	0.010
Co	59	1.108	ug/L	2.957	3009	0.004
Ni	60	2.203	ug/L	4.525	1226	0.002
Cu	63		ug/L		1416	0.002
Cu	65	1.087	ug/L	3.766	708	0.001
Zn	66	11.029	ug/L	2.039	4358	0.026
Zn	67		ug/L		8341	-0.013
Zn	68		ug/L		3811	0.017
> Ge	74		ug/L		163114	163114.342
As	75	5.860	ug/L	12.879	2380	0.017
Se	77		ug/L		6664	-0.018
Se	82	5.487	ug/L	2.493	234	0.001
Kr	83		ug/L		57	-0.000
Sr	88	11.452	ug/L	1.136	54528	0.665
Y	89		ug/L		31	0.000
Ag	107	1.002	ug/L	0.668	1768	0.021
Cd	111	1.034	ug/L	4.076	454	0.005
Cd	114		ug/L		1050	0.013
> In	115		ug/L		81914	81914.091
Sn	120	5.289	ug/L	2.261	9065	0.109
Sb	121	2.998	ug/L	9.158	4317	0.049
Sb	123		ug/L		3481	0.040
Ba	135		ug/L		869	0.009
Ba	137	2.101	ug/L	3.427	1505	0.016
Ho	165		ug/L		12	0.000
> Lu	175		ug/L		91997	91996.857
Tl	205	1.098	ug/L	0.804	2877	0.030
Pb	208	2.224	ug/L	1.443	9359	0.099
Bi	209		ug/L		30	0.000
U	238	0.246	ug/L	2.198	1068	0.011

Sample ID: QC Std 3

Report Date/Time: Sunday, February 14, 2010 05:33:32

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recov	Dilution	% Dil	Duplicate	Rel. % Difference
[	Li	7		110.519								
|	Be	9		111.832								
|	B	11		106.700								
|	Na	23		103.353								
|	Mg	24		122.878								
|	Al	27		120.851								
|	P	31		86.126								
|	K	39		97.321								
|	Ca	43		107.939								
>	Sc	45				99.8						
|	V	51		124.129								
|	Cr	52		102.704								
|	Cr	53										
|	Mn	55		112.804								
|	Fe	57		108.529								
|	Co	59		110.821								
|	Ni	60		110.145								
|	Cu	63										
|	Cu	65		108.674								
[	Zn	66		110.286								
|	Zn	67										
|	Zn	68										
>	Ge	74				99.1						
|	As	75		117.207								
|	Se	77										
|	Se	82		109.735								
|	Kr	83										
[	Sr	88		114.520								
|	Y	89										
|	Ag	107		100.194								
|	Cd	111		103.427								
|	Cd	114										
>	In	115				100.6						
|	Sn	120		105.779								
|	Sb	121		99.948								
|	Sb	123										
[	Ba	135										
|	Ba	137		105.065								
|	Ho	165										
>	Lu	175				102.6						
|	Tl	205		109.758								
|	Pb	208		111.205								
|	Bi	209										
|	U	238		123.208								

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Sunday, February 14, 2010 05:36:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 4.130

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.122 ug/L	34.518	117	0.000
|	Be	9	0.067 ug/L	49.174	20	0.000
|	B	11	1.464 ug/L	5.854	955	0.001
|	Na	23	95381.143 ug/L	5.623	257179757	413.711
|	Mg	24	99576.428 ug/L	5.686	167611161	269.623
|	Al	27	100388.234 ug/L	12.800	212021521	341.086
|	P	31	113617.989 ug/L	2.528	12360801	19.870
|	K	39	96368.187 ug/L	8.746	238405564	382.958
|	Ca	43	93911.486 ug/L	0.055	489566	0.786
>	Sc	45	ug/L		621937	621936.607
|	V	51	4.036 ug/L	14.608	3699	0.014
|	Cr	52	1.797 ug/L	3.399	3762	0.005
|	Cr	53	ug/L		114028	-0.056
|	Mn	55	5.938 ug/L	1.522	18391	0.028
|	Fe	57	92013.017 ug/L	1.083	5074726	8.155
|	Co	59	0.376 ug/L	8.507	904	0.001
|	Ni	60	4.142 ug/L	3.557	1805	0.003
|	Cu	63	ug/L		2889	0.004
|	Cu	65	6.301 ug/L	2.187	2912	0.005
[	Zn	66	7.251 ug/L	2.417	2303	0.017
|	Zn	67	ug/L		7031	-0.010
|	Zn	68	ug/L		986	0.001
>	Ge	74	ug/L		129602	129601.534
|	As	75	0.956 ug/L	67.129	35	0.003
|	Se	77	ug/L		5504	-0.017
|	Se	82	-1.950 ug/L	3.101	-72	-0.001
|	Kr	83	ug/L		147	0.001
[	Sr	88	3.034 ug/L	1.913	12004	0.176
|	Y	89	ug/L		151	0.002
|	Ag	107	0.481 ug/L	49.263	714	0.010
|	Cd	111	1.347 ug/L	64.245	486	0.007
|	Cd	114	ug/L		3575	0.053
>	In	115	ug/L		67797	67797.207
|	Sn	120	0.539 ug/L	3.896	867	0.011
|	Sb	121	0.607 ug/L	30.975	912	0.010
|	Sb	123	ug/L		767	0.008
[	Ba	135	ug/L		311	0.004
|	Ba	137	0.783 ug/L	13.924	494	0.006
|	Ho	165	ug/L		1715	0.022
>	Lu	175	ug/L		79005	79004.684
|	Tl	205	0.027 ug/L	14.114	131	0.001
|	Pb	208	0.248 ug/L	4.139	1077	0.011
|	Bi	209	ug/L		562	0.007
|	U	238	-0.000 ug/L	432.098	75	-0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
|	Li	7					
|	Be	9					
|	B	11					
|	Na	23	95.381				
|	Mg	24	99.576				
|	Al	27	100.388				
|	P	31	113.618				
|	K	39	96.368				
|	Ca	43	93.911				
>	Sc	45		79.9			
|	V	51					
|	Cr	52	54.463				
|	Cr	53					
|	Mn	55	102.380				
|	Fe	57	92.013				
|	Co	59	159.929				
|	Ni	60	125.124				
|	Cu	63					
|	Cu	65	188.641				
|	Zn	66	192.837				
|	Zn	67					
|	Zn	68					
>	Ge	74		78.7			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88	102.497				
|	Y	89					
|	Ag	107					
|	Cd	111	303.279				
|	Cd	114					
>	In	115		83.3			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137	98.177				
|	Ho	165					
>	Lu	175		88.1			
|	Tl	205					
|	Pb	208	131.145				
|	Bi	209					
|	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
Sc 45 Int Std for QC Sc		45		
QC Std 4	Cu	65	ICSA	is out of limits
	Ge	74		

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Sunday, February 14, 2010 05:42:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 5.131

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	21.366	ug/L	3.410	12424	0.021
Be	9	21.346	ug/L	3.427	4858	0.008
B	11	22.338	ug/L	5.766	5281	0.008
Na	23	103213.398	ug/L	13.093	266183585	447.683
Mg	24	106079.045	ug/L	2.039	171110872	287.230
Al	27	106275.129	ug/L	0.581	215109789	361.087
P	31	117646.580	ug/L	2.034	12257754	20.574
K	39	100905.896	ug/L	3.048	239304783	400.991
Ca	43	96426.086	ug/L	1.046	481401	0.808
> Sc	45		ug/L		595697	595696.824
V	51	26.619	ug/L	3.912	50776	0.094
Cr	52	24.445	ug/L	2.805	44392	0.074
Cr	53		ug/L		121525	-0.035
Mn	55	28.075	ug/L	1.763	79241	0.131
Fe	57	96421.263	ug/L	2.131	5092017	8.546
Co	59	22.013	ug/L	1.766	43443	0.073
Ni	60	25.588	ug/L	1.123	10447	0.017
Cu	63		ug/L		21809	0.036
Cu	65	26.918	ug/L	3.432	11662	0.019
Zn	66	28.098	ug/L	1.008	8336	0.067
Zn	67		ug/L		8450	0.004
Zn	68		ug/L		5307	0.036
> Ge	74		ug/L		124062	124062.291
As	75	23.553	ug/L	1.626	8231	0.069
Se	77		ug/L		6314	-0.008
Se	82	20.266	ug/L	5.037	669	0.005
Kr	83		ug/L		137	0.001
Sr	88	26.431	ug/L	1.437	98173	1.534
Y	89		ug/L		159	0.002
Ag	107	21.966	ug/L	0.982	29813	0.466
Cd	111	22.292	ug/L	0.883	7431	0.116
Cd	114		ug/L		19706	0.308
> In	115		ug/L		63973	63972.700
Sn	120	23.455	ug/L	1.896	31015	0.483
Sb	121	27.837	ug/L	3.681	29455	0.457
Sb	123		ug/L		22699	0.352
Ba	135		ug/L		7663	0.102
Ba	137	22.697	ug/L	2.049	13099	0.174
Ho	165		ug/L		1722	0.023
> Lu	175		ug/L		75134	75133.516
Tl	205	20.749	ug/L	0.468	43189	0.574
Pb	208	21.854	ug/L	1.777	73377	0.974
Bi	209		ug/L		662	0.009
U	238	23.647	ug/L	2.117	76811	1.022

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Dil	Duplicate	Rel. % Difference
Li	7		106.832								
Be	9		106.731								
B	11		111.692								
Na	23		103.213								
Mg	24		106.079								
Al	27		106.275								
P	31		117.647								
K	39		100.906								
Ca	43		96.426								
> Sc	45					76.5					
V	51		133.093								
Cr	52		104.915								
Cr	53										
Mn	55		108.818								
Fe	57		96.421								
Co	59		108.707								
Ni	60		109.774								
Cu	63										
Cu	65		117.544								
Zn	66		118.258								
Zn	67										
Zn	68										
> Ge	74					75.4					
As	75		117.766								
Se	77										
Se	82		101.328								
Kr	83										
Sr	88		115.118								
Y	89										
Ag	107		109.831								
Cd	111		109.039								
Cd	114										
> In	115					78.6					
Sn	120		117.277								
Sb	121		139.187								
Sb	123										
Ba	135										
Ba	137		109.805								
Ho	165										
> Lu	175					83.8					
Tl	205		103.745								
Pb	208		108.186								
Bi	209										
U	238		118.233								

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sc 45 Int Std for QC Sc		45	
QC Std 5	V	51	ICSAB is out of limits
	Ge	74	
	In	115	
QC Std 5	Sb	121	ICSAB is out of limits

QC Action

QC Action Line: Continue

Sample ID: QC Std 5

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, February 14, 2010 05:48:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimazr.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 6.132

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	47.231	ug/L	1.902	32510	0.046
Be	9	48.659	ug/L	1.582	13127	0.019
B	11	96.517	ug/L	2.777	24673	0.034
Na	23	4663.557	ug/L	0.222	14294369	20.228
Mg	24	4989.466	ug/L	9.493	9538275	13.510
Al	27	4766.347	ug/L	5.420	11434389	16.194
P	31	5150.935	ug/L	2.153	642485	0.901
K	39	4745.821	ug/L	3.450	13772811	18.859
Ca	43	4820.701	ug/L	2.333	28980	0.040
> Sc	45		ug/L		706122	706122.468
V	51	53.395	ug/L	1.870	126634	0.188
Cr	52	50.314	ug/L	1.539	107896	0.152
Cr	53		ug/L		142271	-0.038
Mn	55	50.180	ug/L	0.664	166910	0.235
Fe	57	5098.711	ug/L	0.707	322911	0.452
Co	59	50.075	ug/L	0.554	116963	0.165
Ni	60	51.549	ug/L	1.682	24893	0.035
Cu	63		ug/L		53953	0.076
Cu	65	50.770	ug/L	2.887	25999	0.037
Zn	66	51.025	ug/L	0.730	18165	0.121
Zn	67		ug/L		10079	0.003
Zn	68		ug/L		13556	0.084
> Ge	74		ug/L		149462	149461.934
As	75	47.798	ug/L	0.847	20509	0.140
Se	77		ug/L		7242	-0.011
Se	82	49.393	ug/L	1.908	1971	0.013
Kr	83		ug/L		58	0.000
Sr	88	51.053	ug/L	0.586	224484	2.963
Y	89		ug/L		63	0.000
Ag	107	50.537	ug/L	0.624	81182	1.072
Cd	111	48.281	ug/L	1.051	19042	0.251
Cd	114		ug/L		44288	0.585
> In	115		ug/L		75734	75734.159
Sn	120	49.841	ug/L	0.599	77904	1.027
Sb	121	45.623	ug/L	16.920	56948	0.749
Sb	123		ug/L		44281	0.583
Ba	135		ug/L		19240	0.221
Ba	137	50.006	ug/L	2.627	33451	0.384
Ho	165		ug/L		13	0.000
> Lu	175		ug/L		87149	87148.553
Tl	205	48.894	ug/L	2.269	117928	1.352
Pb	208	50.996	ug/L	2.591	198312	2.273
Bi	209		ug/L		55	0.000
U	238	54.417	ug/L	1.547	204961	2.351

Sample ID: QC Std 6

Report Date/Time: Sunday, February 14, 2010 05:51:14

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7	94.463				
Be	9	97.318				
B	11	96.517				
Na	23	93.271				
Mg	24	99.789				
Al	27	94.383				
P	31	103.019				
K	39	94.916				
Ca	43	96.414				
> Sc	45		90.7			
V	51	106.791				
Cr	52	100.627				
Cr	53					
Mn	55	100.359				
Fe	57	101.974				
Co	59	100.150				
Ni	60	103.099				
Cu	63					
Cu	65	101.540				
Zn	66	102.050				
Zn	67					
Zn	68					
> Ge	74		90.8			
As	75	95.596				
Se	77					
Se	82	98.787				
Kr	83					
Sr	88	102.107				
Y	89					
Ag	107	101.073				
Cd	111	96.563				
Cd	114					
> In	115		93.0			
Sn	120	99.681				
Sb	121	91.246				
Sb	123					
Ba	135					
Ba	137	100.012				
Ho	165					
> Lu	175		97.2			
Tl	205	97.789				
Pb	208	101.992				
Bi	209					
U	238	108.834				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, February 14, 2010 05:54:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 7.133

Concentration Results

Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.066	ug/L		21.687	93	0.000
Be	9	-0.002	ug/L		720.919	4	-0.000
B	11	2.138	ug/L		16.548	1232	0.001
Na	23	3.308	ug/L		14.921	20682	0.014
Mg	24	0.980	ug/L		189.017	6002	0.003
Al	27	2.382	ug/L		17.770	8002	0.008
P	31	-3.007	ug/L		23.849	6026	-0.001
K	39	13.295	ug/L		73.973	485114	0.053
Ca	43	11.988	ug/L		92.677	537	0.000
> Sc	45		ug/L			694808	694807.893
V	51	1.728	ug/L		110.952	-1489	0.006
Cr	52	-1.045	ug/L		10.506	-1771	-0.003
Cr	53		ug/L			169691	0.005
Mn	55	-0.035	ug/L		30.370	1143	-0.000
Fe	57	11.593	ug/L		2.820	4492	0.001
Co	59	0.011	ug/L		58.023	173	0.000
Ni	60	0.017	ug/L		70.361	60	0.000
Cu	63		ug/L			106	-0.000
Cu	65	0.013	ug/L		153.934	94	0.000
Zn	66	0.043	ug/L		79.149	100	0.000
Zn	67		ug/L			9252	-0.002
Zn	68		ug/L			884	-0.000
> Ge	74		ug/L			147324	147323.631
As	75	1.542	ug/L		43.225	289	0.005
Se	77		ug/L			8523	-0.001
Se	82	0.008	ug/L		4167.276	-5	0.000
Kr	83		ug/L			56	0.000
Sr	88	0.003	ug/L		7.257	87	0.000
Y	89		ug/L			26	-0.000
Ag	107	0.001	ug/L		164.707	27	0.000
Cd	111	0.002	ug/L		351.590	12	0.000
Cd	114		ug/L			18	0.000
> In	115		ug/L			74011	74010.776
Sn	120	0.382	ug/L		17.076	708	0.008
Sb	121	2.127	ug/L		32.040	2843	0.035
Sb	123		ug/L			2181	0.027
Ba	135		ug/L			11	-0.000
Ba	137	0.000	ug/L		1159.641	20	0.000
Ho	165		ug/L			12	0.000
> Lu	175		ug/L			82802	82801.812
Tl	205	0.091	ug/L		22.155	285	0.003
Pb	208	0.003	ug/L		21.289	225	0.000
Bi	209		ug/L			20	0.000
U	238	0.062	ug/L		25.632	303	0.003

Sample ID: QC Std 7

Report Date/Time: Sunday, February 14, 2010 05:57:11

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
|	Li	7					
|	Be	9					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
>	Sc	45		89.2			
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74		89.5			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		90.9			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		92.4			
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	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#6 - Summary Report

Sample ID: 1202021577

Sample Date/Time: Sunday, February 14, 2010 06:00:34

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\1202021577.134

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.016 ug/L	82.063	55	0.000
|	Be	9	-0.006 ug/L	75.250	3	-0.000
|	B	11	0.971 ug/L	24.758	874	0.000
|	Na	23	14.793 ug/L	6.466	51091	0.064
|	Mg	24	0.662 ug/L	84.062	5001	0.002
|	Al	27	7.396 ug/L	11.425	18345	0.025
|	P	31	44.657 ug/L	10.485	10913	0.008
|	K	39	20.750 ug/L	36.614	467191	0.082
|	Ca	43	22.505 ug/L	35.816	552	0.000
>	Sc	45	ug/L		641905	641904.944
|	V	51	3.345 ug/L	42.649	2245	0.012
|	Cr	52	0.260 ug/L	29.949	896	0.001
|	Cr	53	ug/L		129990	-0.036
|	Mn	55	0.576 ug/L	5.983	2888	0.003
|	Fe	57	60.009 ug/L	3.235	6905	0.005
|	Co	59	0.040 ug/L	9.870	221	0.000
|	Ni	60	0.465 ug/L	12.037	252	0.000
|	Cu	63	ug/L		321	0.000
|	Cu	65	0.235 ug/L	6.603	190	0.000
[	Zn	66	1.420 ug/L	3.444	524	0.003
|	Zn	67	ug/L		7101	-0.011
|	Zn	68	ug/L		1073	0.002
>	Ge	74	ug/L		133010	133009.713
|	As	75	0.501 ug/L	157.871	-140	0.001
|	Se	77	ug/L		5955	-0.014
|	Se	82	0.327 ug/L	41.171	7	0.000
[	Kr	83	ug/L		50	0.000
[	Sr	88	0.049 ug/L	3.102	253	0.003
|	Y	89	ug/L		39	0.000
|	Ag	107	0.000 ug/L	161.228	23	0.000
|	Cd	111	0.008 ug/L	217.749	13	0.000
|	Cd	114	ug/L		24	0.000
>	In	115	ug/L		66684	66684.095
|	Sn	120	0.667 ug/L	7.998	1029	0.014
|	Sb	121	0.594 ug/L	16.995	884	0.010
[	Sb	123	ug/L		694	0.008
[	Ba	135	ug/L		38	0.000
|	Ba	137	0.075 ug/L	33.475	63	0.001
|	Ho	165	ug/L		9	0.000
>	Lu	175	ug/L		77804	77804.412
|	Tl	205	0.064 ug/L	10.841	208	0.002
|	Pb	208	0.156 ug/L	9.034	743	0.007
|	Bi	209	ug/L		45	0.000
[	U	238	0.020 ug/L	41.432	144	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
|>	Sc	45	82.4			
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
|	Zn	66				
|	Zn	67				
|	Zn	68				
|>	Ge	74	80.8			
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Ag	107				
|	Cd	111				
|	Cd	114				
|>	In	115	81.9			
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
|>	Lu	175	86.8			
|	Tl	205				
|	Pb	208				
|	Bi	209				
|	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#6 - Summary Report

Sample ID: 1202021582

Sample Date/Time: Sunday, February 14, 2010 06:06:27

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 944114|40|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\1202021582.135

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	2.668	ug/L	1.879	1811	0.003
Be	9	20.443	ug/L	0.766	5309	0.008
B	11	40.941	ug/L	1.725	10467	0.014
Na	23	277.174	ug/L	7.268	826629	1.202
Mg	24	1188.692	ug/L	9.864	2189272	3.219
Al	27	2968.712	ug/L	4.636	6852096	10.087
P	31	234.759	ug/L	1.389	34137	0.041
K	39	1095.913	ug/L	1.204	3396661	4.355
Ca	43	2633.960	ug/L	1.265	15442	0.022
> Sc	45		ug/L		679280	679279.506
V	51	30.994	ug/L	2.857	68401	0.109
Cr	52	63.239	ug/L	0.522	130357	0.191
Cr	53		ug/L		178627	0.024
Mn	55	144.194	ug/L	0.091	459111	0.674
Fe	57	4598.640	ug/L	0.997	280570	0.408
Co	59	25.176	ug/L	0.780	56648	0.083
Ni	60	36.842	ug/L	0.916	17129	0.025
Cu	63		ug/L		47108	0.069
Cu	65	45.309	ug/L	1.288	22332	0.033
Zn	66	154.219	ug/L	1.218	51659	0.366
Zn	67		ug/L		16882	0.055
Zn	68		ug/L		36877	0.255
> Ge	74		ug/L		141052	141051.786
As	75	27.866	ug/L	2.192	11135	0.081
Se	77		ug/L		9929	0.011
Se	82	73.269	ug/L	0.922	2762	0.020
Kr	83		ug/L		56	0.000
Sr	88	62.487	ug/L	1.295	253693	3.627
Y	89		ug/L		15081	0.215
Ag	107	1.698	ug/L	1.042	2541	0.036
Cd	111	15.812	ug/L	1.831	5765	0.082
Cd	114		ug/L		13110	0.187
> In	115		ug/L		69940	69940.226
Sn	120	8.024	ug/L	0.995	11682	0.165
Sb	121	21.235	ug/L	1.076	24637	0.349
Sb	123		ug/L		18877	0.267
Ba	135		ug/L		18205	0.228
Ba	137	51.874	ug/L	0.101	31795	0.398
Ho	165		ug/L		595	0.007
> Lu	175		ug/L		79846	79846.363
Tl	205	32.145	ug/L	2.386	71044	0.889
Pb	208	24.054	ug/L	1.081	85819	1.072
Bi	209		ug/L		680	0.008
U	238	0.587	ug/L	3.091	2102	0.025

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
|	Li	7					
|	Be	9					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
>	Sc	45		87.2			
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74		85.7			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		85.9			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		89.1			
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	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#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, February 14, 2010 06:12:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 6.136

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	47.665	ug/L	1.964	32518	0.046
Be	9	49.189	ug/L	2.000	13154	0.019
B	11	94.496	ug/L	3.814	23952	0.033
Na	23	4610.417	ug/L	5.478	14001111	19.997
Mg	24	4996.195	ug/L	6.658	9467968	13.528
Al	27	4834.245	ug/L	10.680	11480787	16.425
P	31	5135.813	ug/L	2.021	635011	0.898
K	39	4697.525	ug/L	9.067	13502342	18.668
Ca	43	4809.599	ug/L	0.269	28669	0.040
> Sc	45		ug/L		700051	700051.169
V	51	51.108	ug/L	0.633	119939	0.180
Cr	52	49.617	ug/L	0.588	105483	0.150
Cr	53		ug/L		144158	-0.033
Mn	55	50.888	ug/L	0.847	167779	0.238
Fe	57	5098.090	ug/L	2.046	320009	0.452
Co	59	49.092	ug/L	1.496	113661	0.162
Ni	60	50.730	ug/L	1.526	24283	0.035
Cu	63		ug/L		53461	0.076
Cu	65	50.995	ug/L	1.633	25887	0.037
Zn	66	50.810	ug/L	0.882	18011	0.120
Zn	67		ug/L		10065	0.003
Zn	68		ug/L		13556	0.085
> Ge	74		ug/L		148791	148790.752
As	75	47.149	ug/L	0.528	20137	0.138
Se	77		ug/L		7282	-0.010
Se	82	49.492	ug/L	3.987	1966	0.013
Kr	83		ug/L		55	0.000
Sr	88	51.517	ug/L	1.469	224450	2.990
Y	89		ug/L		49	0.000
Ag	107	50.710	ug/L	2.337	80699	1.075
Cd	111	48.926	ug/L	2.447	19118	0.255
Cd	114		ug/L		43746	0.583
> In	115		ug/L		75052	75051.946
Sn	120	50.716	ug/L	1.358	78543	1.045
Sb	121	46.096	ug/L	16.644	57008	0.757
Sb	123		ug/L		43925	0.583
Ba	135		ug/L		19230	0.224
Ba	137	51.009	ug/L	1.217	33580	0.391
Ho	165		ug/L		11	0.000
> Lu	175		ug/L		85750	85749.794
Tl	205	49.548	ug/L	0.100	117595	1.370
Pb	208	51.561	ug/L	0.772	197307	2.298
Bi	209		ug/L		55	0.000
U	238	54.364	ug/L	1.123	201476	2.349

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7	95.331			
|	Be	9	98.378			
|	B	11	94.496			
|	Na	23	92.208			
|	Mg	24	99.924			
|	Al	27	95.728			
|	P	31	102.716			
|	K	39	93.950			
|	Ca	43	96.192			
>	Sc	45		89.9		
|	V	51	102.216			
|	Cr	52	99.233			
|	Cr	53				
|	Mn	55	101.776			
|	Fe	57	101.962			
|	Co	59	98.184			
|	Ni	60	101.459			
|	Cu	63				
|	Cu	65	101.991			
|	Zn	66	101.620			
|	Zn	67				
|	Zn	68				
>	Ge	74		90.4		
|	As	75	94.299			
|	Se	77				
|	Se	82	98.985			
|	Kr	83				
|	Sr	88	103.033			
|	Y	89				
|	Ag	107	101.419			
|	Cd	111	97.852			
|	Cd	114				
>	In	115		92.2		
|	Sn	120	101.432			
|	Sb	121	92.191			
|	Sb	123				
|	Ba	135				
|	Ba	137	102.019			
|	Ho	165				
>	Lu	175		95.7		
|	Tl	205	99.095			
|	Pb	208	103.122			
|	Bi	209				
|	U	238	108.728			

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, February 14, 2010 06:18:14

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nolrs thtimezr.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 7.137

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.025 ug/L	49.221	63	0.000
|	Be	9	0.011 ug/L	110.738	7	0.000
|	B	11	2.214 ug/L	25.606	1205	0.001
|	Na	23	1.614 ug/L	113.061	15009	0.007
|	Mg	24	-1.293 ug/L	24.818	1667	-0.004
|	Al	27	0.459 ug/L	58.820	3334	0.002
|	P	31	-0.826 ug/L	123.880	6065	-0.000
|	K	39	16.365 ug/L	80.832	475819	0.065
|	Ca	43	19.454 ug/L	23.037	559	0.000
>	Sc	45	ug/L		669899	669899.492
|	V	51	1.178 ug/L	64.664	-2718	0.004
|	Cr	52	-0.857 ug/L	6.433	-1328	-0.003
|	Cr	53	ug/L		171350	0.017
|	Mn	55	-0.008 ug/L	195.826	1187	-0.000
|	Fe	57	11.161 ug/L	18.537	4305	0.001
|	Co	59	0.015 ug/L	21.528	175	0.000
|	Ni	60	0.036 ug/L	78.535	67	0.000
|	Cu	63	ug/L		105	-0.000
|	Cu	65	0.003 ug/L	634.582	86	0.000
|	Zn	66	0.084 ug/L	43.313	109	0.000
|	Zn	67	ug/L		9344	0.002
|	Zn	68	ug/L		946	0.000
>	Ge	74	ug/L		141125	141125.163
|	As	75	1.053 ug/L	115.715	73	0.003
|	Se	77	ug/L		8359	0.000
|	Se	82	-0.041 ug/L	624.642	-6	-0.000
|	Kr	83	ug/L		57	0.000
|	Sr	88	0.010 ug/L	71.451	110	0.001
|	Y	89	ug/L		31	0.000
|	Ag	107	0.009 ug/L	61.333	37	0.000
|	Cd	111	0.015 ug/L	151.882	16	0.000
|	Cd	114	ug/L		20	0.000
>	In	115	ug/L		71402	71401.839
|	Sn	120	0.374 ug/L	10.901	672	0.008
|	Sb	121	2.136 ug/L	31.111	2763	0.035
|	Sb	123	ug/L		2198	0.028
|	Ba	135	ug/L		19	0.000
|	Ba	137	-0.001 ug/L	1075.671	19	-0.000
|	Ho	165	ug/L		8	-0.000
>	Lu	175	ug/L		80942	80942.469
|	Tl	205	0.140 ug/L	21.037	387	0.004
|	Pb	208	0.010 ug/L	51.113	247	0.000
|	Bi	209	ug/L		21	0.000
|	U	238	0.063 ug/L	31.923	299	0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		86.0			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		85.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		87.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		90.3			
Tl	205					
Pb	208					
Bi	209					
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#6 - Summary Report

Sample ID: 245136001

Sample Date/Time: Sunday, February 14, 2010 06:24:08

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\245136001.138

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	49.675 ug/L	2.789	32189	0.048
|	Be	9	3.180 ug/L	5.513	812	0.001
|	B	11	14.217 ug/L	1.323	4001	0.005
|	Na	23	680.241 ug/L	16.410	1972164	2.951
|	Mg	24	7639.322 ug/L	3.382	13752771	20.685
|	Al	27	59366.564 ug/L	6.444	134102127	201.708
|	P	31	459.944 ug/L	1.120	59583	0.080
|	K	39	7198.717 ug/L	4.980	19445621	28.607
|	Ca	43	6929.273 ug/L	2.332	39023	0.058
>	Sc	45	ug/L		664725	664725.421
|	V	51	59.443 ug/L	0.921	133350	0.209
|	Cr	52	31.082 ug/L	1.804	62899	0.094
|	Cr	53	ug/L		124550	-0.052
|	Mn	55	1064.844 ug/L	2.196	3310270	4.978
|	Fe	57	30629.744 ug/L	1.337	1808120	2.715
|	Co	59	15.991 ug/L	1.968	35258	0.053
|	Ni	60	25.838 ug/L	1.271	11771	0.018
|	Cu	63	ug/L		25621	0.038
[	Cu	65	26.427 ug/L	1.819	12782	0.019
[	Zn	66	97.996 ug/L	0.176	29945	0.232
|	Zn	67	ug/L		12512	0.033
|	Zn	68	ug/L		24519	0.184
>	Ge	74	ug/L		128567	128566.581
|	As	75	7.614 ug/L	14.763	2534	0.022
|	Se	77	ug/L		5226	-0.018
|	Se	82	-0.241 ug/L	251.170	-13	-0.000
[	Kr	83	ug/L		105	0.000
[	Sr	88	85.111 ug/L	1.043	312269	4.940
|	Y	89	ug/L		160403	2.538
|	Ag	107	0.413 ug/L	2.086	574	0.009
|	Cd	111	1.676 ug/L	4.706	561	0.009
|	Cd	114	ug/L		341	0.005
>	In	115	ug/L		63204	63203.849
|	Sn	120	1.048 ug/L	3.537	1471	0.022
|	Sb	121	0.982 ug/L	14.348	1240	0.016
[	Sb	123	ug/L		984	0.013
[	Ba	135	ug/L		164916	2.174
|	Ba	137	485.975 ug/L	1.083	282840	3.728
|	Ho	165	ug/L		6351	0.084
>	Lu	175	ug/L		75859	75859.319
|	Tl	205	0.744 ug/L	5.057	1629	0.021
|	Pb	208	57.529 ug/L	0.650	194729	2.564
|	Bi	209	ug/L		2301	0.030
[	U	238	27.134 ug/L	0.984	89000	1.172

Sample ID: 245136001

Report Date/Time: Sunday, February 14, 2010 06:26:38

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		85.3			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		78.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		77.6			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		84.6			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Al	27	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: 1202021578

Sample Date/Time: Sunday, February 14, 2010 06:30:01

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\1202021578.139

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	52.732	ug/L	1.615	34798	0.051
Be	9	3.307	ug/L	2.850	860	0.001
B	11	15.056	ug/L	1.692	4274	0.005
Na	23	620.726	ug/L	2.611	1833234	2.692
Mg	24	7482.865	ug/L	7.769	13721523	20.261
Al	27	60876.317	ug/L	2.453	140041105	206.837
P	31	455.356	ug/L	1.553	60144	0.080
K	39	8234.189	ug/L	6.850	22592889	32.722
Ca	43	7044.150	ug/L	0.493	40397	0.059
> Sc	45		ug/L		677063	677063.158
V	51	66.047	ug/L	1.396	151536	0.232
Cr	52	32.457	ug/L	1.947	66888	0.098
Cr	53		ug/L		111264	-0.075
Mn	55	1229.244	ug/L	0.119	3891876	5.746
Fe	57	33659.163	ug/L	3.592	2023571	2.983
Co	59	17.585	ug/L	0.937	39479	0.058
Ni	60	25.638	ug/L	2.241	11898	0.017
Cu	63		ug/L		27140	0.040
Cu	65	27.235	ug/L	1.698	13415	0.020
Zn	66	104.624	ug/L	2.291	32195	0.248
Zn	67		ug/L		12093	0.029
Zn	68		ug/L		26363	0.197
> Ge	74		ug/L		129546	129546.341
As	75	8.657	ug/L	7.026	2950	0.025
Se	77		ug/L		4679	-0.023
Se	82	-0.380	ug/L	126.390	-18	-0.000
Kr	83		ug/L		121	0.001
Sr	88	87.155	ug/L	1.520	330616	5.058
Y	89		ug/L		174990	2.678
Ag	107	0.402	ug/L	4.420	579	0.009
Cd	111	1.620	ug/L	8.514	561	0.008
Cd	114		ug/L		365	0.005
> In	115		ug/L		65351	65350.997
Sn	120	1.340	ug/L	0.490	1914	0.028
Sb	121	0.589	ug/L	4.174	860	0.010
Sb	123		ug/L		655	0.007
Ba	135		ug/L		170893	2.214
Ba	137	486.054	ug/L	1.264	287773	3.729
Ho	165		ug/L		6994	0.090
> Lu	175		ug/L		77177	77177.390
Tl	205	0.725	ug/L	3.123	1619	0.020
Pb	208	60.250	ug/L	1.558	207433	2.686
Bi	209		ug/L		2324	0.030
U	238	24.941	ug/L	0.535	83230	1.077

Sample ID: 1202021578

Report Date/Time: Sunday, February 14, 2010 06:32:32

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		86.9			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		78.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		80.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		86.1			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Al	27	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: 1202021579

Sample Date/Time: Sunday, February 14, 2010 06:35:55

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\1202021579.140

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	86.344	ug/L	2.180	56130	0.084
Be	9	32.259	ug/L	3.186	8226	0.012
B	11	73.381	ug/L	1.996	17893	0.026
Na	23	1852.735	ug/L	4.642	5373763	8.036
Mg	24	9144.914	ug/L	4.422	16529885	24.762
Al	27	66112.017	ug/L	4.017	149899809	224.626
P	31	1537.978	ug/L	0.417	185631	0.269
K	39	8781.689	ug/L	5.414	23716914	34.898
Ca	43	7938.692	ug/L	0.550	44818	0.066
> Sc	45		ug/L		667348	667348.321
V	51	94.717	ug/L	0.809	216568	0.333
Cr	52	62.533	ug/L	0.713	126637	0.189
Cr	53		ug/L		117888	-0.062
Mn	55	1057.402	ug/L	0.616	3299943	4.943
Fe	57	36109.213	ug/L	2.384	2139169	3.200
Co	59	42.056	ug/L	1.238	92863	0.139
Ni	60	51.847	ug/L	1.096	23662	0.035
Cu	63		ug/L		52806	0.079
Cu	65	53.400	ug/L	1.400	25845	0.039
Zn	66	133.051	ug/L	0.852	41022	0.315
Zn	67		ug/L		13377	0.039
Zn	68		ug/L		32032	0.240
> Ge	74		ug/L		129809	129808.726
As	75	47.703	ug/L	2.733	17779	0.139
Se	77		ug/L		5027	-0.020
Se	82	8.463	ug/L	5.218	290	0.002
Kr	83		ug/L		130	0.001
Sr	88	118.658	ug/L	1.101	438404	6.887
Y	89		ug/L		157677	2.477
Ag	107	27.640	ug/L	1.416	37326	0.586
Cd	111	7.680	ug/L	2.303	2554	0.040
Cd	114		ug/L		4503	0.071
> In	115		ug/L		63652	63652.176
Sn	120	14.478	ug/L	0.135	19097	0.298
Sb	121	59.058	ug/L	1.763	61970	0.970
Sb	123		ug/L		48688	0.762
Ba	135		ug/L		171358	2.258
Ba	137	501.118	ug/L	1.143	291730	3.844
Ho	165		ug/L		6217	0.082
> Lu	175		ug/L		75883	75883.466
Tl	205	52.864	ug/L	1.788	111007	1.462
Pb	208	167.655	ug/L	1.172	567227	7.473
Bi	209		ug/L		2243	0.029
U	238	55.709	ug/L	1.064	182687	2.407

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
|>	Sc	45	85.7			
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
|	Zn	66				
|	Zn	67				
|	Zn	68				
|>	Ge	74	78.8			
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Ag	107				
|	Cd	111				
|	Cd	114				
|>	In	115	78.2			
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
|>	Lu	175	84.7			
|	Tl	205				
|	Pb	208				
|	Bi	209				
|	U	238				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Al	27	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: 1202021580

Sample Date/Time: Sunday, February 14, 2010 06:41:49

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 nohrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\1202021580.141

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	89.765	ug/L	4.296	59261	0.087
Be	9	33.078	ug/L	2.757	8567	0.013
B	11	75.349	ug/L	4.092	18639	0.026
Na	23	1868.408	ug/L	6.166	5506522	8.104
Mg	24	8921.310	ug/L	7.603	16373648	24.156
Al	27	73793.527	ug/L	2.493	169973555	250.726
P	31	1585.094	ug/L	1.616	194122	0.277
K	39	9184.050	ug/L	0.477	25178145	36.497
Ca	43	8100.111	ug/L	0.839	46439	0.068
> Sc	45		ug/L		677872	677871.827
V	51	95.055	ug/L	0.381	220786	0.334
Cr	52	62.981	ug/L	1.368	129544	0.191
Cr	53		ug/L		114653	-0.070
Mn	55	1080.082	ug/L	1.458	3423463	5.049
Fe	57	35952.713	ug/L	0.906	2163521	3.186
Co	59	43.267	ug/L	0.148	97041	0.143
Ni	60	53.999	ug/L	1.211	25030	0.037
Cu	63		ug/L		55611	0.082
Cu	65	55.373	ug/L	0.919	27217	0.040
Zn	66	135.518	ug/L	0.746	42481	0.321
Zn	67		ug/L		13425	0.037
Zn	68		ug/L		32927	0.243
> Ge	74		ug/L		131983	131982.539
As	75	48.977	ug/L	0.650	18568	0.143
Se	77		ug/L		4867	-0.022
Se	82	9.522	ug/L	7.032	332	0.003
Kr	83		ug/L		125	0.001
Sr	88	121.769	ug/L	1.337	453911	7.067
Y	89		ug/L		173109	2.696
Ag	107	29.133	ug/L	1.850	39691	0.618
Cd	111	7.671	ug/L	2.280	2574	0.040
Cd	114		ug/L		4761	0.074
> In	115		ug/L		64227	64226.855
Sn	120	14.571	ug/L	1.044	19391	0.300
Sb	121	62.269	ug/L	1.468	65908	1.023
Sb	123		ug/L		50853	0.789
Ba	135		ug/L		176182	2.292
Ba	137	513.444	ug/L	0.968	302767	3.939
Ho	165		ug/L		7075	0.092
> Lu	175		ug/L		76855	76854.622
Tl	205	54.517	ug/L	0.025	115958	1.508
Pb	208	171.526	ug/L	0.974	587776	7.646
Bi	209		ug/L		2255	0.029
U	238	71.182	ug/L	1.495	236397	3.075

Sample ID: 1202021580

Report Date/Time: Sunday, February 14, 2010 06:44:20

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		87.0			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		80.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		78.9			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		85.7			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Al	27	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: 1202021581

Sample Date/Time: Sunday, February 14, 2010 06:47:43

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 944114|10|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\1202021581.142

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc.	RSD	Meas.	Intens.	Mean	Net Intens.	Mean
[	Li	7	11.968	ug/L		2.416		7931		0.012		
|	Be	9	0.749	ug/L		10.597		198		0.000		
|	B	11	4.766	ug/L		11.495		1825		0.002		
|	Na	23	144.798	ug/L		6.011		435556		0.628		
|	Mg	24	1482.194	ug/L		7.069		2720479		4.013		
|	Al	27	12651.229	ug/L		8.288		29100993		42.985		
|	P	31	103.351	ug/L		4.091		18458		0.018		
|	K	39	1636.156	ug/L		4.822		4836817		6.502		
|	Ca	43	1507.743	ug/L		1.298		9001		0.013		
>	Sc	45		ug/L				676800		676799.519		
|	V	51	13.786	ug/L		3.252		27220		0.048		
|	Cr	52	6.485	ug/L		1.565		13689		0.020		
|	Cr	53		ug/L				139064		-0.034		
|	Mn	55	252.165	ug/L		0.770		799044		1.179		
|	Fe	57	7708.192	ug/L		0.840		466051		0.683		
|	Co	59	3.496	ug/L		1.653		7961		0.012		
|	Ni	60	5.619	ug/L		2.751		2646		0.004		
|	Cu	63		ug/L				5729		0.008		
|	Cu	65	5.575	ug/L		0.308		2813		0.004		
[	Zn	66	20.263	ug/L		0.456		6752		0.048		
|	Zn	67		ug/L				9143		0.001		
|	Zn	68		ug/L				6092		0.037		
>	Ge	74		ug/L				138878		138877.839		
|	As	75	2.806	ug/L		34.101		789		0.008		
|	Se	77		ug/L				6969		-0.009		
|	Se	82	-0.163	ug/L		134.984		-11		-0.000		
|	Kr	83		ug/L				77		0.000		
[	Sr	88	17.421	ug/L		1.673		68722		1.011		
|	Y	89		ug/L				34683		0.510		
|	Ag	107	0.071	ug/L		11.890		125		0.002		
|	Cd	111	0.338	ug/L		0.316		130		0.002		
|	Cd	114		ug/L				85		0.001		
>	In	115		ug/L				67911		67910.833		
|	Sn	120	0.220	ug/L		5.806		423		0.005		
|	Sb	121	0.247	ug/L		19.011		512		0.004		
|	Sb	123		ug/L				403		0.003		
[	Ba	135		ug/L				35380		0.451		
|	Ba	137	102.149	ug/L		2.328		61497		0.784		
|	Ho	165		ug/L				1320		0.017		
>	Lu	175		ug/L				78472		78472.434		
|	Tl	205	0.348	ug/L		8.832		828		0.010		
|	Pb	208	11.994	ug/L		0.690		42156		0.535		
|	Bi	209		ug/L				502		0.006		
|	U	238	5.440	ug/L		1.021		18518		0.235		

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
|	Li	7					
|	Be	9					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
>	Sc	45		86.9			
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74		84.4			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		83.4			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		87.5			
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	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#6 - Summary Report

Sample ID: 245136002

Sample Date/Time: Sunday, February 14, 2010 06:53:38

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\245136002.143

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	59.036 ug/L	3.389	39324	0.057
|	Be	9	2.907 ug/L	3.358	764	0.001
|	B	11	11.507 ug/L	2.210	3463	0.004
|	Na	23	761.908 ug/L	6.644	2268790	3.305
|	Mg	24	6413.048 ug/L	3.747	11881831	17.365
|	Al	27	50330.366 ug/L	9.176	116879090	171.006
|	P	31	827.006 ug/L	0.999	105191	0.145
|	K	39	5420.034 ug/L	4.560	15174329	21.539
|	Ca	43	6383.188 ug/L	0.481	37010	0.053
>	Sc	45	ug/L		683750	683750.456
|	V	51	53.675 ug/L	1.999	123338	0.189
|	Cr	52	23.523 ug/L	1.296	49064	0.071
|	Cr	53	ug/L		109552	-0.079
|	Mn	55	1050.585 ug/L	2.765	3358233	4.911
|	Fe	57	28064.549 ug/L	2.352	1703977	2.487
|	Co	59	18.026 ug/L	2.636	40853	0.060
|	Ni	60	22.694 ug/L	1.665	10643	0.015
|	Cu	63	ug/L		22373	0.033
|	Cu	65	22.163 ug/L	1.144	11041	0.016
[	Zn	66	112.214 ug/L	1.761	35759	0.266
|	Zn	67	ug/L		12573	0.029
|	Zn	68	ug/L		28672	0.207
>	Ge	74	ug/L		134144	134143.646
|	As	75	6.892 ug/L	22.844	2367	0.020
|	Se	77	ug/L		4745	-0.024
|	Se	82	-1.146 ug/L	38.951	-46	-0.000
|	Kr	83	ug/L		130	0.001
[	Sr	88	68.454 ug/L	2.305	263453	3.973
|	Y	89	ug/L		154596	2.331
|	Ag	107	1.317 ug/L	2.739	1873	0.028
|	Cd	111	0.976 ug/L	3.102	347	0.005
|	Cd	114	ug/L		246	0.004
>	In	115	ug/L		66304	66304.081
|	Sn	120	1.686 ug/L	1.807	2416	0.035
|	Sb	121	0.288 ug/L	11.189	544	0.005
|	Sb	123	ug/L		417	0.003
[	Ba	135	ug/L		138419	1.782
|	Ba	137	400.931 ug/L	1.314	238865	3.076
|	Ho	165	ug/L		6213	0.080
>	Lu	175	ug/L		77652	77651.607
|	Tl	205	0.753 ug/L	4.421	1690	0.021
|	Pb	208	64.031 ug/L	0.829	221829	2.854
|	Bi	209	ug/L		1489	0.019
|	U	238	5.790 ug/L	0.468	19496	0.250

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		87.8			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		81.5			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		81.4			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		86.6			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Al	27	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: 245136003

Sample Date/Time: Sunday, February 14, 2010 06:59:32

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114[2]rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\245136003.144

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	76.543 ug/L	1.093	53144	0.075
|	Be	9	5.797 ug/L	3.233	1583	0.002
|	B	11	19.884 ug/L	1.408	5708	0.007
|	Na	23	589.108 ug/L	3.090	1832179	2.555
|	Mg	24	10695.282 ug/L	16.691	20623297	28.960
|	Al	27	67495.978 ug/L	2.586	163440679	229.329
|	P	31	500.502 ug/L	4.407	68912	0.088
|	K	39	8529.934 ug/L	2.427	24616133	33.897
|	Ca	43	10386.695 ug/L	1.284	62462	0.087
>	Sc	45	ug/L		712606	712606.314
|	V	51	69.433 ug/L	0.575	167956	0.244
|	Cr	52	37.381 ug/L	0.531	81007	0.113
|	Cr	53	ug/L		109028	-0.086
|	Mn	55	617.400 ug/L	3.887	2057572	2.886
|	Fe	57	46860.760 ug/L	2.703	2962944	4.153
|	Co	59	10.206 ug/L	1.260	24178	0.034
|	Ni	60	30.250 ug/L	0.897	14764	0.021
|	Cu	63	ug/L		27314	0.038
[	Cu	65	26.347 ug/L	1.589	13660	0.019
|	Zn	66	175.536 ug/L	1.278	55839	0.416
|	Zn	67	ug/L		14919	0.047
|	Zn	68	ug/L		41009	0.300
>	Ge	74	ug/L		133992	133992.467
|	As	75	8.431 ug/L	3.109	2964	0.025
|	Se	77	ug/L		4649	-0.024
|	Se	82	-0.003 ug/L	22020.614	-5	-0.000
[	Kr	83	ug/L		146	0.001
|	Sr	88	108.385 ug/L	2.899	415203	6.291
|	Y	89	ug/L		352556	5.341
|	Ag	107	0.760 ug/L	3.489	1086	0.016
|	Cd	111	2.552 ug/L	8.474	887	0.013
|	Cd	114	ug/L		174	0.002
>	In	115	ug/L		66019	66018.500
|	Sn	120	1.985 ug/L	1.881	2812	0.041
|	Sb	121	0.390 ug/L	6.200	653	0.006
[	Sb	123	ug/L		522	0.005
|	Ba	135	ug/L		105103	1.332
|	Ba	137	298.791 ug/L	1.000	180826	2.292
|	Ho	165	ug/L		14232	0.180
>	Lu	175	ug/L		78878	78877.613
|	Tl	205	0.677 ug/L	0.403	1548	0.019
|	Pb	208	41.102 ug/L	0.925	144719	1.832
|	Bi	209	ug/L		1291	0.016
[	U	238	4.684 ug/L	1.585	16038	0.202

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		91.5			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		81.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		81.1			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		88.0			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Al	27	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: 245136004

Sample Date/Time: Sunday, February 14, 2010 07:05:25

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\245136004.145

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	75.297	ug/L	3.312	51562	0.073
Be	9	5.504	ug/L	6.752	1482	0.002
B	11	17.992	ug/L	1.196	5163	0.006
Na	23	893.960	ug/L	2.097	2736419	3.878
Mg	24	11165.309	ug/L	5.064	21248246	30.232
Al	27	81935.054	ug/L	4.682	195748721	278.388
P	31	478.535	ug/L	2.345	65294	0.084
K	39	10580.402	ug/L	2.875	30011450	42.046
Ca	43	9568.032	ug/L	1.427	56799	0.080
> Sc	45		ug/L		703019	703018.719
V	51	105.522	ug/L	0.662	254814	0.371
Cr	52	47.071	ug/L	0.480	100522	0.142
Cr	53		ug/L		108031	-0.085
Mn	55	917.104	ug/L	2.430	3014680	4.287
Fe	57	55290.184	ug/L	4.366	3447542	4.900
Co	59	17.640	ug/L	1.715	41113	0.058
Ni	60	35.995	ug/L	2.499	17319	0.025
Cu	63		ug/L		33831	0.048
Cu	65	32.554	ug/L	1.183	16631	0.024
Zn	66	162.059	ug/L	0.443	51285	0.384
Zn	67		ug/L		14678	0.046
Zn	68		ug/L		38622	0.283
> Ge	74		ug/L		133279	133278.849
As	75	11.453	ug/L	7.197	4126	0.033
Se	77		ug/L		4466	-0.026
Se	82	-0.686	ug/L	81.001	-29	-0.000
Kr	83		ug/L		172	0.001
Sr	88	114.267	ug/L	1.771	440227	6.632
Y	89		ug/L		310579	4.679
Ag	107	0.498	ug/L	5.444	723	0.011
Cd	111	1.787	ug/L	5.096	627	0.009
Cd	114		ug/L		182	0.003
> In	115		ug/L		66380	66380.250
Sn	120	1.567	ug/L	0.734	2256	0.032
Sb	121	0.357	ug/L	4.719	620	0.006
Sb	123		ug/L		507	0.005
Ba	135		ug/L		163692	2.035
Ba	137	457.790	ug/L	0.649	282477	3.512
Ho	165		ug/L		12515	0.155
> Lu	175		ug/L		80429	80429.270
Tl	205	0.934	ug/L	6.019	2151	0.026
Pb	208	49.698	ug/L	1.054	178367	2.215
Bi	209		ug/L		2228	0.028
U	238	4.936	ug/L	2.146	17227	0.213

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
|	Li	7					
|	Be	9					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
>	Sc	45		90.3			
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74		81.0			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		81.5			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		89.7			
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Al	27	Sample is out of limits (over linear range)
	V	51	Sample is out of limits (over linear range)
	Fe	57	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, February 14, 2010 07:11:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 6.146

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	55.191 ug/L	1.027	39920	0.054
|	Be	9	53.922 ug/L	0.917	15289	0.021
|	B	11	101.114 ug/L	3.679	27123	0.036
|	Na	23	4697.532 ug/L	6.684	15140460	20.375
|	Mg	24	5069.098 ug/L	2.423	10188612	13.726
|	Al	27	5151.683 ug/L	3.449	12989659	17.504
|	P	31	5124.814 ug/L	0.902	671930	0.896
|	K	39	5124.655 ug/L	19.290	15623938	20.365
|	Ca	43	4921.078 ug/L	0.407	31084	0.041
>	Sc	45	ug/L		742146	742146.248
|	V	51	52.135 ug/L	1.414	129825	0.183
|	Cr	52	50.393 ug/L	0.948	113567	0.152
|	Cr	53	ug/L		127704	-0.067
|	Mn	55	51.201 ug/L	1.318	178956	0.239
|	Fe	57	5072.683 ug/L	2.430	337601	0.450
|	Co	59	49.678 ug/L	2.077	121935	0.164
|	Ni	60	49.929 ug/L	1.326	25340	0.034
|	Cu	63	ug/L		55186	0.074
|	Cu	65	48.778 ug/L	0.779	26260	0.035
[	Zn	66	49.523 ug/L	1.116	18571	0.117
|	Zn	67	ug/L		9288	-0.005
|	Zn	68	ug/L		13978	0.082
>	Ge	74	ug/L		157412	157411.503
|	As	75	46.765 ug/L	1.589	21129	0.137
|	Se	77	ug/L		6842	-0.016
|	Se	82	47.630 ug/L	2.248	2002	0.013
[	Kr	83	ug/L		70	0.000
[	Sr	88	51.183 ug/L	1.015	230839	2.971
|	Y	89	ug/L		97	0.001
|	Ag	107	49.724 ug/L	0.724	81934	1.054
|	Cd	111	48.834 ug/L	1.974	19759	0.254
|	Cd	114	ug/L		44840	0.577
>	In	115	ug/L		77688	77687.819
|	Sn	120	49.382 ug/L	1.269	79173	1.018
|	Sb	121	45.927 ug/L	18.063	58789	0.754
[	Sb	123	ug/L		44948	0.577
[	Ba	135	ug/L		19394	0.218
|	Ba	137	49.197 ug/L	0.350	33554	0.377
|	Ho	165	ug/L		17	0.000
>	Lu	175	ug/L		88846	88845.657
|	Tl	205	49.009 ug/L	0.574	120514	1.356
|	Pb	208	51.296 ug/L	0.177	203380	2.287
|	Bi	209	ug/L		63	0.001
[	U	238	54.353 ug/L	1.500	208716	2.348

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recov	Dilution	% Dil	Duplicate	Rel. % Difference
|	Li	7		110.382								
|	Be	9		107.845								
|	B	11		101.114								
|	Na	23		93.951								
|	Mg	24		101.382								
|	Al	27		102.014								
|	P	31		102.496								
|	K	39		102.493								
|	Ca	43		98.422								
>	Sc	45					95.3					
|	V	51		104.271								
|	Cr	52		100.787								
|	Cr	53										
|	Mn	55		102.403								
|	Fe	57		101.454								
|	Co	59		99.357								
|	Ni	60		99.857								
|	Cu	63										
|	Cu	65		97.555								
|	Zn	66		99.046								
|	Zn	67										
|	Zn	68										
>	Ge	74					95.6					
|	As	75		93.530								
|	Se	77										
|	Se	82		95.260								
|	Kr	83										
|	Sr	88		102.366								
|	Y	89										
|	Ag	107		99.448								
|	Cd	111		97.668								
|	Cd	114										
>	In	115					95.4					
|	Sn	120		98.763								
|	Sb	121		91.853								
|	Sb	123										
|	Ba	135										
|	Ba	137		98.394								
|	Ho	165										
>	Lu	175					99.1					
|	Tl	205		98.017								
|	Pb	208		102.592								
|	Bi	209										
|	U	238		108.707								

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Li		7CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, February 14, 2010 07:17:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 noirs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 7.147

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.099	ug/L	21.118	119	0.000
Be	9	0.004	ug/L	330.137	6	0.000
B	11	2.338	ug/L	20.947	1320	0.001
Na	23	1.496	ug/L	109.707	15676	0.006
Mg	24	-0.147	ug/L	359.245	4001	-0.000
Al	27	2.142	ug/L	61.590	7669	0.007
P	31	-2.252	ug/L	25.631	6305	-0.000
K	39	-1.002	ug/L	482.157	459268	-0.004
Ca	43	-0.976	ug/L	139.074	475	-0.000
> Sc	45		ug/L		716115	716115.069
V	51	1.498	ug/L	154.246	-2081	0.005
Cr	52	0.199	ug/L	55.419	869	0.001
Cr	53		ug/L		153220	-0.025
Mn	55	0.044	ug/L	8.259	1443	0.000
Fe	57	8.979	ug/L	21.908	4464	0.001
Co	59	0.007	ug/L	106.568	168	0.000
Ni	60	0.012	ug/L	114.842	60	0.000
Cu	63		ug/L		112	-0.000
Cu	65	-0.047	ug/L	13.200	66	-0.000
Zn	66	0.026	ug/L	133.623	96	0.000
Zn	67		ug/L		8689	-0.007
Zn	68		ug/L		819	-0.001
> Ge	74		ug/L		150788	150787.501
As	75	1.151	ug/L	40.978	124	0.003
Se	77		ug/L		7880	-0.007
Se	82	0.103	ug/L	341.431	-1	0.000
Kr	83		ug/L		64	0.000
Sr	88	0.007	ug/L	38.740	101	0.000
Y	89		ug/L		47	0.000
Ag	107	0.004	ug/L	100.029	30	0.000
Cd	111	-0.006	ug/L	180.098	9	-0.000
Cd	114		ug/L		19	0.000
> In	115		ug/L		73147	73146.631
Sn	120	0.395	ug/L	20.556	719	0.008
Sb	121	2.096	ug/L	33.140	2774	0.034
Sb	123		ug/L		2118	0.026
Ba	135		ug/L		15	0.000
Ba	137	0.015	ug/L	57.696	30	0.000
Ho	165		ug/L		14	0.000
> Lu	175		ug/L		84014	84013.517
Tl	205	0.083	ug/L	17.367	270	0.002
Pb	208	0.011	ug/L	35.201	260	0.001
Bi	209		ug/L		21	0.000
U	238	0.055	ug/L	22.564	280	0.002

Sample ID: QC Std 7

Report Date/Time: Sunday, February 14, 2010 07:19:44

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		91.9			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		91.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		89.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		93.7			
Tl	205					
Pb	208					
Bi	209					
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#6 - Summary Report

Sample ID: 245136005

Sample Date/Time: Sunday, February 14, 2010 07:23:07

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\245136005.148

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	37.335 ug/L	0.337	25470	0.036
|	Be	9	2.570 ug/L	3.756	691	0.001
|	B	11	11.109 ug/L	1.899	3445	0.004
|	Na	23	496.150 ug/L	5.853	1515833	2.152
|	Mg	24	5162.113 ug/L	4.372	9782395	13.977
|	Al	27	37122.761 ug/L	5.366	88253216	126.131
|	P	31	462.423 ug/L	1.115	63005	0.081
|	K	39	5464.062 ug/L	7.349	15637989	21.714
|	Ca	43	5766.793 ug/L	0.323	34254	0.048
>	Sc	45	ug/L		699505	699505.165
|	V	51	48.126 ug/L	1.561	112508	0.169
|	Cr	52	23.145 ug/L	1.993	49394	0.070
|	Cr	53	ug/L		109475	-0.083
|	Mn	55	762.451 ug/L	1.213	2494355	3.564
|	Fe	57	28005.598 ug/L	0.800	1739963	2.482
|	Co	59	10.192 ug/L	1.720	23699	0.034
|	Ni	60	16.184 ug/L	0.493	7779	0.011
|	Cu	63	ug/L		20649	0.029
[	Cu	65	19.975 ug/L	1.843	10189	0.014
|	Zn	66	111.757 ug/L	0.826	36215	0.265
|	Zn	67	ug/L		12333	0.026
|	Zn	68	ug/L		27710	0.197
>	Ge	74	ug/L		136387	136386.709
|	As	75	7.099 ug/L	12.235	2487	0.021
|	Se	77	ug/L		4776	-0.024
|	Se	82	-0.339 ug/L	109.084	-17	-0.000
[	Kr	83	ug/L		106	0.000
|	Sr	88	55.560 ug/L	1.346	219266	3.225
|	Y	89	ug/L		186224	2.739
|	Ag	107	0.457 ug/L	3.716	682	0.010
|	Cd	111	1.767 ug/L	9.706	636	0.009
|	Cd	114	ug/L		272	0.004
>	In	115	ug/L		67984	67984.006
|	Sn	120	2.109 ug/L	3.508	3068	0.043
|	Sb	121	0.938 ug/L	13.035	1285	0.015
[	Sb	123	ug/L		1001	0.012
|	Ba	135	ug/L		97690	1.211
|	Ba	137	269.926 ug/L	1.051	167021	2.071
|	Ho	165	ug/L		7188	0.089
>	Lu	175	ug/L		80648	80648.143
|	Tl	205	0.504 ug/L	1.595	1197	0.014
|	Pb	208	50.871 ug/L	2.057	183076	2.268
|	Bi	209	ug/L		1558	0.019
[	U	238	19.372 ug/L	1.358	67571	0.837

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate	Rel. % Difference
|	Li	7						
|	Be	9						
|	B	11						
|	Na	23						
|	Mg	24						
|	Al	27						
|	P	31						
|	K	39						
|	Ca	43						
>	Sc	45		89.8				
|	V	51						
|	Cr	52						
|	Cr	53						
|	Mn	55						
|	Fe	57						
|	Co	59						
|	Ni	60						
|	Cu	63						
|	Cu	65						
|	Zn	66						
|	Zn	67						
|	Zn	68						
>	Ge	74		82.8				
|	As	75						
|	Se	77						
|	Se	82						
|	Kr	83						
|	Sr	88						
|	Y	89						
|	Ag	107						
|	Cd	111						
|	Cd	114						
>	In	115		83.5				
|	Sn	120						
|	Sb	121						
|	Sb	123						
|	Ba	135						
|	Ba	137						
|	Ho	165						
>	Lu	175		90.0				
|	Tl	205						
|	Pb	208						
|	Bi	209						
|	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#6 - Summary Report

Sample ID: 245136006

Sample Date/Time: Sunday, February 14, 2010 07:29:01

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\245136006.149

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	41.437	ug/L	2.047	29136	0.040
Be	9	3.434	ug/L	4.981	951	0.001
B	11	8.120	ug/L	5.040	2795	0.003
Na	23	841.129	ug/L	4.176	2643289	3.648
Mg	24	4403.877	ug/L	7.979	8608664	11.924
Al	27	31745.094	ug/L	0.718	77800614	107.859
P	31	295.903	ug/L	0.930	43957	0.052
K	39	3946.429	ug/L	1.377	11777668	15.683
Ca	43	4256.629	ug/L	1.294	26194	0.036
> Sc	45		ug/L		721254	721254.461
V	51	40.343	ug/L	1.199	96286	0.142
Cr	52	34.774	ug/L	2.070	76294	0.105
Cr	53		ug/L		106180	-0.092
Mn	55	824.175	ug/L	1.488	2779833	3.853
Fe	57	29660.648	ug/L	1.945	1899973	2.629
Co	59	7.380	ug/L	1.055	17737	0.024
Ni	60	25.053	ug/L	1.522	12385	0.017
Cu	63		ug/L		17658	0.024
Cu	65	16.750	ug/L	2.291	8822	0.012
Zn	66	123.932	ug/L	1.254	41490	0.294
Zn	67		ug/L		12480	0.024
Zn	68		ug/L		30448	0.210
> Ge	74		ug/L		140928	140928.148
As	75	6.464	ug/L	4.128	2306	0.019
Se	77		ug/L		4545	-0.027
Se	82	-0.217	ug/L	175.073	-13	-0.000
Kr	83		ug/L		128	0.001
Sr	88	44.126	ug/L	0.817	179371	2.561
Y	89		ug/L		292615	4.179
Ag	107	0.353	ug/L	4.438	547	0.007
Cd	111	1.444	ug/L	7.553	537	0.008
Cd	114		ug/L		172	0.002
> In	115		ug/L		70013	70013.336
Sn	120	3.831	ug/L	0.724	5646	0.079
Sb	121	0.643	ug/L	3.638	983	0.011
Sb	123		ug/L		753	0.008
Ba	135		ug/L		72576	0.873
Ba	137	193.652	ug/L	1.210	123492	1.486
Ho	165		ug/L		11432	0.137
> Lu	175		ug/L		83108	83107.879
Tl	205	0.514	ug/L	2.393	1257	0.014
Pb	208	32.233	ug/L	0.966	119627	1.437
Bi	209		ug/L		853	0.010
U	238	4.919	ug/L	0.450	17742	0.213

Sample ID: 245136006

Report Date/Time: Sunday, February 14, 2010 07:31:32

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
|	Li	7				
|	Be	9				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
> |	Sc	45	92.6			
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
|	Zn	66				
|	Zn	67				
|	Zn	68				
> |	Ge	74	85.6			
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Sr	88				
|	Y	89				
|	Ag	107				
|	Cd	111				
|	Cd	114				
> |	In	115	86.0			
|	Sn	120				
|	Sb	121				
|	Sb	123				
|	Ba	135				
|	Ba	137				
|	Ho	165				
> |	Lu	175	92.7			
|	Tl	205				
|	Pb	208				
|	Bi	209				
|	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#6 - Summary Report

Sample ID: 245136007

Sample Date/Time: Sunday, February 14, 2010 07:34:55

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\245136007.150

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	67.771 ug/L	2.155	48484	0.066
|	Be	9	4.593 ug/L	4.077	1293	0.002
|	B	11	14.600 ug/L	2.683	4517	0.005
|	Na	23	867.102 ug/L	5.017	2772085	3.761
|	Mg	24	8503.322 ug/L	3.094	16906807	23.024
|	Al	27	58340.367 ug/L	7.222	145623745	198.221
|	P	31	1057.581 ug/L	0.873	142557	0.185
|	K	39	7619.198 ug/L	3.752	22705292	30.278
|	Ca	43	9042.114 ug/L	0.606	56095	0.076
>	Sc	45	ug/L		734264	734264.112
|	V	51	79.956 ug/L	1.154	200200	0.281
|	Cr	52	48.854 ug/L	0.215	108954	0.148
|	Cr	53	ug/L		105023	-0.096
|	Mn	55	1468.208 ug/L	0.968	5040601	6.863
|	Fe	57	42118.974 ug/L	2.590	2744404	3.733
|	Co	59	21.384 ug/L	0.796	52028	0.071
|	Ni	60	35.475 ug/L	0.411	17831	0.024
|	Cu	63	ug/L		41079	0.056
|	Cu	65	37.557 ug/L	3.436	20023	0.027
[	Zn	66	145.259 ug/L	1.328	48410	0.344
|	Zn	67	ug/L		14022	0.036
|	Zn	68	ug/L		37685	0.262
>	Ge	74	ug/L		140355	140355.383
|	As	75	13.486 ug/L	2.032	5181	0.039
|	Se	77	ug/L		4349	-0.028
|	Se	82	-0.275 ug/L	54.385	-15	-0.000
[	Kr	83	ug/L		149	0.001
[	Sr	88	97.084 ug/L	1.116	392992	5.635
|	Y	89	ug/L		326417	4.681
|	Ag	107	8.579 ug/L	1.058	12710	0.182
|	Cd	111	2.178 ug/L	8.615	801	0.011
|	Cd	114	ug/L		474	0.007
>	In	115	ug/L		69737	69737.159
|	Sn	120	1.965 ug/L	4.599	2942	0.040
|	Sb	121	0.514 ug/L	4.957	832	0.008
[	Sb	123	ug/L		645	0.006
[	Ba	135	ug/L		182668	2.183
|	Ba	137	488.757 ug/L	0.270	313745	3.750
|	Ho	165	ug/L		12570	0.150
>	Lu	175	ug/L		83670	83669.820
|	Tl	205	0.793 ug/L	2.698	1911	0.022
|	Pb	208	75.073 ug/L	0.643	280198	3.346
|	Bi	209	ug/L		3165	0.038
[	U	238	15.469 ug/L	1.445	55994	0.668

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		94.3			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		85.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		85.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		93.3			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Al	27	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: 245136008

Sample Date/Time: Sunday, February 14, 2010 07:40:51

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\245136008.151

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	80.678	ug/L	0.515	59230	0.079
Be	9	5.851	ug/L	2.933	1689	0.002
B	11	20.411	ug/L	0.473	6176	0.007
Na	23	1317.190	ug/L	17.425	4319618	5.713
Mg	24	12741.130	ug/L	11.780	25997853	34.499
Al	27	91080.554	ug/L	10.395	233283063	309.461
P	31	465.789	ug/L	1.384	68316	0.081
K	39	11513.313	ug/L	13.425	34957157	45.753
Ca	43	10029.915	ug/L	0.754	63807	0.084
> Sc	45		ug/L		753583	753582.890
V	51	101.622	ug/L	1.060	262836	0.357
Cr	52	50.426	ug/L	1.196	115397	0.153
Cr	53		ug/L		103538	-0.102
Mn	55	1003.856	ug/L	1.944	3537308	4.693
Fe	57	56063.951	ug/L	2.643	3747826	4.969
Co	59	23.037	ug/L	0.624	57511	0.076
Ni	60	37.998	ug/L	1.800	19596	0.026
Cu	63		ug/L		40480	0.054
Cu	65	36.085	ug/L	1.241	19750	0.026
Zn	66	177.859	ug/L	0.875	59735	0.422
Zn	67		ug/L		16134	0.050
Zn	68		ug/L		46891	0.325
> Ge	74		ug/L		141458	141458.412
As	75	12.083	ug/L	6.890	4636	0.035
Se	77		ug/L		4256	-0.029
Se	82	-1.122	ug/L	59.573	-48	-0.000
Kr	83		ug/L		182	0.001
Sr	88	135.394	ug/L	0.674	551918	7.858
Y	89		ug/L		340965	4.855
Ag	107	0.533	ug/L	2.726	817	0.011
Cd	111	1.854	ug/L	7.130	688	0.010
Cd	114		ug/L		287	0.004
> In	115		ug/L		70229	70228.808
Sn	120	1.461	ug/L	2.442	2233	0.030
Sb	121	0.338	ug/L	3.972	635	0.006
Sb	123		ug/L		507	0.004
Ba	135		ug/L		244278	2.897
Ba	137	646.496	ug/L	0.281	418278	4.960
Ho	165		ug/L		13736	0.163
> Lu	175		ug/L		84331	84330.698
Tl	205	1.027	ug/L	1.523	2473	0.028
Pb	208	66.387	ug/L	0.568	249767	2.959
Bi	209		ug/L		2731	0.032
U	238	7.215	ug/L	1.173	26367	0.312

Sample ID: 245136008

Report Date/Time: Sunday, February 14, 2010 07:43:23

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		96.8			
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		85.9			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Ag	107					
Cd	111					
Cd	114					
> In	115		86.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		94.1			
Tl	205					
Pb	208					
Bi	209					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Al	27	Sample is out of limits (over linear range)
	V	51	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)
	Fe	57	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

Sample ID: 245136008

ICPMS#6 - Summary Report

Sample ID: 245136009

Sample Date/Time: Sunday, February 14, 2010 07:46:47

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\245136009.152

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	71.449	ug/L	1.326	50913	0.070
Be	9	4.500	ug/L	1.847	1262	0.002
B	11	17.426	ug/L	0.591	5226	0.006
Na	23	1114.986	ug/L	7.839	3548824	4.836
Mg	24	9591.673	ug/L	1.463	18998431	25.971
Al	27	67638.054	ug/L	3.251	168073082	229.811
P	31	756.813	ug/L	2.618	103532	0.132
K	39	8733.132	ug/L	2.391	25852560	34.705
Ca	43	10336.808	ug/L	1.818	63805	0.087
> Sc	45		ug/L		731370	731370.263
V	51	82.142	ug/L	1.826	205031	0.289
Cr	52	42.963	ug/L	1.210	95488	0.130
Cr	53		ug/L		103165	-0.098
Mn	55	1192.677	ug/L	0.943	4079075	5.575
Fe	57	42445.008	ug/L	1.492	2755266	3.762
Co	59	20.338	ug/L	2.396	49299	0.067
Ni	60	35.886	ug/L	0.688	17966	0.024
Cu	63		ug/L		48979	0.067
Cu	65	44.866	ug/L	0.891	23812	0.032
Zn	66	156.887	ug/L	1.480	52554	0.372
Zn	67		ug/L		15130	0.043
Zn	68		ug/L		41648	0.289
> Ge	74		ug/L		141082	141081.670
As	75	10.043	ug/L	4.728	3786	0.029
Se	77		ug/L		4298	-0.029
Se	82	-0.367	ug/L	134.166	-19	-0.000
Kr	83		ug/L		156	0.001
Sr	88	111.363	ug/L	0.627	460837	6.463
Y	89		ug/L		297377	4.171
Ag	107	3.454	ug/L	1.370	5245	0.073
Cd	111	2.275	ug/L	6.778	855	0.012
Cd	114		ug/L		396	0.005
> In	115		ug/L		71290	71289.557
Sn	120	1.356	ug/L	3.828	2113	0.028
Sb	121	0.385	ug/L	7.664	700	0.006
Sb	123		ug/L		533	0.005
Ba	135		ug/L		213919	2.536
Ba	137	571.032	ug/L	1.336	369592	4.381
Ho	165		ug/L		11876	0.141
> Lu	175		ug/L		84367	84367.242
Tl	205	1.031	ug/L	1.683	2482	0.029
Pb	208	95.150	ug/L	1.665	358030	4.241
Bi	209		ug/L		2716	0.032
U	238	20.136	ug/L	1.412	73473	0.870

Sample ID: 245136009

Report Date/Time: Sunday, February 14, 2010 07:49:19

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
|	Li	7					
|	Be	9					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
|>	Sc	45		93.9			
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
|>	Ge	74		85.7			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		87.6			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
|>	Lu	175		94.1			
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Al	27	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: 245136010

Sample Date/Time: Sunday, February 14, 2010 07:52:43

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\245136010.153

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	88.171	ug/L	1.743	65013	0.086
Be	9	5.964	ug/L	1.069	1729	0.002
B	11	24.189	ug/L	2.784	7208	0.009
Na	23	807.772	ug/L	5.734	2663104	3.504
Mg	24	13713.033	ug/L	6.200	28122678	37.131
Al	27	93175.987	ug/L	4.358	239578379	316.581
P	31	774.975	ug/L	0.424	109570	0.136
K	39	12384.322	ug/L	6.782	37767218	49.214
Ca	43	13064.689	ug/L	0.006	83340	0.109
> Sc	45		ug/L		757042	757042.269
V	51	111.846	ug/L	1.204	291224	0.393
Cr	52	54.101	ug/L	0.896	124336	0.164
Cr	53		ug/L		104631	-0.101
Mn	55	1523.226	ug/L	2.704	5390481	7.121
Fe	57	56954.220	ug/L	2.589	3824563	5.048
Co	59	26.715	ug/L	0.915	66972	0.088
Ni	60	43.861	ug/L	1.284	22715	0.030
Cu	63		ug/L		57090	0.075
Cu	65	51.163	ug/L	1.340	28090	0.037
Zn	66	209.417	ug/L	2.276	69428	0.497
Zn	67		ug/L		18091	0.065
Zn	68		ug/L		54277	0.382
> Ge	74		ug/L		139708	139707.698
As	75	12.767	ug/L	5.505	4865	0.037
Se	77		ug/L		4114	-0.030
Se	82	-1.586	ug/L	30.505	-64	-0.000
Kr	83		ug/L		204	0.001
Sr	88	155.838	ug/L	2.134	635956	9.045
Y	89		ug/L		325884	4.635
Ag	107	0.753	ug/L	2.550	1146	0.016
Cd	111	3.058	ug/L	3.139	1130	0.016
Cd	114		ug/L		696	0.010
> In	115		ug/L		70325	70324.666
Sn	120	1.205	ug/L	0.782	1865	0.025
Sb	121	0.426	ug/L	3.067	737	0.007
Sb	123		ug/L		582	0.005
Ba	135		ug/L		305822	3.584
Ba	137	794.455	ug/L	2.282	520096	6.095
Ho	165		ug/L		12927	0.151
> Lu	175		ug/L		85356	85356.168
Tl	205	1.259	ug/L	1.143	3050	0.035
Pb	208	162.382	ug/L	1.202	617939	7.238
Bi	209		ug/L		4269	0.050
U	238	25.676	ug/L	1.569	94745	1.109

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
>	Sc	45		97.2			
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74		84.9			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		86.4			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		95.2			
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Al	27	Sample is out of limits (over linear range)
	V	51	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)
	Fe	57	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

Sample ID: 245136010

ICPMS#6 - Summary Report

Sample ID: 245136011

Sample Date/Time: Sunday, February 14, 2010 07:58:38

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\245136011.154

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	61.973	ug/L	3.273	43812	0.060
Be	9	4.276	ug/L	4.627	1190	0.002
B	11	25.447	ug/L	1.656	7233	0.009
Na	23	655.363	ug/L	6.471	2072840	2.843
Mg	24	9731.075	ug/L	5.191	19139045	26.349
Al	27	67918.780	ug/L	8.029	167360405	230.765
P	31	927.511	ug/L	0.905	124397	0.162
K	39	8484.710	ug/L	3.799	24953341	33.717
Ca	43	16088.388	ug/L	0.771	98286	0.135
> Sc	45		ug/L		725789	725788.761
V	51	68.071	ug/L	0.623	167597	0.239
Cr	52	43.166	ug/L	0.722	95200	0.131
Cr	53		ug/L		104561	-0.095
Mn	55	1144.285	ug/L	3.002	3882406	5.349
Fe	57	38420.951	ug/L	2.214	2474621	3.405
Co	59	17.951	ug/L	0.654	43194	0.059
Ni	60	34.600	ug/L	1.441	17189	0.024
Cu	63		ug/L		39881	0.055
Cu	65	37.709	ug/L	0.555	19877	0.027
Zn	66	130.073	ug/L	0.669	43393	0.308
Zn	67		ug/L		14012	0.035
Zn	68		ug/L		35889	0.249
> Ge	74		ug/L		140448	140447.887
As	75	8.552	ug/L	8.694	3160	0.025
Se	77		ug/L		4253	-0.029
Se	82	-0.534	ug/L	86.145	-25	-0.000
Kr	83		ug/L		153	0.001
Sr	88	149.167	ug/L	0.546	605212	8.658
Y	89		ug/L		240217	3.436
Ag	107	0.633	ug/L	9.810	962	0.013
Cd	111	2.527	ug/L	5.171	930	0.013
Cd	114		ug/L		469	0.007
> In	115		ug/L		69897	69896.951
Sn	120	1.274	ug/L	0.340	1953	0.026
Sb	121	0.389	ug/L	6.161	690	0.006
Sb	123		ug/L		522	0.005
Ba	135		ug/L		240525	2.838
Ba	137	626.469	ug/L	2.881	407318	4.806
Ho	165		ug/L		9588	0.113
> Lu	175		ug/L		84777	84777.086
Tl	205	0.714	ug/L	2.706	1752	0.020
Pb	208	66.278	ug/L	1.841	250625	2.954
Bi	209		ug/L		2615	0.031
U	238	24.776	ug/L	1.508	90803	1.070

Sample ID: 245136011

Report Date/Time: Sunday, February 14, 2010 08:01:10

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate	Rel. % Difference
Li	7						
Be	9						
B	11						
Na	23						
Mg	24						
Al	27						
P	31						
K	39						
Ca	43						
> Sc	45		93.2				
V	51						
Cr	52						
Cr	53						
Mn	55						
Fe	57						
Co	59						
Ni	60						
Cu	63						
Cu	65						
Zn	66						
Zn	67						
Zn	68						
> Ge	74		85.3				
As	75						
Se	77						
Se	82						
Kr	83						
Sr	88						
Y	89						
Ag	107						
Cd	111						
Cd	114						
> In	115		85.9				
Sn	120						
Sb	121						
Sb	123						
Ba	135						
Ba	137						
Ho	165						
> Lu	175		94.6				
Tl	205						
Pb	208						
Bi	209						
U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Al	27	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: 245136012

Sample Date/Time: Sunday, February 14, 2010 08:04:34

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\245136012.155

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	59.531	ug/L	2.297	41298	0.058
Be	9	3.973	ug/L	3.524	1086	0.002
B	11	15.866	ug/L	1.960	4697	0.006
Na	23	587.976	ug/L	5.817	1827521	2.550
Mg	24	8779.143	ug/L	11.514	16924384	23.771
Al	27	66361.923	ug/L	3.815	160589970	225.476
P	31	472.112	ug/L	0.892	65338	0.083
K	39	7899.489	ug/L	5.152	22817694	31.392
Ca	43	8447.965	ug/L	0.260	50853	0.071
> Sc	45		ug/L		711986	711985.500
V	51	71.814	ug/L	2.253	173724	0.252
Cr	52	36.704	ug/L	1.914	79465	0.111
Cr	53		ug/L		103658	-0.093
Mn	55	1031.046	ug/L	0.935	3432609	4.820
Fe	57	34867.836	ug/L	2.190	2203550	3.090
Co	59	18.262	ug/L	1.272	43102	0.060
Ni	60	29.455	ug/L	2.736	14362	0.020
Cu	63		ug/L		35984	0.050
Cu	65	33.880	ug/L	1.435	17525	0.024
Zn	66	112.176	ug/L	2.424	36857	0.266
Zn	67		ug/L		12531	0.026
Zn	68		ug/L		29607	0.208
> Ge	74		ug/L		138296	138295.921
As	75	9.703	ug/L	1.611	3574	0.028
Se	77		ug/L		4210	-0.029
Se	82	-0.999	ug/L	15.731	-42	-0.000
Kr	83		ug/L		148	0.001
Sr	88	94.107	ug/L	0.566	376973	5.462
Y	89		ug/L		225680	3.270
Ag	107	5.353	ug/L	0.975	7855	0.113
Cd	111	1.545	ug/L	11.328	566	0.008
Cd	114		ug/L		435	0.006
> In	115		ug/L		69008	69007.758
Sn	120	1.277	ug/L	2.810	1933	0.026
Sb	121	0.283	ug/L	7.276	561	0.005
Sb	123		ug/L		420	0.003
Ba	135		ug/L		183398	2.215
Ba	137	498.680	ug/L	1.197	316730	3.826
Ho	165		ug/L		8909	0.107
> Lu	175		ug/L		82791	82791.053
Tl	205	0.815	ug/L	2.711	1942	0.023
Pb	208	85.104	ug/L	0.462	314290	3.794
Bi	209		ug/L		2276	0.027
U	238	26.607	ug/L	0.132	95248	1.149

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
|	Li	7					
|	Be	9					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
>	Sc	45		91.4			
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74		84.0			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		84.8			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		92.4			
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Al	27	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: 245136013

Sample Date/Time: Sunday, February 14, 2010 08:10:31

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\6020 nolrs thlmozr.mth

Dataset File: C:\elandata\Dataset\100213\245136013.156

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	62.674 ug/L	1.664	41777	0.061
|	Be	9	4.487 ug/L	4.979	1177	0.002
|	B	11	21.581 ug/L	3.882	5887	0.008
|	Na	23	712.122 ug/L	9.017	2123220	3.089
|	Mg	24	9782.666 ug/L	1.811	18123504	26.488
|	Al	27	73059.693 ug/L	4.290	169854776	248.232
|	P	31	1002.663 ug/L	0.381	126247	0.175
|	K	39	10257.119 ug/L	6.776	28325414	40.761
|	Ca	43	12859.321 ug/L	2.183	74141	0.108
>	Sc	45	ug/L		684104	684104.237
|	V	51	78.041 ug/L	0.519	181938	0.274
|	Cr	52	38.128 ug/L	1.484	79320	0.115
|	Cr	53	ug/L		102540	-0.089
|	Mn	55	1249.453 ug/L	1.857	3997088	5.841
|	Fe	57	39284.222 ug/L	2.022	2385715	3.482
|	Co	59	19.650 ug/L	1.225	44553	0.065
|	Ni	60	32.091 ug/L	0.480	15034	0.022
|	Cu	63	ug/L		40807	0.059
|	Cu	65	40.669 ug/L	0.735	20197	0.029
[	Zn	66	128.617 ug/L	0.864	40787	0.305
|	Zn	67	ug/L		13320	0.035
|	Zn	68	ug/L		33750	0.246
>	Ge	74	ug/L		133513	133513.051
|	As	75	9.509 ug/L	4.985	3375	0.028
|	Se	77	ug/L		4163	-0.028
|	Se	82	-0.879 ug/L	53.396	-36	-0.000
|	Kr	83	ug/L		152	0.001
[	Sr	88	132.470 ug/L	1.007	507426	7.688
|	Y	89	ug/L		230271	3.489
|	Ag	107	3.363 ug/L	2.636	4729	0.071
|	Cd	111	2.487 ug/L	3.749	864	0.013
|	Cd	114	ug/L		572	0.008
>	In	115	ug/L		65990	65989.674
|	Sn	120	0.945 ug/L	3.319	1397	0.019
|	Sb	121	0.372 ug/L	4.579	633	0.006
|	Sb	123	ug/L		510	0.005
[	Ba	135	ug/L		241010	2.974
|	Ba	137	655.536 ug/L	1.054	407494	5.029
|	Ho	165	ug/L		9106	0.112
>	Lu	175	ug/L		81020	81019.578
|	Tl	205	0.839 ug/L	1.344	1955	0.023
|	Pb	208	89.400 ug/L	0.394	323073	3.985
|	Bi	209	ug/L		2877	0.035
|	U	238	38.182 ug/L	1.266	133732	1.650

Sample ID: 245136013

Report Date/Time: Sunday, February 14, 2010 08:13:02

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate	Rel. % Difference
Li	7						
Be	9						
B	11						
Na	23						
Mg	24						
Al	27						
P	31						
K	39						
Ca	43						
> Sc	45		87.8				
V	51						
Cr	52						
Cr	53						
Mn	55						
Fe	57						
Co	59						
Ni	60						
Cu	63						
Cu	65						
Zn	66						
Zn	67						
Zn	68						
> Ge	74		81.1				
As	75						
Se	77						
Se	82						
Kr	83						
Sr	88						
Y	89						
Ag	107						
Cd	111						
Cd	114						
> In	115		81.1				
Sn	120						
Sb	121						
Sb	123						
Ba	135						
Ba	137						
Ho	165						
> Lu	175		90.4				
Tl	205						
Pb	208						
Bi	209						
U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
	Al	27	Sample is out of limits (over linear range)
	Mn	55	Sample is out of limits (over linear range)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Sunday, February 14, 2010 08:16:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 6.157

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	57.471	ug/L	1.074	41576	0.056
Be	9	54.605	ug/L	1.722	15487	0.021
B	11	105.437	ug/L	4.158	28258	0.037
Na	23	4947.915	ug/L	5.592	15946920	21.461
Mg	24	5302.270	ug/L	2.993	10661229	14.357
Al	27	5037.170	ug/L	6.434	12711269	17.115
P	31	5168.395	ug/L	1.843	677793	0.904
K	39	4683.834	ug/L	5.360	14289160	18.613
Ca	43	4984.424	ug/L	1.242	31492	0.042
> Sc	45		ug/L		742373	742373.258
V	51	54.013	ug/L	2.002	134777	0.190
Cr	52	51.363	ug/L	0.220	115792	0.155
Cr	53		ug/L		123635	-0.072
Mn	55	52.860	ug/L	0.872	184799	0.247
Fe	57	5287.219	ug/L	0.222	351902	0.469
Co	59	50.309	ug/L	0.832	123548	0.166
Ni	60	49.715	ug/L	0.428	25244	0.034
Cu	63		ug/L		55532	0.075
Cu	65	49.367	ug/L	2.528	26581	0.036
Zn	66	52.484	ug/L	0.746	19212	0.124
Zn	67		ug/L		9371	-0.003
Zn	68		ug/L		14016	0.085
> Ge	74		ug/L		153698	153698.038
As	75	48.098	ug/L	0.642	21228	0.141
Se	77		ug/L		6472	-0.017
Se	82	49.448	ug/L	2.498	2029	0.013
Kr	83		ug/L		79	0.000
Sr	88	53.351	ug/L	2.026	236569	3.096
Y	89		ug/L		99	0.001
Ag	107	51.742	ug/L	0.542	83832	1.097
Cd	111	50.336	ug/L	1.385	20024	0.262
Cd	114		ug/L		45746	0.599
> In	115		ug/L		76387	76386.935
Sn	120	51.939	ug/L	1.998	81868	1.070
Sb	121	47.564	ug/L	16.435	59907	0.781
Sb	123		ug/L		45893	0.598
Ba	135		ug/L		19606	0.219
Ba	137	49.437	ug/L	0.631	34006	0.379
Ho	165		ug/L		16	0.000
> Lu	175		ug/L		89614	89613.505
Tl	205	50.825	ug/L	2.912	126006	1.406
Pb	208	53.468	ug/L	1.145	213784	2.383
Bi	209		ug/L		56	0.000
U	238	56.670	ug/L	0.074	219485	2.448

Sample ID: QC Std 6

Report Date/Time: Sunday, February 14, 2010 08:18:55

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7	114.941				
|	Be	9	109.210				
|	B	11	105.437				
|	Na	23	98.958				
|	Mg	24	106.045				
|	Al	27	99.746				
|	P	31	103.368				
|	K	39	93.677				
|	Ca	43	99.688				
>	Sc	45		95.3			
|	V	51	108.027				
|	Cr	52	102.726				
|	Cr	53					
|	Mn	55	105.720				
|	Fe	57	105.744				
|	Co	59	100.618				
|	Ni	60	99.431				
|	Cu	63					
|	Cu	65	98.735				
[	Zn	66	104.968				
|	Zn	67					
|	Zn	68					
>	Ge	74		93.4			
|	As	75	96.196				
|	Se	77					
|	Se	82	98.895				
|	Kr	83					
[	Sr	88	106.702				
|	Y	89					
|	Ag	107	103.485				
|	Cd	111	100.671				
|	Cd	114					
>	In	115		93.8			
|	Sn	120	103.878				
|	Sb	121	95.128				
|	Sb	123					
[	Ba	135					
|	Ba	137	98.874				
|	Ho	165					
>	Lu	175		100.0			
|	Tl	205	101.650				
|	Pb	208	106.937				
|	Bi	209					
|	U	238	113.341				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Li	7	7CCV is out of limits (+/- 10%)
QC Std 6	U	238	238CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Sunday, February 14, 2010 08:22:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 nolrs thtimozr.mth

Dataset File: C:\elandata\Dataset\100213\QC Std 7.158

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.104	ug/L	8.960	123	0.000
Be	9	-0.005	ug/L	119.502	4	-0.000
B	11	2.062	ug/L	27.836	1253	0.001
Na	23	0.418	ug/L	278.074	12339	0.002
Mg	24	-0.318	ug/L	410.048	3667	-0.001
Al	27	1.041	ug/L	37.630	5001	0.004
P	31	-3.052	ug/L	38.928	6217	-0.001
K	39	-10.271	ug/L	36.627	433825	-0.041
Ca	43	-5.425	ug/L	150.352	449	-0.000
> Sc	45		ug/L		717546	717546.053
V	51	1.851	ug/L	28.571	-1233	0.007
Cr	52	-0.225	ug/L	62.988	-49	-0.001
Cr	53		ug/L		147667	-0.033
Mn	55	0.071	ug/L	19.461	1536	0.000
Fe	57	4.834	ug/L	30.269	4209	0.000
Co	59	0.004	ug/L	241.339	162	0.000
Ni	60	0.022	ug/L	104.080	65	0.000
Cu	63		ug/L		166	0.000
Cu	65	-0.031	ug/L	23.720	75	-0.000
Zn	66	0.029	ug/L	39.617	96	0.000
Zn	67		ug/L		8552	-0.007
Zn	68		ug/L		808	-0.001
> Ge	74		ug/L		148989	148988.810
As	75	1.979	ug/L	17.371	484	0.006
Se	77		ug/L		7156	-0.011
Se	82	0.055	ug/L	1005.273	-3	0.000
Kr	83		ug/L		58	0.000
Sr	88	0.010	ug/L	14.190	117	0.001
Y	89		ug/L		53	0.000
Ag	107	0.001	ug/L	283.791	26	0.000
Cd	111	0.003	ug/L	531.104	13	0.000
Cd	114		ug/L		20	0.000
> In	115		ug/L		73956	73956.400
Sn	120	0.355	ug/L	17.354	667	0.007
Sb	121	1.953	ug/L	33.307	2638	0.032
Sb	123		ug/L		2011	0.024
Ba	135		ug/L		15	0.000
Ba	137	0.012	ug/L	67.402	28	0.000
Ho	165		ug/L		12	0.000
> Lu	175		ug/L		85418	85418.134
Tl	205	0.063	ug/L	35.965	227	0.002
Pb	208	0.018	ug/L	18.753	291	0.001
Bi	209		ug/L		19	0.000
U	238	0.063	ug/L	25.318	315	0.003

Sample ID: QC Std 7

Report Date/Time: Sunday, February 14, 2010 08:24:52

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	0.9999
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
>	Sc	45		92.1			
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74		90.5			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		90.8			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		95.3			
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	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 #6 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Tuesday, February 16, 2010 02:06:57

Sample Description:

Method File: C:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\100204\Sample.829

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		1669.9		1669.898	48.428	2.9
Mg	24.0		16921.0		16921.016	174.825	1.0
Co	58.9		22066.0		22066.029	147.794	0.7
Rh	102.9		40737.8		40737.805	330.804	0.8
In	114.9		51333.3		51333.275	641.193	1.2
Pb	208.0		23973.1		23973.100	279.555	1.2
[> Ba	137.9		43855.2		43855.161	274.275	0.6
[Ba++	69.0		1289.0		0.029	0.001	2.5
[> Ce	139.9		56751.5		56751.522	833.066	1.5
[CeO	155.9		1122.2		0.020	0.000	1.4
Bkgd	220.0		16.0		16.000	3.021	18.9

Current Optimization File Data

Current Value	Description
0.78	Nebulizer Gas Flow
14.00	Lens Voltage
1450.00	ICP RF Power
-1781.25	Analog Stage Voltage
900.00	Pulse Stage Voltage
40.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	17	9.0	2628.9
Co	59	17	9.8	22788.8
In	115	17	10.8	48270.7

ICPMS #6 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	585	2080	0.653
Be	9.0	9.0	2023	2080	0.671
Mg	24.0	24.0	5690	2120	0.661
Mg	25.0	25.0	5907	2080	0.730
Mg	26.0	26.0	6174	2120	0.754
Co	58.9	58.9	14162	2170	0.649
Rh	102.9	103.0	24873	2230	0.690
In	114.9	114.9	27781	2260	0.694
Ce	139.9	140.0	33863	2280	0.742
Pb	206.0	206.0	49948	2433	0.726
Pb	207.0	207.1	50147	2385	0.672
Pb	208.0	208.0	50463	2430	0.706
U	238.1	238.1	57730	2470	0.688

ICPMS#6 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, February 16, 2010 05:17:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\Blank.052

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175	ug/L		68041	
[U	238	ug/L		296	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> Lu	175					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: Blank

Report Date/Time: Tuesday, February 16, 2010 05:17:13

ICPMS#6 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, February 16, 2010 05:20:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\Standard 1.053

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		67535	67534.613
[	U	238	10.000 ug/L	1.127	41288	0.607

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175				
[U	238				

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, February 16, 2010 05:23:08

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\Standard 2.054

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		67697	67697.085
[	U	238	99.950 ug/L	2.062	391518	5.781

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, February 16, 2010 05:26:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\QC Std 1.055

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		66560	66560.034
[	U	238	53.251 ug/L	0.908	205276	3.080

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		97.8			
[	U	238	106.502				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, February 16, 2010 05:29:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\QC Std 2.056

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		67395	67394.938
[	U 238	0.033	ug/L	17.697	423	0.002

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu 175			99.1			
[U 238						

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, February 16, 2010 05:32:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\QC Std 3.057

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		69106	69106.452
[U 238	0.188	ug/L	5.898	1052	0.011

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[> Lu 175		101.6			
[U 238	93.991				

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#6 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, February 16, 2010 05:35:24

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\QC Std 4.058

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		67519	67518.534
[	U	238	ug/L	3.183	98	-0.003

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		99.2			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, February 16, 2010 05:38:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\QC Std 5.059

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		66711	66710.738
[	U	238	20.182 ug/L	0.795	78153	1.167

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		98.0		
[U	238	100.908			

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#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 16, 2010 05:41:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l.u.mth

Dataset File: c:\elandata\dataset\100215\QC Std 6.060

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		66436	66435.796
[	U	238	53.337 ug/L	1.121	205215	3.085

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		97.6			
[U	238	106.675				

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#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 16, 2010 05:44:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\QC Std 7.061

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu 175		ug/L		66769	66768.723
[	U 238	0.016	ug/L	52.265	351	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu 175		98.1			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 245136005

Sample Date/Time: Tuesday, February 16, 2010 05:47:42

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\245136005.062

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		77302	77302.034
[U 238	14.526	ug/L	1.251	65276	0.840

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[> Lu 175			113.6		
[U 238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 245136006

Sample Date/Time: Tuesday, February 16, 2010 05:50:47

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\l.u.mth

Dataset File: c:\elandata\dataset\100215\245136006.063

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		78567	78566.569
[U 238	3.641	ug/L	0.983	16884	0.211

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[> Lu 175		115.5			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 245136007

Sample Date/Time: Tuesday, February 16, 2010 05:53:53

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\245136007.064

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		78985	78984.874
[	U	238	11.316 ug/L	0.714	52037	0.654

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175				116.1			
[U	238							

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 245136008

Sample Date/Time: Tuesday, February 16, 2010 05:57:00

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\245136008.065

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		80453	80453.387
[U 238	5.237	ug/L	0.691	24720	0.303

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[> Lu 175		118.2			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 245136009

Sample Date/Time: Tuesday, February 16, 2010 06:00:06

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\245136009.066

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		78823	78822.661
[U 238	14.649	ug/L	0.153	67126	0.847

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[> Lu 175			115.8		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 245136010

Sample Date/Time: Tuesday, February 16, 2010 06:03:13

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\l.u.mth

Dataset File: c:\elandata\dataset\100215\245136010.067

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		79412	79412.245
[U 238	18.653	ug/L	0.986	86022	1.079

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[> Lu 175		116.7			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 245136011

Sample Date/Time: Tuesday, February 16, 2010 06:06:20

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\245136011.068

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		78714	78713.715
[U	238	18.195	ug/L	0.558	83173	1.052

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[> Lu	175					115.7			
[U	238								

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 245136012

Sample Date/Time: Tuesday, February 16, 2010 06:09:26

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\l.u.mth

Dataset File: c:\elandata\dataset\100215\245136012.069

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		78389	78388.932
[	U	238	19.728 ug/L	1.723	89782	1.141

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		115.2			
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: 245136013

Sample Date/Time: Tuesday, February 16, 2010 06:12:33

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944114|2|rmj

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\245136013.070

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		79529	79528.910
[U 238	27.417	ug/L	0.930	126462	1.586

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[> Lu 175			116.9		
[U 238					

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, February 16, 2010 06:15:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\QC Std 6.071

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		66478	66478.006
[	U	238	54.743 ug/L	0.847	210762	3.166

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		97.7		
[	U	238	109.487			

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
------------------	---------	----------------------------

QC Action

QC Action Line: No QC out of limits detected

ICPMS#6 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, February 16, 2010 06:18:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu.mth

Dataset File: c:\elandata\dataset\100215\QC Std 7.072

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		65049	65049.091
[	U	238	0.021 ug/L	21.284	361	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		95.6		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	Mass Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

=====
Analysis BegunLogged In Analyst: Administrator
Spectrometer Model: FIMS-100, S/N B050-9550Technique: AA FIMS-MHS
Autosampler Model: S10

Sample Information File: C:\data-AA\Administrator\Sample Information\020410S1.SIF

Batch ID:

Results Data Set: 020410S1

Results Library: C:\data-AA\Administrator\Results\Results.mdb

=====
Method Loaded

Method Name: WATER

Method Last Saved: 12/28/2009 15:47:50

Method Description: 7470A, 245.2, ILM04 ANALYST JXL

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank

Date Collected: 2/4/2010 08:44:57

Analyst:

Data Type: Original

Replicate Data: Calib Blank

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.00]	0.0002	0.0007	0.0002	08:46:00	Yes
2		[0.00]	0.0002	0.0004	0.0002	08:46:34	Yes
Mean:		[0.00]	0.0002				
SD:		0.00	0.0000				
%RSD:		0.00	13.47				

Auto-zero performed.

Sequence No.: 2

Autosampler Location: 2

Sample ID: S0.2

Date Collected: 2/4/2010 08:46:53

Analyst:

Data Type: Original

Replicate Data: S0.2

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.2]	0.0023	0.0090	0.0024	08:47:54	Yes
2		[0.2]	0.0023	0.0086	0.0025	08:48:29	Yes
Mean:		[0.2]	0.0023				
SD:		0.0	0.0000				
%RSD:		0.0	0.06				

Standard number 1 applied. [0.2]

Correlation Coef.: 1.000000 Slope: 0.01131 Intercept: 0.00000

Sequence No.: 3

Autosampler Location: 3

Sample ID: S0.5

Date Collected: 2/4/2010 08:48:48

Analyst:

Data Type: Original

Replicate Data: S0.5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.5]	0.0058	0.0233	0.0060	08:49:49	Yes
2		[0.5]	0.0057	0.0222	0.0059	08:50:23	Yes
Mean:		[0.5]	0.0058				
SD:		0.0	0.0001				
%RSD:		0.0	1.14				

Standard number 2 applied. [0.5]

Correlation Coef.: 0.999971 Slope: 0.01152 Intercept: -0.00002

Sequence No.: 4

Autosampler Location: 4

Sample ID: S2.0

Date Collected: 2/4/2010 08:50:43

Analyst:

Data Type: Original

Replicate Data: S2.0

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2.0]	0.0237	0.0959	0.0239	08:51:45	Yes
2		[2.0]	0.0236	0.0952	0.0238	08:52:19	Yes
Mean:		[2.0]	0.0237				
SD:		0.0	0.0001				
%RSD:		0.0	0.39				

Standard number 3 applied. [2.0]
Correlation Coef.: 0.999974 Slope: 0.01187 Intercept: -0.00009

Sequence No.: 5

Autosampler Location: 5

Sample ID: S5.0

Date Collected: 2/4/2010 08:52:39

Analyst:

Data Type: Original

Replicate Data: S5.0

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.0583	0.2349	0.0585	08:53:41	Yes
2		[5.0]	0.0579	0.2323	0.0581	08:54:16	Yes
Mean:		[5.0]	0.0581				
SD:		0.0	0.0002				
%RSD:		0.0	0.41				

Standard number 4 applied. [5.0]
Correlation Coef.: 0.999963 Slope: 0.01164 Intercept: 0.00003

Sequence No.: 6

Autosampler Location: 6

Sample ID: S10.0

Date Collected: 2/4/2010 08:54:36

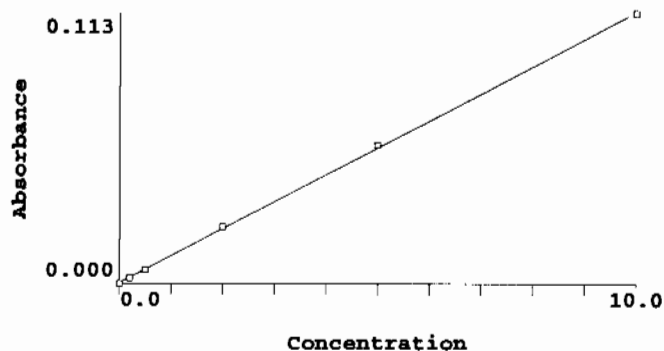
Analyst:

Data Type: Original

Replicate Data: S10.0

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.1133	0.4583	0.1135	08:55:36	Yes
2		[10.0]	0.1124	0.4529	0.1126	08:56:11	Yes
Mean:		[10.0]	0.1128				
SD:		0.0	0.0006				
%RSD:		0.0	0.55				

Standard number 5 applied. [10.0]
Correlation Coef.: 0.999867 Slope: 0.01131 Intercept: 0.00041

-----
Calibration data for Hg 253.7

Equation: Linear, Calculated Intercept

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	-0.036	0.00	13.5
S0.2	0.0023	0.2	0.164	0.00	0.1
S0.5	0.0058	0.5	0.473	0.00	1.1
S2.0	0.0237	2.0	2.058	0.00	0.4

S5.0	0.0581	5.0	5.101	0.00	0.4
S10.0	0.1128	10.0	9.940	0.00	0.5

Correlation Coef.: 0.999867 Slope: 0.01131 Intercept: 0.00041

Sequence No.: 7

Autosampler Location: 9

Sample ID: ICV

Date Collected: 2/4/2010 08:56:30

Analyst:

Data Type: Original

Replicate Data: ICV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.169	5.169	0.0589	0.2377	0.0591	08:57:31	Yes
2	5.095	5.095	0.0580	0.2345	0.0582	08:58:06	Yes
Mean:	5.132	5.132	0.0585				
SD:	0.053	0.053	0.0006				
%RSD:	1.028	1.028	1.02				

QC value within limits for Hg 253.7 Recovery = 102.64%

All analyte(s) passed QC.

Sequence No.: 8

Autosampler Location: 10

Sample ID: ICB

Date Collected: 2/4/2010 08:58:26

Analyst:

Data Type: Original

Replicate Data: ICB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.037	-0.037	-0.0000	-0.0008	0.0002	08:59:27	Yes
2	-0.034	-0.034	0.0000	-0.0005	0.0002	09:00:02	Yes
Mean:	-0.036	-0.036	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	6.056	6.056	>999.9%				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 9

Autosampler Location: 11

Sample ID: CRDL

Date Collected: 2/4/2010 09:00:22

Analyst:

Data Type: Original

Replicate Data: CRDL

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.194	0.194	0.0026	0.0100	0.0028	09:01:24	Yes
2	0.194	0.194	0.0026	0.0103	0.0028	09:01:58	Yes
Mean:	0.194	0.194	0.0026				
SD:	0.000	0.000	0.0000				
%RSD:	0.174	0.174	0.15				

QC value within limits for Hg 253.7 Recovery = 96.89%

All analyte(s) passed QC.

Sequence No.: 10

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/4/2010 09:02:18

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.979	4.979	0.0567	0.2298	0.0569	09:03:19	Yes
2	4.952	4.952	0.0564	0.2282	0.0566	09:03:54	Yes
Mean:	4.965	4.965	0.0566				
SD:	0.020	0.020	0.0002				
%RSD:	0.393	0.393	0.39				

QC value within limits for Hg 253.7 Recovery = 99.31%

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 2/4/2010 09:04:13
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.043	-0.043	-0.0001	-0.0013	0.0001	09:05:14	Yes
2	-0.045	-0.045	-0.0001	-0.0011	0.0001	09:05:48	Yes
Mean:	-0.044	-0.044	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	2.761	2.761	14.72				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 12
Sample ID: 1202025230|945591|1
Analyst: JXL

Autosampler Location: 12
Date Collected: 2/4/2010 09:06:08
Data Type: Original

Replicate Data: 1202025230|945591|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.036	-0.036	0.0000	-0.0003	0.0002	09:07:09	Yes
2	-0.039	-0.039	-0.0000	-0.0003	0.0002	09:07:44	Yes
Mean:	-0.037	-0.037	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	5.900	5.900	177.27				

Sequence No.: 13
Sample ID: 1202025231|945591|10
Analyst: JXL

Autosampler Location: 13
Date Collected: 2/4/2010 09:08:04
Data Type: Original

Replicate Data: 1202025231|945591|10

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.814	3.814	0.0435	0.1759	0.0437	09:09:06	Yes
2	3.790	3.790	0.0433	0.1735	0.0435	09:09:41	Yes
Mean:	3.802	3.802	0.0434				
SD:	0.017	0.017	0.0002				
%RSD:	0.442	0.442	0.44				

Sequence No.: 14
Sample ID: 245119001|945591|1
Analyst: JXL

Autosampler Location: 14
Date Collected: 2/4/2010 09:10:02
Data Type: Original

Replicate Data: 245119001|945591|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.188	0.188	0.0025	0.0102	0.0027	09:11:03	Yes
2	0.188	0.188	0.0025	0.0099	0.0027	09:11:37	Yes
Mean:	0.188	0.188	0.0025				
SD:	0.000	0.000	0.0000				
%RSD:	0.213	0.213	0.18				

Sequence No.: 15
Sample ID: 1202025232|945591|1
Analyst: JXL

Autosampler Location: 15
Date Collected: 2/4/2010 09:11:56
Data Type: Original

Replicate Data: 1202025232|945591|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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Replicate Data: 245119003|945591|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.137	0.137	0.0020	0.0082	0.0021	09:22:30	Yes
2	0.141	0.141	0.0020	0.0083	0.0022	09:23:05	Yes
Mean:	0.139	0.139	0.0020				
SD:	0.003	0.003	0.0000				
%RSD:	2.025	2.025	1.61				

=====

Sequence No.: 21
Sample ID: 245119004|945591|1
Analyst: JXLAutosampler Location: 21
Date Collected: 2/4/2010 09:23:25
Data Type: Original-----
Replicate Data: 245119004|945591|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.293	0.293	0.0037	0.0153	0.0039	09:24:26	Yes
2	0.300	0.300	0.0038	0.0159	0.0040	09:25:01	Yes
Mean:	0.296	0.296	0.0038				
SD:	0.005	0.005	0.0001				
%RSD:	1.625	1.625	1.45				

=====

Sequence No.: 22
Sample ID: CCV
Analyst:Autosampler Location: 7
Date Collected: 2/4/2010 09:25:20
Data Type: Original-----
Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.929	4.929	0.0562	0.2308	0.0563	09:26:21	Yes
2	4.919	4.919	0.0560	0.2293	0.0562	09:26:55	Yes
Mean:	4.924	4.924	0.0561				
SD:	0.007	0.007	0.0001				
%RSD:	0.139	0.139	0.14				

QC value within limits for Hg 253.7 Recovery = 98.48%
All analyte(s) passed QC.

=====

Sequence No.: 23
Sample ID: CCB
Analyst:Autosampler Location: 8
Date Collected: 2/4/2010 09:27:14
Data Type: Original-----
Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.038	-0.038	-0.0000	0.0004	0.0002	09:28:15	Yes
2	-0.042	-0.042	-0.0001	-0.0002	0.0001	09:28:50	Yes
Mean:	-0.040	-0.040	-0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	7.595	7.595	78.30				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 24
Sample ID: 245119005|945591|1
Analyst: JXLAutosampler Location: 22
Date Collected: 2/4/2010 09:29:10
Data Type: Original-----
Replicate Data: 245119005|945591|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.261	0.261	0.0034	0.0142	0.0035	09:30:11	Yes
2	0.267	0.267	0.0034	0.0145	0.0036	09:30:46	Yes

Sequence No.: 34

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/4/2010 09:48:25

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.993	4.993	0.0569	0.2365	0.0571	09:49:26	Yes
2	4.991	4.991	0.0569	0.2343	0.0571	09:50:00	Yes
Mean:	4.992	4.992	0.0569				
SD:	0.001	0.001	0.0000				
%RSD:	0.027	0.027	0.03				

QC value within limits for Hg 253.7 Recovery = 99.84%

All analyte(s) passed QC.

Sequence No.: 35

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/4/2010 09:50:19

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.030	-0.030	0.0001	0.0009	0.0003	09:51:20	Yes
2	-0.031	-0.031	0.0001	0.0006	0.0002	09:51:55	Yes
Mean:	-0.031	-0.031	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	3.440	3.440	20.12				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 36

Sample ID: 245119015|945591|1

Analyst: JXL

Autosampler Location: 32

Date Collected: 2/4/2010 09:52:14

Data Type: Original

Replicate Data: 245119015|945591|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.154	0.154	0.0021	0.0095	0.0023	09:53:15	Yes
2	0.151	0.151	0.0021	0.0087	0.0023	09:53:51	Yes
Mean:	0.152	0.152	0.0021				
SD:	0.002	0.002	0.0000				
%RSD:	1.590	1.590	1.29				

Sequence No.: 37

Sample ID: 245119016|945591|1

Analyst: JXL

Autosampler Location: 33

Date Collected: 2/4/2010 09:54:10

Data Type: Original

Replicate Data: 245119016|945591|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.354	0.354	0.0044	0.0186	0.0046	09:55:11	Yes
2	0.357	0.357	0.0044	0.0191	0.0046	09:55:46	Yes
Mean:	0.356	0.356	0.0044				
SD:	0.002	0.002	0.0000				
%RSD:	0.550	0.550	0.50				

Sequence No.: 38

Sample ID: 1202024847|945440|1

Analyst: JXL

Autosampler Location: 34

Date Collected: 2/4/2010 09:56:06

Data Type: Original

Replicate Data: 1202024847|945440|1

Analyst: JXL

Data Type: Original

Replicate Data: 1202024852|945440|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.245	2.245	0.0258	0.1063	0.0260	10:06:50	Yes
2	2.228	2.228	0.0256	0.1064	0.0258	10:07:25	Yes
Mean:	2.237	2.237	0.0257				
SD:	0.012	0.012	0.0001				
%RSD:	0.531	0.531	0.52				

Sequence No.: 44

Autosampler Location: 40

Sample ID: 1202024851|945440|5

Date Collected: 2/4/2010 10:07:44

Analyst: JXL

Data Type: Original

Replicate Data: 1202024851|945440|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.000	0.000	0.0004	0.0025	0.0006	10:08:45	Yes
2	-0.003	-0.003	0.0004	0.0024	0.0006	10:09:20	Yes
Mean:	-0.002	-0.002	0.0004				
SD:	0.001	0.001	0.0000				
%RSD:	96.34	96.34	4.26				

Sequence No.: 45

Autosampler Location: 41

Sample ID: 245134002|945440|1

Date Collected: 2/4/2010 10:09:39

Analyst: JXL

Data Type: Original

Replicate Data: 245134002|945440|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.039	0.039	0.0008	0.0038	0.0010	10:10:40	Yes
2	0.047	0.047	0.0009	0.0046	0.0011	10:11:15	Yes
Mean:	0.043	0.043	0.0009				
SD:	0.006	0.006	0.0001				
%RSD:	13.44	13.44	7.31				

Sequence No.: 46

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/4/2010 10:11:35

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.020	5.020	0.0572	0.2369	0.0574	10:12:35	Yes
2	5.017	5.017	0.0572	0.2359	0.0573	10:13:10	Yes
Mean:	5.018	5.018	0.0572				
SD:	0.002	0.002	0.0000				
%RSD:	0.050	0.050	0.05				

QC value within limits for Hg 253.7 Recovery = 100.37%
All analyte(s) passed QC.

Sequence No.: 47

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/4/2010 10:13:29

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.033	-0.033	0.0000	0.0004	0.0002	10:14:30	Yes
2	-0.027	-0.027	0.0001	0.0014	0.0003	10:15:05	Yes
Mean:	-0.030	-0.030	0.0001				

SD: 0.004 0.004 0.0000
%RSD: 13.87 13.87 74.32

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 48

Sample ID: 245134003|945440|1

Analyst: JXL

Autosampler Location: 42

Date Collected: 2/4/2010 10:15:24

Data Type: Original

Replicate Data: 245134003|945440|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.696	0.696	0.0083	0.0347	0.0085	10:16:26	Yes
2	0.692	0.692	0.0082	0.0342	0.0084	10:17:01	Yes
Mean:	0.694	0.694	0.0083				
SD:	0.003	0.003	0.0000				
%RSD:	0.386	0.386	0.37				

Sequence No.: 49

Sample ID: 245134004|945440|1

Analyst: JXL

Autosampler Location: 43

Date Collected: 2/4/2010 10:17:20

Data Type: Original

Replicate Data: 245134004|945440|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.671	0.671	0.0080	0.0335	0.0082	10:18:21	Yes
2	0.669	0.669	0.0080	0.0335	0.0082	10:18:56	Yes
Mean:	0.670	0.670	0.0080				
SD:	0.002	0.002	0.0000				
%RSD:	0.293	0.293	0.28				

Sequence No.: 50

Sample ID: 245134005|945440|1

Analyst: JXL

Autosampler Location: 44

Date Collected: 2/4/2010 10:19:15

Data Type: Original

Replicate Data: 245134005|945440|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.225	0.225	0.0030	0.0127	0.0031	10:20:17	Yes
2	0.226	0.226	0.0030	0.0128	0.0032	10:20:52	Yes
Mean:	0.226	0.226	0.0030				
SD:	0.001	0.001	0.0000				
%RSD:	0.362	0.362	0.31				

Sequence No.: 51

Sample ID: 245134006|945440|1

Analyst: JXL

Autosampler Location: 45

Date Collected: 2/4/2010 10:21:11

Data Type: Original

Replicate Data: 245134006|945440|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.261	0.261	0.0034	0.0147	0.0035	10:22:12	Yes
2	0.262	0.262	0.0034	0.0144	0.0036	10:22:47	Yes
Mean:	0.262	0.262	0.0034				
SD:	0.000	0.000	0.0000				
%RSD:	0.159	0.159	0.14				

Sequence No.: 52

Sample ID: 245134007|945440|1

Analyst: JXL

Autosampler Location: 46

Date Collected: 2/4/2010 10:23:07

Data Type: Original

Replicate Data: 245134007|945440|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.469	3.469	0.0396	0.1644	0.0398	10:24:08	Yes
2	3.474	3.474	0.0397	0.1644	0.0399	10:24:43	Yes
Mean:	3.471	3.471	0.0397				
SD:	0.004	0.004	0.0000				
%RSD:	0.119	0.119	0.12				

Sequence No.: 53

Sample ID: 245134008|945440|1

Analyst: JXL

Autosampler Location: 47

Date Collected: 2/4/2010 10:25:03

Data Type: Original

Replicate Data: 245134008|945440|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.906	4.906	0.0559	0.2313	0.0561	10:26:04	Yes
2	4.845	4.845	0.0552	0.2288	0.0554	10:26:39	Yes
Mean:	4.875	4.875	0.0555				
SD:	0.043	0.043	0.0005				
%RSD:	0.885	0.885	0.88				

Sequence No.: 54

Sample ID: 245134009|945440|1

Analyst: JXL

Autosampler Location: 48

Date Collected: 2/4/2010 10:26:59

Data Type: Original

Replicate Data: 245134009|945440|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.102	4.102	0.0468	0.1946	0.0470	10:28:01	Yes
2	4.098	4.098	0.0468	0.1950	0.0469	10:28:36	Yes
Mean:	4.100	4.100	0.0468				
SD:	0.003	0.003	0.0000				
%RSD:	0.075	0.075	0.07				

Sequence No.: 55

Sample ID: 245134010|945440|1

Analyst: JXL

Autosampler Location: 49

Date Collected: 2/4/2010 10:28:56

Data Type: Original

Replicate Data: 245134010|945440|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.823	5.823	0.0663	0.2747	0.0665	10:29:58	Yes
2	5.853	5.853	0.0666	0.2755	0.0668	10:30:32	Yes
Mean:	5.838	5.838	0.0664				
SD:	0.021	0.021	0.0002				
%RSD:	0.356	0.356	0.35				

Sequence No.: 56

Sample ID: 1202024863|945445|1

Analyst: JXL

Autosampler Location: 50

Date Collected: 2/4/2010 10:30:53

Data Type: Original

Replicate Data: 1202024863|945445|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.031	-0.031	0.0001	0.0008	0.0002	10:31:54	Yes
2	-0.026	-0.026	0.0001	0.0009	0.0003	10:32:29	Yes
Mean:	-0.029	-0.029	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	14.41	14.41	55.97				

Sequence No.: 57

Autosampler Location: 51

Sample ID: 1202024864|945445|10
Analyst: JXL

Date Collected: 2/4/2010 10:32:48
Data Type: Original

Replicate Data: 1202024864|945445|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.675	3.675	0.0420	0.1728	0.0422	10:33:50	Yes
2	3.651	3.651	0.0417	0.1712	0.0419	10:34:25	Yes
Mean:	3.663	3.663	0.0418				
SD:	0.018	0.018	0.0002				
%RSD:	0.480	0.480	0.47				

Sequence No.: 58

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/4/2010 10:34:45

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.017	5.017	0.0572	0.2360	0.0573	10:35:45	Yes
2	5.021	5.021	0.0572	0.2356	0.0574	10:36:20	Yes
Mean:	5.019	5.019	0.0572				
SD:	0.003	0.003	0.0000				
%RSD:	0.060	0.060	0.06				

QC value within limits for Hg 253.7 Recovery = 100.38%

All analyte(s) passed QC.

Sequence No.: 59

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/4/2010 10:36:39

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.027	-0.027	0.0001	0.0011	0.0003	10:37:39	Yes
2	-0.024	-0.024	0.0001	0.0011	0.0003	10:38:14	Yes
Mean:	-0.026	-0.026	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	8.319	8.319	21.42				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 60

Autosampler Location: 52

Sample ID: 245136001|945445|1

Date Collected: 2/4/2010 10:38:34

Analyst: JXL

Data Type: Original

Replicate Data: 245136001|945445|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.231	0.231	0.0030	0.0125	0.0032	10:39:35	Yes
2	0.229	0.229	0.0030	0.0129	0.0032	10:40:10	Yes
Mean:	0.230	0.230	0.0030				
SD:	0.001	0.001	0.0000				
%RSD:	0.612	0.612	0.53				

Sequence No.: 61

Autosampler Location: 53

Sample ID: 1202024865|945445|1

Date Collected: 2/4/2010 10:40:30

Analyst: JXL

Data Type: Original

Replicate Data: 1202024865|945445|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored

1	0.254	0.254	0.0033	0.0138	0.0035	10:41:31	Yes
2	0.262	0.262	0.0034	0.0147	0.0036	10:42:06	Yes
Mean:	0.258	0.258	0.0033				
SD:	0.006	0.006	0.0001				
%RSD:	2.295	2.295	2.02				

Sequence No.: 62

Autosampler Location: 54

Sample ID: 1202024866|945445|1

Date Collected: 2/4/2010 10:42:25

Analyst: JXL

Data Type: Original

Replicate Data: 1202024866|945445|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.277	2.277	0.0262	0.1086	0.0263	10:43:27	Yes
2	2.282	2.282	0.0262	0.1090	0.0264	10:44:01	Yes
Mean:	2.280	2.280	0.0262				
SD:	0.004	0.004	0.0000				
%RSD:	0.175	0.175	0.17				

Sequence No.: 63

Autosampler Location: 55

Sample ID: 1202024868|945445|1

Date Collected: 2/4/2010 10:44:21

Analyst: JXL

Data Type: Original

Replicate Data: 1202024868|945445|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.235	2.235	0.0257	0.1066	0.0259	10:45:22	Yes
2	2.232	2.232	0.0257	0.1061	0.0258	10:45:57	Yes
Mean:	2.234	2.234	0.0257				
SD:	0.002	0.002	0.0000				
%RSD:	0.096	0.096	0.09				

Sequence No.: 64

Autosampler Location: 56

Sample ID: 1202024867|945445|5

Date Collected: 2/4/2010 10:46:17

Analyst: JXL

Data Type: Original

Replicate Data: 1202024867|945445|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.020	0.020	0.0006	0.0031	0.0008	10:47:18	Yes
2	0.023	0.023	0.0007	0.0035	0.0009	10:47:53	Yes
Mean:	0.021	0.021	0.0006				
SD:	0.003	0.003	0.0000				
%RSD:	11.80	11.80	4.41				

Sequence No.: 65

Autosampler Location: 57

Sample ID: 245136002|945445|1

Date Collected: 2/4/2010 10:48:13

Analyst: JXL

Data Type: Original

Replicate Data: 245136002|945445|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.329	0.329	0.0041	0.0182	0.0043	10:49:14	Yes
2	0.334	0.334	0.0042	0.0180	0.0044	10:49:49	Yes
Mean:	0.332	0.332	0.0042				
SD:	0.003	0.003	0.0000				
%RSD:	0.967	0.967	0.87				

Sequence No.: 66

Autosampler Location: 58

Sample ID: 245136003|945445|1

Date Collected: 2/4/2010 10:50:08

Analyst: JXL

Data Type: Original

Replicate Data: 245136003|945445|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.265	0.265	0.0034	0.0145	0.0036	10:51:10	Yes
2	0.268	0.268	0.0034	0.0154	0.0036	10:51:45	Yes
Mean:	0.267	0.267	0.0034				
SD:	0.002	0.002	0.0000				
%RSD:	0.893	0.893	0.79				

Sequence No.: 67

Sample ID: 245136004|945445|1

Analyst: JXL

Autosampler Location: 59

Date Collected: 2/4/2010 10:52:05

Data Type: Original

Replicate Data: 245136004|945445|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.216	0.216	0.0029	0.0119	0.0030	10:53:07	Yes
2	0.219	0.219	0.0029	0.0115	0.0031	10:53:41	Yes
Mean:	0.218	0.218	0.0029				
SD:	0.002	0.002	0.0000				
%RSD:	0.961	0.961	0.82				

Sequence No.: 68

Sample ID: 245136005|945445|1

Analyst: JXL

Autosampler Location: 60

Date Collected: 2/4/2010 10:54:01

Data Type: Original

Replicate Data: 245136005|945445|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.392	0.392	0.0048	0.0208	0.0050	10:55:03	Yes
2	0.375	0.375	0.0046	0.0193	0.0048	10:55:38	Yes
Mean:	0.383	0.383	0.0047				
SD:	0.012	0.012	0.0001				
%RSD:	3.111	3.111	2.84				

Sequence No.: 69

Sample ID: 245136006|945445|1

Analyst: JXL

Autosampler Location: 61

Date Collected: 2/4/2010 10:55:58

Data Type: Original

Replicate Data: 245136006|945445|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.138	0.138	0.0020	0.0081	0.0022	10:57:00	Yes
2	0.143	0.143	0.0020	0.0087	0.0022	10:57:35	Yes
Mean:	0.141	0.141	0.0020				
SD:	0.003	0.003	0.0000				
%RSD:	2.183	2.183	1.74				

Sequence No.: 70

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/4/2010 10:57:56

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.065	5.065	0.0577	0.2375	0.0579	10:58:57	Yes
2	5.022	5.022	0.0572	0.2346	0.0574	10:59:31	Yes
Mean:	5.043	5.043	0.0575				
SD:	0.030	0.030	0.0003				
%RSD:	0.602	0.602	0.60				

QC value within limits for Hg 253.7 Recovery = 100.87%
All analyte(s) passed QC.

Sequence No.: 71

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/4/2010 10:59:51

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.029	-0.029	0.0001	0.0011	0.0003	11:00:52	Yes
2	-0.033	-0.033	0.0000	-0.0000	0.0002	11:01:27	Yes
Mean:	-0.031	-0.031	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	9.316	9.316	54.21				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 72

Sample ID: 245136007|945445|1

Analyst: JXL

Autosampler Location: 62

Date Collected: 2/4/2010 11:01:46

Data Type: Original

Replicate Data: 245136007|945445|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.214	0.214	0.0028	0.0126	0.0030	11:02:47	Yes
2	0.218	0.218	0.0029	0.0120	0.0031	11:03:22	Yes
Mean:	0.216	0.216	0.0028				
SD:	0.003	0.003	0.0000				
%RSD:	1.299	1.299	1.11				

Sequence No.: 73

Sample ID: 245136008|945445|1

Analyst: JXL

Autosampler Location: 63

Date Collected: 2/4/2010 11:03:42

Data Type: Original

Replicate Data: 245136008|945445|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.601	0.601	0.0072	0.0298	0.0074	11:04:43	Yes
2	0.596	0.596	0.0071	0.0302	0.0073	11:05:18	Yes
Mean:	0.598	0.598	0.0072				
SD:	0.003	0.003	0.0000				
%RSD:	0.540	0.540	0.51				

Sequence No.: 74

Sample ID: 245136009|945445|1

Analyst: JXL

Autosampler Location: 64

Date Collected: 2/4/2010 11:05:38

Data Type: Original

Replicate Data: 245136009|945445|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.498	0.498	0.0060	0.0251	0.0062	11:06:39	Yes
2	0.496	0.496	0.0060	0.0250	0.0062	11:07:14	Yes
Mean:	0.497	0.497	0.0060				
SD:	0.001	0.001	0.0000				
%RSD:	0.230	0.230	0.21				

Sequence No.: 75

Sample ID: 245136010|945445|1

Analyst: JXL

Autosampler Location: 65

Date Collected: 2/4/2010 11:07:34

Data Type: Original

Replicate Data: 245136010|945445|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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#	ug/L	ug/L	Signal	Area	Height		Stored
1	10.47	10.47	0.1189	0.4897	0.1191	11:08:35	Yes
2	10.42	10.42	0.1183	0.4913	0.1184	11:09:10	Yes
Mean:	10.45	10.45	0.1186				
SD:	0.040	0.040	0.0004				
%RSD:	0.379	0.379	0.38				

Sequence No.: 76

Autosampler Location: 66

Sample ID: 245136011|945445|1

Date Collected: 2/4/2010 11:09:30

Analyst: JXL

Data Type: Original

Replicate Data: 245136011|945445|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.379	0.379	0.0047	0.0199	0.0049	11:10:31	Yes
2	0.368	0.368	0.0046	0.0187	0.0048	11:11:06	Yes
Mean:	0.373	0.373	0.0046				
SD:	0.008	0.008	0.0001				
%RSD:	2.109	2.109	1.92				

Sequence No.: 77

Autosampler Location: 67

Sample ID: 245136012|945445|1

Date Collected: 2/4/2010 11:11:26

Analyst: JXL

Data Type: Original

Replicate Data: 245136012|945445|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.304	0.304	0.0038	0.0164	0.0040	11:12:27	Yes
2	0.300	0.300	0.0038	0.0164	0.0040	11:13:02	Yes
Mean:	0.302	0.302	0.0038				
SD:	0.003	0.003	0.0000				
%RSD:	0.842	0.842	0.75				

Sequence No.: 78

Autosampler Location: 68

Sample ID: 245136013|945445|1

Date Collected: 2/4/2010 11:13:22

Analyst: JXL

Data Type: Original

Replicate Data: 245136013|945445|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.585	0.585	0.0070	0.0296	0.0072	11:14:23	Yes
2	0.570	0.570	0.0069	0.0295	0.0070	11:14:58	Yes
Mean:	0.578	0.578	0.0069				
SD:	0.011	0.011	0.0001				
%RSD:	1.909	1.909	1.80				

Sequence No.: 79

Autosampler Location: 69

Sample ID: 1202025295|945625|1

Date Collected: 2/4/2010 11:15:18

Analyst: JXL

Data Type: Original

Replicate Data: 1202025295|945625|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.027	-0.027	0.0001	0.0012	0.0003	11:16:19	Yes
2	-0.030	-0.030	0.0001	0.0006	0.0002	11:16:54	Yes
Mean:	-0.029	-0.029	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	9.517	9.517	36.84				

Sequence No.: 80

Autosampler Location: 70

Sample ID: 1202025296|945625|10

Date Collected: 2/4/2010 11:17:14

Analyst: JXL

Data Type: Original

Replicate Data: 1202025296|945625|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.572	3.572	0.0408	0.1678	0.0410	11:18:15	Yes
2	3.566	3.566	0.0407	0.1662	0.0409	11:18:51	Yes
Mean:	3.569	3.569	0.0408				
SD:	0.004	0.004	0.0000				
%RSD:	0.112	0.112	0.11				

=====

Sequence No.: 81
Sample ID: 245391001|945625|1
Analyst: JXLAutosampler Location: 71
Date Collected: 2/4/2010 11:19:10
Data Type: Original-----
Replicate Data: 245391001|945625|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.417	0.417	0.0051	0.0211	0.0053	11:20:12	Yes
2	0.421	0.421	0.0052	0.0220	0.0054	11:20:47	Yes
Mean:	0.419	0.419	0.0051				
SD:	0.003	0.003	0.0000				
%RSD:	0.618	0.618	0.57				

=====

Sequence No.: 82
Sample ID: CCV
Analyst:Autosampler Location: 7
Date Collected: 2/4/2010 11:21:07
Data Type: Original-----
Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.906	4.906	0.0559	0.2297	0.0561	11:22:07	Yes
2	4.923	4.923	0.0561	0.2302	0.0563	11:22:42	Yes
Mean:	4.914	4.914	0.0560				
SD:	0.012	0.012	0.0001				
%RSD:	0.240	0.240	0.24				

QC value within limits for Hg 253.7 Recovery = 98.29%
All analyte(s) passed QC.

=====

Sequence No.: 83
Sample ID: CCB
Analyst:Autosampler Location: 8
Date Collected: 2/4/2010 11:23:01
Data Type: Original-----
Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.027	-0.027	0.0001	0.0006	0.0003	11:24:02	Yes
2	-0.024	-0.024	0.0001	0.0013	0.0003	11:24:37	Yes
Mean:	-0.026	-0.026	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	8.817	8.817	22.47				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 84
Sample ID: 1202025297|945625|1
Analyst: JXLAutosampler Location: 72
Date Collected: 2/4/2010 11:24:56
Data Type: Original-----
Replicate Data: 1202025297|945625|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.355	0.355	0.0044	0.0192	0.0046	11:25:58	Yes
2	0.344	0.344	0.0043	0.0182	0.0045	11:26:33	Yes

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.128	0.128	0.0019	0.0079	0.0020	11:35:40	Yes
2	0.123	0.123	0.0018	0.0076	0.0020	11:36:15	Yes
Mean:	0.125	0.125	0.0018				
SD:	0.004	0.004	0.0000				
%RSD:	2.902	2.902	2.26				

Sequence No.: 90

Autosampler Location: 78

Sample ID: 245391004|945625|1

Date Collected: 2/4/2010 11:36:35

Analyst: JXL

Data Type: Original

Replicate Data: 245391004|945625|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.330	0.330	0.0041	0.0178	0.0043	11:37:37	Yes
2	0.327	0.327	0.0041	0.0171	0.0043	11:38:11	Yes
Mean:	0.329	0.329	0.0041				
SD:	0.002	0.002	0.0000				
%RSD:	0.492	0.492	0.44				

Sequence No.: 91

Autosampler Location: 79

Sample ID: 245391005|945625|1

Date Collected: 2/4/2010 11:38:31

Analyst: JXL

Data Type: Original

Replicate Data: 245391005|945625|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.309	0.309	0.0039	0.0162	0.0041	11:39:33	Yes
2	0.320	0.320	0.0040	0.0180	0.0042	11:40:08	Yes
Mean:	0.315	0.315	0.0040				
SD:	0.008	0.008	0.0001				
%RSD:	2.464	2.464	2.21				

Sequence No.: 92

Autosampler Location: 80

Sample ID: 245391006|945625|1

Date Collected: 2/4/2010 11:40:28

Analyst: JXL

Data Type: Original

Replicate Data: 245391006|945625|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.122	0.122	0.0018	0.0076	0.0020	11:41:29	Yes
2	0.128	0.128	0.0019	0.0087	0.0020	11:42:04	Yes
Mean:	0.125	0.125	0.0018				
SD:	0.004	0.004	0.0000				
%RSD:	3.081	3.081	2.39				

Sequence No.: 93

Autosampler Location: 81

Sample ID: 245391007|945625|1

Date Collected: 2/4/2010 11:42:24

Analyst: JXL

Data Type: Original

Replicate Data: 245391007|945625|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.158	0.158	0.0022	0.0091	0.0024	11:43:26	Yes
2	0.166	0.166	0.0023	0.0103	0.0025	11:44:01	Yes
Mean:	0.162	0.162	0.0022				
SD:	0.005	0.005	0.0001				
%RSD:	3.166	3.166	2.59				

Sequence No.: 94

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/4/2010 11:44:21

Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.865	4.865	0.0554	0.2292	0.0556	11:45:21	Yes
2	4.828	4.828	0.0550	0.2289	0.0552	11:45:57	Yes
Mean:	4.847	4.847	0.0552				
SD:	0.027	0.027	0.0003				
%RSD:	0.550	0.550	0.55				

QC value within limits for Hg 253.7 Recovery = 96.93%
All analyte(s) passed QC.

=====

Sequence No.: 95

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/4/2010 11:46:16

Analyst:

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.023	-0.023	0.0001	0.0012	0.0003	11:47:16	Yes
2	-0.016	-0.016	0.0002	0.0013	0.0004	11:47:51	Yes
Mean:	-0.019	-0.019	0.0002				
SD:	0.005	0.005	0.0001				
%RSD:	26.27	26.27	30.26				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 96

Autosampler Location: 82

Sample ID: 245391008|945625|1

Date Collected: 2/4/2010 11:48:10

Analyst: JXL

Data Type: Original

Replicate Data: 245391008|945625|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.195	0.195	0.0026	0.0109	0.0028	11:49:12	Yes
2	0.201	0.201	0.0027	0.0114	0.0029	11:49:47	Yes
Mean:	0.198	0.198	0.0026				
SD:	0.004	0.004	0.0000				
%RSD:	2.137	2.137	1.81				

=====

Sequence No.: 97

Autosampler Location: 83

Sample ID: 245391009|945625|1

Date Collected: 2/4/2010 11:50:07

Analyst: JXL

Data Type: Original

Replicate Data: 245391009|945625|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.426	0.426	0.0052	0.0214	0.0054	11:51:08	Yes
2	0.426	0.426	0.0052	0.0228	0.0054	11:51:43	Yes
Mean:	0.426	0.426	0.0052				
SD:	0.000	0.000	0.0000				
%RSD:	0.002	0.002	0.00				

=====

Sequence No.: 98

Autosampler Location: 84

Sample ID: 245391010|945625|1

Date Collected: 2/4/2010 11:52:03

Analyst: JXL

Data Type: Original

Replicate Data: 245391010|945625|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.398	0.398	0.0049	0.0205	0.0051	11:53:05	Yes

Replicate Data: 245383002|945619|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.747	0.747	0.0089	0.0372	0.0090	12:02:48	Yes
2	0.736	0.736	0.0087	0.0368	0.0089	12:03:23	Yes
Mean:	0.742	0.742	0.0088				
SD:	0.008	0.008	0.0001				
%RSD:	1.075	1.075	1.03				

Sequence No.: 104

Autosampler Location: 90

Sample ID: 245383003|945619|1

Date Collected: 2/4/2010 12:03:43

Analyst: JXL

Data Type: Original

Replicate Data: 245383003|945619|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.354	0.354	0.0044	0.0183	0.0046	12:04:45	Yes
2	0.351	0.351	0.0044	0.0180	0.0046	12:05:20	Yes
Mean:	0.352	0.352	0.0044				
SD:	0.002	0.002	0.0000				
%RSD:	0.436	0.436	0.40				

Sequence No.: 105

Autosampler Location: 91

Sample ID: 245383004|945619|1

Date Collected: 2/4/2010 12:05:40

Analyst: JXL

Data Type: Original

Replicate Data: 245383004|945619|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.323	0.323	0.0041	0.0171	0.0042	12:06:42	Yes
2	0.322	0.322	0.0040	0.0174	0.0042	12:07:17	Yes
Mean:	0.322	0.322	0.0041				
SD:	0.001	0.001	0.0000				
%RSD:	0.301	0.301	0.27				

Sequence No.: 106

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/4/2010 12:07:37

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.951	4.951	0.0564	0.2351	0.0566	12:08:38	Yes
2	4.963	4.963	0.0565	0.2359	0.0567	12:09:12	Yes
Mean:	4.957	4.957	0.0565				
SD:	0.009	0.009	0.0001				
%RSD:	0.172	0.172	0.17				

QC value within limits for Hg 253.7 Recovery = 99.13%

All analyte(s) passed QC.

Sequence No.: 107

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/4/2010 12:09:31

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.021	-0.021	0.0002	0.0010	0.0004	12:10:32	Yes
2	-0.024	-0.024	0.0001	0.0009	0.0003	12:11:07	Yes
Mean:	-0.023	-0.023	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	9.013	9.013	15.41				

QC value within limits for Hg 253.7 Recovery = Not calculated

Replicate Data: 245385005|945619|1

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.237	0.237	0.0031	0.0130	0.0033	12:30:01	Yes
2	0.231	0.231	0.0030	0.0132	0.0032	12:30:36	Yes
Mean:	0.234	0.234	0.0031				
SD:	0.005	0.005	0.0001				
%RSD:	1.980	1.980	1.72				

Sequence No.: 118

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/4/2010 12:30:57

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.881	4.881	0.0556	0.2329	0.0558	12:31:57	Yes
2	4.832	4.832	0.0551	0.2345	0.0552	12:32:32	Yes
Mean:	4.856	4.856	0.0553				
SD:	0.035	0.035	0.0004				
%RSD:	0.711	0.711	0.71				

QC value within limits for Hg 253.7 Recovery = 97.13%

All analyte(s) passed QC.

Sequence No.: 119

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/4/2010 12:32:51

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.019	-0.019	0.0002	0.0013	0.0004	12:33:52	Yes
2	-0.024	-0.024	0.0001	0.0009	0.0003	12:34:27	Yes
Mean:	-0.021	-0.021	0.0002				
SD:	0.004	0.004	0.0000				
%RSD:	16.53	16.53	24.39				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 120

Autosampler Location: 102

Sample ID: 245385006|945619|1

Date Collected: 2/4/2010 12:34:46

Analyst: JXL

Data Type: Original

Replicate Data: 245385006|945619|1

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.244	0.244	0.0032	0.0139	0.0034	12:35:48	Yes
2	0.242	0.242	0.0031	0.0135	0.0033	12:36:23	Yes
Mean:	0.243	0.243	0.0032				
SD:	0.001	0.001	0.0000				
%RSD:	0.478	0.478	0.42				

Sequence No.: 121

Autosampler Location: 103

Sample ID: 245385007|945619|1

Date Collected: 2/4/2010 12:36:43

Analyst: JXL

Data Type: Original

Replicate Data: 245385007|945619|1

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.105	0.105	0.0016	0.0073	0.0018	12:37:45	Yes
2	0.116	0.116	0.0017	0.0084	0.0019	12:38:20	Yes
Mean:	0.111	0.111	0.0017				

#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.006	0.006	0.0005	0.0026	0.0007	12:47:31	Yes
2	0.000	0.000	0.0004	0.0020	0.0006	12:48:06	Yes
Mean:	0.003	0.003	0.0004				
SD:	0.004	0.004	0.0000				
%RSD:	131.2	131.2	10.87				

Sequence No.: 127

Autosampler Location: 109

Sample ID: 1202025290|945622|10

Date Collected: 2/4/2010 12:48:27

Analyst: JXL

Data Type: Original

Replicate Data: 1202025290|945622|10

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.102	3.102	0.0355	0.1495	0.0357	12:49:29	Yes
2	3.107	3.107	0.0355	0.1486	0.0357	12:50:03	Yes
Mean:	3.104	3.104	0.0355				
SD:	0.003	0.003	0.0000				
%RSD:	0.101	0.101	0.10				

Sequence No.: 128

Autosampler Location: 110

Sample ID: 245389001|945622|1

Date Collected: 2/4/2010 12:50:24

Analyst: JXL

Data Type: Original

Replicate Data: 245389001|945622|1

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.365	0.365	0.0045	0.0190	0.0047	12:51:26	Yes
2	0.369	0.369	0.0046	0.0197	0.0048	12:52:01	Yes
Mean:	0.367	0.367	0.0046				
SD:	0.003	0.003	0.0000				
%RSD:	0.734	0.734	0.67				

Sequence No.: 129

Autosampler Location: 111

Sample ID: 1202025291|945622|1

Date Collected: 2/4/2010 12:52:21

Analyst: JXL

Data Type: Original

Replicate Data: 1202025291|945622|1

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.368	0.368	0.0046	0.0197	0.0048	12:53:24	Yes
2	0.367	0.367	0.0046	0.0193	0.0047	12:53:59	Yes
Mean:	0.367	0.367	0.0046				
SD:	0.001	0.001	0.0000				
%RSD:	0.204	0.204	0.19				

Sequence No.: 130

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/4/2010 12:54:19

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	Blncorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.812	4.812	0.0548	0.2292	0.0550	12:55:20	Yes
2	4.761	4.761	0.0543	0.2281	0.0544	12:55:55	Yes
Mean:	4.786	4.786	0.0545				
SD:	0.036	0.036	0.0004				
%RSD:	0.753	0.753	0.75				

QC value within limits for Hg 253.7 Recovery = 95.72%
All analyte(s) passed QC.

Sequence No.: 131

Autosampler Location: 8

Sample ID: CCB
Analyst:

Date Collected: 2/4/2010 12:56:14
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.029	-0.029	0.0001	0.0001	0.0003	12:57:15	Yes
2	-0.024	-0.024	0.0001	0.0010	0.0003	12:57:50	Yes
Mean:	-0.027	-0.027	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	12.77	12.77	37.34				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 132
Sample ID: 1202025292|945622|1
Analyst: JXL

Autosampler Location: 112
Date Collected: 2/4/2010 12:58:10
Data Type: Original

Replicate Data: 1202025292|945622|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.334	2.334	0.0268	0.1133	0.0270	12:59:12	Yes
2	2.324	2.324	0.0267	0.1119	0.0269	12:59:47	Yes
Mean:	2.329	2.329	0.0268				
SD:	0.007	0.007	0.0001				
%RSD:	0.304	0.304	0.30				

=====

Sequence No.: 133
Sample ID: 1202025294|945622|1
Analyst: JXL

Autosampler Location: 113
Date Collected: 2/4/2010 13:00:07
Data Type: Original

Replicate Data: 1202025294|945622|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.330	2.330	0.0268	0.1142	0.0269	13:01:09	Yes
2	2.318	2.318	0.0266	0.1126	0.0268	13:01:44	Yes
Mean:	2.324	2.324	0.0267				
SD:	0.008	0.008	0.0001				
%RSD:	0.350	0.350	0.34				

=====

Sequence No.: 134
Sample ID: 1202025293|945622|5
Analyst: JXL

Autosampler Location: 114
Date Collected: 2/4/2010 13:02:05
Data Type: Original

Replicate Data: 1202025293|945622|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.053	0.053	0.0010	0.0051	0.0012	13:03:07	Yes
2	0.047	0.047	0.0009	0.0048	0.0011	13:03:42	Yes
Mean:	0.050	0.050	0.0010				
SD:	0.004	0.004	0.0001				
%RSD:	8.943	8.943	5.20				

=====

Sequence No.: 135
Sample ID: 245389002|945622|1
Analyst: JXL

Autosampler Location: 115
Date Collected: 2/4/2010 13:04:02
Data Type: Original

Replicate Data: 245389002|945622|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.215	0.215	0.0028	0.0124	0.0030	13:05:04	Yes
2	0.216	0.216	0.0029	0.0131	0.0030	13:05:39	Yes

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.157	0.157	0.0022	0.0100	0.0024	13:14:53	Yes
2	0.157	0.157	0.0022	0.0101	0.0024	13:15:28	Yes
Mean:	0.157	0.157	0.0022				
SD:	0.001	0.001	0.0000				
%RSD:	0.412	0.412	0.34				

Sequence No.: 141

Autosampler Location: 121

Sample ID: 245389008|945622|1

Date Collected: 2/4/2010 13:15:48

Analyst: JXL

Data Type: Original

Replicate Data: 245389008|945622|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.191	0.191	0.0026	0.0117	0.0028	13:16:50	Yes
2	0.194	0.194	0.0026	0.0118	0.0028	13:17:25	Yes
Mean:	0.192	0.192	0.0026				
SD:	0.002	0.002	0.0000				
%RSD:	1.112	1.112	0.94				

Sequence No.: 142

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/4/2010 13:17:46

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.804	4.804	0.0547	0.2301	0.0549	13:18:46	Yes
2	4.750	4.750	0.0541	0.2274	0.0543	13:19:21	Yes
Mean:	4.777	4.777	0.0544				
SD:	0.038	0.038	0.0004				
%RSD:	0.795	0.795	0.79				

QC value within limits for Hg 253.7 Recovery = 95.55%

All analyte(s) passed QC.

Sequence No.: 143

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/4/2010 13:19:40

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.035	-0.035	0.0000	0.0008	0.0002	13:20:41	Yes
2	-0.035	-0.035	0.0000	0.0009	0.0002	13:21:15	Yes
Mean:	-0.035	-0.035	0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	0.666	0.666	34.30				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 144

Autosampler Location: 122

Sample ID: 245389009|945622|1

Date Collected: 2/4/2010 13:21:35

Analyst: JXL

Data Type: Original

Replicate Data: 245389009|945622|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.336	0.336	0.0042	0.0183	0.0044	13:22:37	Yes
2	0.336	0.336	0.0042	0.0185	0.0044	13:23:12	Yes
Mean:	0.336	0.336	0.0042				
SD:	0.000	0.000	0.0000				
%RSD:	0.026	0.026	0.02				

2	1.062	1.062	0.0124	0.0525	0.0126	13:33:01	Yes
Mean:	1.064	1.064	0.0124				
SD:	0.003	0.003	0.0000				
%RSD:	0.298	0.298	0.29				

Sequence No.: 150

Sample ID: 1202024827|945428|1

Analyst: JXL

Autosampler Location: 128

Date Collected: 2/4/2010 13:33:22

Data Type: Original

Replicate Data: 1202024827|945428|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.023	1.023	0.0120	0.0511	0.0122	13:34:24	Yes
2	1.019	1.019	0.0119	0.0503	0.0121	13:34:59	Yes
Mean:	1.021	1.021	0.0120				
SD:	0.003	0.003	0.0000				
%RSD:	0.300	0.300	0.29				

Sequence No.: 151

Sample ID: 1202024828|945428|1

Analyst: JXL

Autosampler Location: 129

Date Collected: 2/4/2010 13:35:20

Data Type: Original

Replicate Data: 1202024828|945428|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.157	3.157	0.0361	0.1517	0.0363	13:36:22	Yes
2	3.114	3.114	0.0356	0.1502	0.0358	13:36:57	Yes
Mean:	3.136	3.136	0.0359				
SD:	0.030	0.030	0.0003				
%RSD:	0.958	0.958	0.95				

Sequence No.: 152

Sample ID: 1202024830|945428|1

Analyst: JXL

Autosampler Location: 130

Date Collected: 2/4/2010 13:37:18

Data Type: Original

Replicate Data: 1202024830|945428|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.314	3.314	0.0379	0.1594	0.0381	13:38:20	Yes
2	3.314	3.314	0.0379	0.1599	0.0381	13:38:55	Yes
Mean:	3.314	3.314	0.0379				
SD:	0.000	0.000	0.0000				
%RSD:	0.008	0.008	0.01				

Sequence No.: 153

Sample ID: 1202024829|945428|5

Analyst: JXL

Autosampler Location: 131

Date Collected: 2/4/2010 13:39:15

Data Type: Original

Replicate Data: 1202024829|945428|5

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.195	0.195	0.0026	0.0117	0.0028	13:40:18	Yes
2	0.192	0.192	0.0026	0.0116	0.0028	13:40:53	Yes
Mean:	0.193	0.193	0.0026				
SD:	0.002	0.002	0.0000				
%RSD:	1.108	1.108	0.93				

Sequence No.: 154

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/4/2010 13:41:13

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.790	4.790	0.0546	0.2317	0.0548	13:42:14	Yes
2	4.784	4.784	0.0545	0.2306	0.0547	13:42:49	Yes
Mean:	4.787	4.787	0.0546				
SD:	0.004	0.004	0.0000				
%RSD:	0.092	0.092	0.09				

QC value within limits for Hg 253.7 Recovery = 95.74%
All analyte(s) passed QC.

Sequence No.: 155

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/4/2010 13:43:08

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.036	-0.036	-0.0000	0.0007	0.0002	13:44:09	Yes
2	-0.032	-0.032	0.0000	0.0011	0.0002	13:44:44	Yes
Mean:	-0.034	-0.034	0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	9.601	9.601	166.99				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 156

Sample ID: 245092002|945428|1

Analyst: JXL

Autosampler Location: 132

Date Collected: 2/4/2010 13:45:03

Data Type: Original

Replicate Data: 245092002|945428|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	16.09	16.09	0.1824	0.7776	0.1826	13:46:05	Yes
Sample concentration is greater than that of the highest standard.							
2	16.03	16.03	0.1817	0.7747	0.1819	13:46:40	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	16.06	16.06	0.1820				
SD:	0.041	0.041	0.0005				
%RSD:	0.257	0.257	0.26				

Sample concentration is greater than that of the highest standard.

Sequence No.: 157

Sample ID: 245092003|945428|1

Analyst: JXL

Autosampler Location: 133

Date Collected: 2/4/2010 13:47:01

Data Type: Original

Replicate Data: 245092003|945428|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	6.771	6.771	0.0770	0.3260	0.0772	13:48:03	Yes
2	6.770	6.770	0.0770	0.3245	0.0772	13:48:38	Yes
Mean:	6.771	6.771	0.0770				
SD:	0.001	0.001	0.0000				
%RSD:	0.010	0.010	0.01				

Sequence No.: 158

Sample ID: 245092004|945428|1

Analyst: JXL

Autosampler Location: 134

Date Collected: 2/4/2010 13:48:59

Data Type: Original

Replicate Data: 245092004|945428|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.439	0.439	0.0054	0.0233	0.0056	13:50:01	Yes

Replicate Data: 245092009|945428|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.129	0.129	0.0019	0.0094	0.0021	13:59:53	Yes
2	0.128	0.128	0.0019	0.0082	0.0020	14:00:29	Yes
Mean:	0.129	0.129	0.0019				
SD:	0.001	0.001	0.0000				
%RSD:	0.657	0.657	0.51				

Sequence No.: 164

Autosampler Location: 140

Sample ID: 245092010|945428|1

Date Collected: 2/4/2010 14:00:50

Analyst: JXL

Data Type: Original

Replicate Data: 245092010|945428|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	13.11	13.11	0.1486	0.6382	0.1488	14:01:52	Yes
	Sample concentration is greater than that of the highest standard.						
2	13.15	13.15	0.1491	0.6381	0.1493	14:02:27	Yes
	Sample concentration is greater than that of the highest standard.						
Mean:	13.13	13.13	0.1489				
SD:	0.030	0.030	0.0003				
%RSD:	0.225	0.225	0.22				
	Sample concentration is greater than that of the highest standard.						

Sequence No.: 165

Autosampler Location: 141

Sample ID: 245092011|945428|1

Date Collected: 2/4/2010 14:02:48

Analyst: JXL

Data Type: Original

Replicate Data: 245092011|945428|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.087	0.087	0.0014	0.0064	0.0016	14:03:50	Yes
2	0.089	0.089	0.0014	0.0064	0.0016	14:04:25	Yes
Mean:	0.088	0.088	0.0014				
SD:	0.002	0.002	0.0000				
%RSD:	2.342	2.342	1.66				

Sequence No.: 166

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/4/2010 14:04:46

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.801	4.801	0.0547	0.2335	0.0549	14:05:46	Yes
2	4.769	4.769	0.0544	0.2321	0.0545	14:06:21	Yes
Mean:	4.785	4.785	0.0545				
SD:	0.022	0.022	0.0003				
%RSD:	0.466	0.466	0.46				

QC value within limits for Hg 253.7 Recovery = 95.70%
All analyte(s) passed QC.

Sequence No.: 167

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/4/2010 14:06:40

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.033	-0.033	0.0000	0.0009	0.0002	14:07:41	Yes
2	-0.030	-0.030	0.0001	0.0011	0.0003	14:08:16	Yes
Mean:	-0.031	-0.031	0.0001				

SD: 0.002 0.002 0.0000
%RSD: 7.868 7.868 55.59

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 168

Autosampler Location: 142

Sample ID: 245092012|945428|1

Date Collected: 2/4/2010 14:08:36

Analyst: JXL

Data Type: Original

Replicate Data: 245092012|945428|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.981	0.981	0.0115	0.0495	0.0117	14:09:38	Yes
2	0.976	0.976	0.0114	0.0494	0.0116	14:10:14	Yes
Mean:	0.978	0.978	0.0115				
SD:	0.004	0.004	0.0000				
%RSD:	0.385	0.385	0.37				

Sequence No.: 169

Autosampler Location: 143

Sample ID: 245092013|945428|1

Date Collected: 2/4/2010 14:10:34

Analyst: JXL

Data Type: Original

Replicate Data: 245092013|945428|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	7.857	7.857	0.0893	0.3830	0.0895	14:11:37	Yes
2	7.844	7.844	0.0891	0.3802	0.0893	14:12:12	Yes
Mean:	7.851	7.851	0.0892				
SD:	0.009	0.009	0.0001				
%RSD:	0.117	0.117	0.12				

Sequence No.: 170

Autosampler Location: 144

Sample ID: 245092014|945428|1

Date Collected: 2/4/2010 14:12:33

Analyst: JXL

Data Type: Original

Replicate Data: 245092014|945428|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	13.76	13.76	0.1561	0.6714	0.1563	14:13:35	Yes
Sample concentration is greater than that of the highest standard.							
2	13.72	13.72	0.1556	0.6669	0.1558	14:14:10	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	13.74	13.74	0.1558				
SD:	0.030	0.030	0.0003				
%RSD:	0.222	0.222	0.22				

Sample concentration is greater than that of the highest standard.

Sequence No.: 171

Autosampler Location: 145

Sample ID: 1202031621|948366|1

Date Collected: 2/4/2010 14:14:31

Analyst: JXL

Data Type: Original

Replicate Data: 1202031621|948366|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.032	-0.032	0.0000	0.0007	0.0002	14:15:33	Yes
2	-0.031	-0.031	0.0001	0.0009	0.0002	14:16:08	Yes
Mean:	-0.031	-0.031	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	2.678	2.678	17.56				

Sequence No.: 172

Autosampler Location: 146

Sample ID: 1202031622|948366|1

Date Collected: 2/4/2010 14:16:29

Sequence No.: 177

Sample ID: 1202031625|948366|5

Analyst: JXL

Autosampler Location: 151

Date Collected: 2/4/2010 14:26:22

Data Type: Original

Replicate Data: 1202031625|948366|5

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.013	0.013	0.0005	0.0027	0.0007	14:27:25	Yes
2	0.012	0.012	0.0005	0.0027	0.0007	14:28:00	Yes
Mean:	0.012	0.012	0.0005				
SD:	0.001	0.001	0.0000				
%RSD:	6.411	6.411	1.62				

Sequence No.: 178

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/4/2010 14:28:21

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.764	4.764	0.0543	0.2369	0.0545	14:29:22	Yes
2	4.755	4.755	0.0542	0.2355	0.0544	14:29:57	Yes
Mean:	4.760	4.760	0.0542				
SD:	0.006	0.006	0.0001				
%RSD:	0.130	0.130	0.13				

QC value within limits for Hg 253.7 Recovery = 95.19%
All analyte(s) passed QC.

Sequence No.: 179

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/4/2010 14:30:16

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.032	-0.032	0.0000	0.0005	0.0002	14:31:17	Yes
2	-0.029	-0.029	0.0001	0.0009	0.0003	14:31:52	Yes
Mean:	-0.030	-0.030	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	5.416	5.416	30.52				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 180

Sample ID: 245942036|948366|1

Analyst: JXL

Autosampler Location: 152

Date Collected: 2/4/2010 14:32:11

Data Type: Original

Replicate Data: 245942036|948366|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.232	0.232	0.0030	0.0135	0.0032	14:33:14	Yes
2	0.234	0.234	0.0031	0.0131	0.0032	14:33:48	Yes
Mean:	0.233	0.233	0.0030				
SD:	0.002	0.002	0.0000				
%RSD:	0.655	0.655	0.57				

Sequence No.: 181

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/4/2010 14:34:10

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.802	4.802	0.0547	0.2374	0.0549	14:35:10	Yes
2	4.795	4.795	0.0546	0.2384	0.0548	14:35:45	Yes
Mean:	4.798	4.798	0.0547				
SD:	0.004	0.004	0.0000				
%RSD:	0.091	0.091	0.09				

QC value within limits for Hg 253.7 Recovery = 95.97%

All analyte(s) passed QC.

Sequence No.: 182

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/4/2010 14:36:04

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.031	-0.031	0.0001	0.0006	0.0002	14:37:05	Yes
2	-0.032	-0.032	0.0000	0.0004	0.0002	14:37:40	Yes
Mean:	-0.032	-0.032	0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	1.571	1.571	11.57				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

=====
Analysis Begun

Logged In Analyst: Administrator

Technique: AA FIMS-MHS

Spectrometer Model: FIMS-100, S/N B050-9550

Autosampler Model: S10

Sample Information File: C:\data-AA\Administrator\Sample Information\020410S1.SIF

Batch ID:

Results Data Set: 020410S1

Results Library: C:\data-AA\Administrator\Results\Results.mdb

=====
Method Loaded

Method Name: WATER

Method Last Saved: 12/28/2009 15:47:50

Method Description: 7470A, 245.2, ILM04 ANALYST JXL

=====
Sequence No.: 1

Autosampler Location: 31

Sample ID: 245119014|945591|10

Date Collected: 2/4/2010 14:42:06

Analyst: JXL

Data Type: Original

Replicate Data: 245119014|945591|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.082	2.082	0.0240	0.1050	0.0241	14:43:07	Yes
2	2.068	2.068	0.0238	0.1042	0.0240	14:43:42	Yes
Mean:	2.075	2.075	0.0239				
SD:	0.010	0.010	0.0001				
%RSD:	0.492	0.492	0.48				

=====
Sequence No.: 2

Autosampler Location: 65

Sample ID: 245136010|945445|2

Date Collected: 2/4/2010 14:44:01

Analyst: JXL

Data Type: Original

Replicate Data: 245136010|945445|2

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.164	5.164	0.0588	0.2579	0.0590	14:45:03	Yes
2	5.058	5.058	0.0576	0.2517	0.0578	14:45:37	Yes
Mean:	5.111	5.111	0.0582				
SD:	0.075	0.075	0.0008				
%RSD:	1.460	1.460	1.45				

=====
Sequence No.: 3

Autosampler Location: 132

Sample ID: 245092002|945428|10

Date Collected: 2/4/2010 14:45:57

Analyst: JXL

Data Type: Original

Replicate Data: 245092002|945428|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.863	1.863	0.0215	0.0945	0.0217	14:46:59	Yes
2	1.854	1.854	0.0214	0.0935	0.0216	14:47:34	Yes
Mean:	1.859	1.859	0.0214				
SD:	0.006	0.006	0.0001				
%RSD:	0.328	0.328	0.32				

=====
Sequence No.: 4

Autosampler Location: 140

Sample ID: 245092010|945428|10

Date Collected: 2/4/2010 14:47:55

Analyst: JXL

Data Type: Original

Replicate Data: 245092010|945428|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored

1	1.470	1.470	0.0170	0.0753	0.0172	14:48:57	Yes
2	1.470	1.470	0.0170	0.0747	0.0172	14:49:32	Yes
Mean:	1.470	1.470	0.0170				
SD:	0.000	0.000	0.0000				
%RSD:	0.008	0.008	0.01				

Sequence No.: 5

Sample ID: 245092014|945428|10

Analyst: JXL

Autosampler Location: 144

Date Collected: 2/4/2010 14:49:53

Data Type: Original

Replicate Data: 245092014|945428|10

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.525	1.525	0.0177	0.0776	0.0178	14:50:56	Yes
2	1.498	1.498	0.0174	0.0759	0.0175	14:51:30	Yes
Mean:	1.512	1.512	0.0175				
SD:	0.019	0.019	0.0002				
%RSD:	1.254	1.254	1.22				

Sequence No.: 6

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/4/2010 14:51:51

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.868	4.868	0.0555	0.2442	0.0557	14:52:52	Yes
2	4.846	4.846	0.0552	0.2432	0.0554	14:53:27	Yes
Mean:	4.857	4.857	0.0553				
SD:	0.015	0.015	0.0002				
%RSD:	0.315	0.315	0.31				

QC value within limits for Hg 253.7 Recovery = 97.13%

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/4/2010 14:53:46

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.032	-0.032	0.0000	0.0007	0.0002	14:54:47	Yes
2	-0.032	-0.032	0.0000	0.0006	0.0002	14:55:22	Yes
Mean:	-0.032	-0.032	0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	1.240	1.240	10.20				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Miscellaneous

Prep LogBook

Analyst: FGA Verified by: _____

Batch: 944112

Lab SOP: GL-MA-E-009 REV# 19

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202021577		SW846 3050B	28-JAN-2010 13:30	0.503 g	50 mL	99.40358	.512	g
LCS	1202021582		SW846 3050B	28-JAN-2010 13:30	0.512 g	50 mL	97.65625	.5	mL
SAMPLE	245136001		SW846 3050B	28-JAN-2010 13:30	0.513 g	50 mL	97.46589	.5	mL
DUP	1202021578	245136001	SW846 3050B	28-JAN-2010 13:30	0.525 g	50 mL	95.2381	.5	mL
SDILT	1202021579	245136001	SW846 3050B	28-JAN-2010 13:30	0.513 g	50 mL	97.46589	.5	mL
MS	1202021580	245136001	SW846 3050B	28-JAN-2010 13:30	0.525 g	50 mL	95.2381	.5	mL
MSD	1202021581	245136001	SW846 3050B	28-JAN-2010 13:30	0.522 g	50 mL	95.78544	.5	mL
SAMPLE	245136002		SW846 3050B	28-JAN-2010 13:30	0.534 g	50 mL	93.63296	.5	mL
SAMPLE	245136003		SW846 3050B	28-JAN-2010 13:30	0.511 g	50 mL	97.84736	.5	mL
SAMPLE	245136004		SW846 3050B	28-JAN-2010 13:30	0.522 g	50 mL	95.78544	.5	mL
SAMPLE	245136005		SW846 3050B	28-JAN-2010 13:30	0.556 g	50 mL	89.92806	.5	mL
SAMPLE	245136006		SW846 3050B	28-JAN-2010 13:30	0.521 g	50 mL	95.96929	.5	mL
SAMPLE	245136007		SW846 3050B	28-JAN-2010 13:30	0.523 g	50 mL	95.60229	.5	mL
SAMPLE	245136008		SW846 3050B	28-JAN-2010 13:30	0.512 g	50 mL	97.65625	.5	mL
SAMPLE	245136009		SW846 3050B	28-JAN-2010 13:30	0.505 g	50 mL	99.0099	.5	mL
SAMPLE	245136010		SW846 3050B	28-JAN-2010 13:30	0.518 g	50 mL	96.5251	.5	mL
SAMPLE	245136011		SW846 3050B	28-JAN-2010 13:30	0.524 g	50 mL	95.41985	.5	mL
SAMPLE	245136012		SW846 3050B	28-JAN-2010 13:30	0.507 g	50 mL	98.61933	.5	mL
SAMPLE	245136013		SW846 3050B	28-JAN-2010 13:30	0.533 g	50 mL	93.80863	.5	mL

Comments Dark,brown,moist,clumpy soil.

Reagent/Solvent	Lot ID	Amount	Description
1203655-02		1.5 mL	Hydrogen Peroxide 30%
1234886		5 mL	Nitric Acid CONC.

Prep LogBook

Analyst: AXG2 Verified by: _____

Batch: 944110

Lab SOP: GL-MA-E-009 REV# 19

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Type	Sample Id	Lot. Id	Spike Amount	Spike Units
MB	1202021571		SW846 3050B	27-JAN-2010 08:30	LCS	1202021576	U1062540-1	.524	g
LCS	1202021576		SW846 3050B	27-JAN-2010 08:30	MS	1202021574	U1091216-01	.25	mL
SAMPLE	245136001		SW846 3050B	27-JAN-2010 08:30	MS	1202021574	U1091216-06	.25	mL
DUP	1202021572	245136001	SW846 3050B	27-JAN-2010 08:30	MSD	1202021575	U1091216-01	.25	mL
SDILT	1202021573	245136001	SW846 3050B	27-JAN-2010 08:30	MSD	1202021575	U1091216-06	.25	mL
MS	1202021574	245136001	SW846 3050B	27-JAN-2010 08:30					
MSD	1202021575	245136001	SW846 3050B	27-JAN-2010 08:30					
SAMPLE	245136002		SW846 3050B	27-JAN-2010 08:30					
SAMPLE	245136003		SW846 3050B	27-JAN-2010 08:30					
SAMPLE	245136004		SW846 3050B	27-JAN-2010 08:30					
SAMPLE	245136005		SW846 3050B	27-JAN-2010 08:30					
SAMPLE	245136006		SW846 3050B	27-JAN-2010 08:30					
SAMPLE	245136007		SW846 3050B	27-JAN-2010 08:30					
SAMPLE	245136008		SW846 3050B	27-JAN-2010 08:30					
SAMPLE	245136009		SW846 3050B	27-JAN-2010 08:30					
SAMPLE	245136010		SW846 3050B	27-JAN-2010 08:30					
SAMPLE	245136011		SW846 3050B	27-JAN-2010 08:30					
SAMPLE	245136012		SW846 3050B	27-JAN-2010 08:30					
SAMPLE	245136013		SW846 3050B	27-JAN-2010 08:30					

Comments Sample 245136001 consist of dark, brown, moist, clumpy soil.

Reagent/Solvent Lot ID	Amount	Description
1252838	10 mL	HYDROCHLORIC ACID
1234886	1.25 mL	Nitric Acid CONC.

Prep LogBook

Analyst: TXB3 Verified by: _____

Batch: 945443

Lab SOP: GL-MA-E-010 REV# 23

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Type	Sample Id	Lot. Id	Spike Amount	Spike Units
MB	1202024863		SW846 7471A Prep	03-FEB-2010 14:00	LCS	1202024864	UI031809A	.202	g
LCS	1202024864		SW846 7471A Prep	03-FEB-2010 14:00	MS	1202024866	WHG100203-14	.3	mL
SAMPLE	245136001		SW846 7471A Prep	03-FEB-2010 14:00	MSD	1202024868	WHG100203-14	.3	mL
DUP	1202024865	245136001	SW846 7471A Prep	03-FEB-2010 14:00					
MS	1202024866	245136001	SW846 7471A Prep	03-FEB-2010 14:00					
MSD	1202024868	245136001	SW846 7471A Prep	03-FEB-2010 14:00					
SDILT	1202024867	245136001	SW846 7471A Prep	03-FEB-2010 14:00					
SAMPLE	245136002		SW846 7471A Prep	03-FEB-2010 14:00					
SAMPLE	245136003		SW846 7471A Prep	03-FEB-2010 14:00					
SAMPLE	245136004		SW846 7471A Prep	03-FEB-2010 14:00					
SAMPLE	245136005		SW846 7471A Prep	03-FEB-2010 14:00					
SAMPLE	245136006		SW846 7471A Prep	03-FEB-2010 14:00					
SAMPLE	245136007		SW846 7471A Prep	03-FEB-2010 14:00					
SAMPLE	245136008		SW846 7471A Prep	03-FEB-2010 14:00					
SAMPLE	245136009		SW846 7471A Prep	03-FEB-2010 14:00					
SAMPLE	245136010		SW846 7471A Prep	03-FEB-2010 14:00					
SAMPLE	245136011		SW846 7471A Prep	03-FEB-2010 14:00					
SAMPLE	245136012		SW846 7471A Prep	03-FEB-2010 14:00					
SAMPLE	245136013		SW846 7471A Prep	03-FEB-2010 14:00					

Reagent/Solvent Lot ID	Amount	Description	Comments
1236355-A	1.125 mL	Hydrochloric Acid Conc.	Sample 245136001 is a moist rocky clumpy brown soil.
1257474-1	.375 mL	NITRIC ACID	Digestion Start Date: 03-FEB-10 14:00
1255535-C	7.5 mL	5% KMnO4 solution	Digestion End Date: 03-FEB-10 14:30
1255532-C	2 mL	Hg reducing agent	
WHG100203-07	30 uL	Mercury Working Standard 1st Source CAL S 0.2/CRA	
WHG100203-08	75 uL	Mercury Working Standard 1st Source CAL S 0.5	
WHG100203-11	1.5 mL	Mercury Working 1st Source CAL S 10.0	
WHG100203-09	300 uL	Mercury Working 1st Source CAL S 2.0	
WHG100203-10	750 uL	Mercury Working 1st Source CAL S 5.0/CCV	
WHG100203-12	750 uL	Mercury Working 2nd Source S 5.0/TCV	

DATA EXCEPTION REPORT

Mo. Day Yr. 11-FEB-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: ICP	Test / Method: SW846 3050B/6010B	Matrix Type: Solid	Client Code: LANL
Batch ID: 944111	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 245136(10-1303) Application Issues: Failed Recovery for MS/PS Failed Recovery for MSD/PSD			
Specification and Requirements Exception Description:		DER Disposition:	
1. Failed Recovery for MS/PS: QC 1202021574MS 2. Failed Recovery for MSD/PSD: QC 1202021575MSD		1. The matrix spike recovery failed outside of the control limits for magnesium and potassium due to possible matrix interferences and/or non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported. 2. The 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.	

Originator's Name:

Helen Camello 15-FEB-10

Data Validator/Group Leader:

Eric Lawson 15-FEB-10

DATA EXCEPTION REPORT

Mo. Day Yr.
16-FEB-10

Division:
Industrial

Quality Criteria:
Specifications

Type:
Process

Instrument Type:
ICP/MS

Test / Method:
SW846 3050B/6020

Matrix Type:
Solid

Client Code:
LANL

Batch ID:
944114

Sample Numbers:
See Below

Potentially affected work order(s)(SDG): 245136(10-1303)

Application Issues:

Failed RPD for MS/MSD, or PS/PSD

Failed Recovery for MSD/PSD

**Specification and Requirements
Exception Description:**

1. Failed RPD for MS/MSD, or PS/PSD:

QC 1202021581MSD

2. Failed Recovery for MSD/PSD:

QC 1202021581MSD

DER Disposition:

The matrix spike duplicate failed outside the control limits for U due to matrix interference 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.

The matrix spike and matrix spike duplicate % RPD failed outside of the control limits for U due to matrix interference and/or sample non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.

Originator's Name:

Rose Jenkins

16-FEB-10

Data Validator/Group Leader:

Paul Boyd

16-FEB-10

Standard Logbook

Serial ID: UHG1167639-01 **Opened:** 13-AUG-09 **Amount :** 125 mL
Name: MHGSTOCK1 **Received:** 13-AUG-09 **Catalog Number :** PLHG4-2Y
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 15-37HG
Employee: Bryan Davis **Solvent :** 10% HNO3
Supplier: Spex
Description: Mercury Source Standard #1 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	1000 mg/L		

Serial ID: UHG1167641-02 **Opened:** 13-AUG-09 **Amount :** 100 mL
Name: MHGSTOCK2 **Received:** 13-AUG-09 **Catalog Number :** AHG1KN-100
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 4905530
Employee: Bryan Davis **Solvent :** 3% HNO3
Supplier: Ricca Chemical Company
Description: Mercury Source Standard #2 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	999.7 mg/L		

Serial ID: UI031809A **Opened:** 18-MAR-09 **Catalog Number :** 540
Name: METALSOILSRM **Received:** 18-MAR-09 **Lot Number :** D061-540
Type: Source Material **Expires:** 10-OCT-10
Employee: Jamie Johnson
Supplier: ERA
Description: Metals LCS Soil SRM
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10600 mg/kg	Antimony	126 mg/kg
Arsenic	225 mg/kg	Barium	565 mg/kg
Beryllium	162 mg/kg	Boron	107 mg/kg
Cadmium	69.1 mg/kg	Calcium	10000 mg/kg
Chromium	124 mg/kg	Cobalt	115 mg/kg
Copper	66.7 mg/kg	Iron	17600 mg/kg
Lead	223 mg/kg	Magnesium	4260 mg/kg
Manganese	368 mg/kg	Mercury	5.15 mg/kg
Molybdenum	107 mg/kg	Nickel	172 mg/kg
Potassium	4090 mg/kg	Selenium	147 mg/kg
Silver	35.2 mg/kg	Sodium	538 mg/kg
Strontium	117 mg/kg	Thallium	173 mg/kg
Tin	164 mg/kg	Titanium	381 mg/kg
Vanadium	93.9 mg/kg	Zinc	349 mg/kg

Standard Logbook

Serial ID: UI062540-I **Opened:** 12-JUN-09 **Amount :** 80 g
Name: ICP SOIL SRM **Received:** 12-JUN-09 **Lot Number :** D062-540
Type: Source Material **Expires:** 31-JAN-12
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICP/Hg
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	173 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.7 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Magnesium	4000 mg/kg
Manganese	558 mg/kg	Mercury	8.46 mg/kg
Molybdenum	48.6 mg/kg	Nickel	134 mg/kg
Phosphorous	736 mg/kg	Potassium	4300 mg/kg
Selenium	286 mg/kg	Silica	2591 mg/kg
Silicon	1211 mg/kg	Silver	30.1 mg/kg
Sodium	1020 mg/kg	Strontium	227 mg/kg
Sulfur	385 mg/kg	Thallium	121 mg/kg
Tin	104 mg/kg	Titanium	462 mg/kg
Vanadium	115 mg/kg	Zinc	594 mg/kg

Serial ID: UI062540-MS **Opened:** 12-JUN-09 **Lot Number :** D062-540
Name: ICPMS SOIL SRM **Received:** 12-JUN-09
Type: Source Material **Expires:** 31-JAN-12
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICPMS
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	67.4 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.6 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Lithium	10.6 mg/kg
Magnesium	4000 mg/kg	Manganese	558 mg/kg
Mercury	8.46 mg/kg	Molybdenum	48.6 mg/kg
Nickel	134 mg/kg	Phosphorous	755 mg/kg
Potassium	4300 mg/kg	Selenium	286 mg/kg
Silver	30.1 mg/kg	Sodium	1020 mg/kg

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Strontium	227 mg/kg	Thallium	121 mg/kg
Thorium	9.84 mg/kg	Tin	104 mg/kg
Titanium	462 mg/kg	Uranium	2.13 mg/kg
Uranium-235	.0153 mg/kg	Uranium-238	2.11 mg/kg
Vanadium	92.4 mg/kg	Zinc	594 mg/kg
Zirconium	10.6 mg/kg		

Serial ID: 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: UI090610-03 **Opened:** 10-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 10-JUN-09 **Lot Number :** 1016338
Type: Source Material **Expires:** 10-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

Serial ID: UI090701-09 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #1 **Received:** 01-JUL-09 **Catalog Number :** 160044-09-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016477
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: O2SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: UI090828-42 **Opened:** 16-SEP-09 **Amount :** 500 mL
Name: TRACE ICP Na-1000SOUR **Received:** 27-AUG-09 **Catalog Number :** 060011-02-03
Type: Source Material **Expires:** 16-SEP-10 **Lot Number :** 1017098
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: 02SI
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI090925-40 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX38-500N
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909129
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1A 5%HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Arsenic	100 mg/L
Barium	100 mg/L	Boron	100 mg/L
Cadmium	100 mg/L	Calcium	1000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	1000 mg/L
Lead	100 mg/L	Phosphorous	500 mg/L
Potassium	500 mg/L	Selenium	500 mg/L
Sodium	500 mg/L	Strontium	100 mg/L

Serial ID: UI090925-41 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX39-500B
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909130
Employee: Helen Camello **Solvent :** 5%HNO3,TR.HF
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L
Magnesium	1000 mg/L	Manganese	100 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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%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: UI091015-A **Opened:** 15-OCT-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 15-OCT-09 **Lot Number :** 1017142
Type: Source Material **Expires:** 15-OCT-10
Employee: Francena Armstrong
Supplier: O2si
Description: ICP-MS Spike for soil products.
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	20 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	10 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI091015-B **Opened:** 15-OCT-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 15-OCT-09 **Lot Number :** 1017142
Type: Source Material **Expires:** 15-OCT-10
Employee: Francena Armstrong
Supplier: 02si
Description: ICP-MS Spike for Soil Products
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silicon	200 mg/L	Silver	5 mg/L
Tin	5 mg/L	Zirconium	5 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Tin	200 mg/L	Titanium	200 mg/L

Serial ID: UI091102-42 **Opened:** 17-NOV-09 **Amount :** 200 mL
Name: SILICON **Received:** 02-NOV-09 **Catalog Number :** HP100050-4F
Type: Source Material **Expires:** 17-NOV-10 **Lot Number :** 0921924
Employee: Helen Camello **Solvent :** H2O/tr HF
Supplier: ENVIRNMENTAL EXPRESS
Description: SILICON 1000mg/L H2O/tr HF
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091216-01 **Opened:** 16-DEC-09 **Lot Number :** 1018095
Name: METALSPIKE-1 **Received:** 16-DEC-09
Type: Source Material **Expires:** 16-DEC-10
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix I
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Serial ID: UI091216-06 **Opened:** 16-DEC-09 **Lot Number :** 1018096
Name: METALSPIKE-2 **Received:** 16-DEC-09
Type: Source Material **Expires:** 16-DEC-10
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix II
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL
Molybdenum	100 ug/mL	Nickel	100 ug/mL
Selenium	100 ug/mL	Silica	2141 ug/mL

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Silicon	1000 ug/mL	Sulfur	1000 ug/mL
Thallium	100 ug/mL	Tin	100 ug/mL
Titanium	100 ug/mL	Uranium	100 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Serial ID: UI091217-06 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master A **Received:** 17-DEC-09 **Catalog Number :** 160055-01
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018209
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Serial ID: UI091217-07 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-DEC-09 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018210
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: UI091217-08 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-DEC-09 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018211
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI

Standard Logbook

Description: ICPMS ICV/CCV Soln C - 10ppm

Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: UI091217-12 Opened: 17-DEC-09 Amount : 250 mL
Name: ICP-MS ICSAB Master B Received: 17-DEC-09 Catalog Number : 160033-02
Type: Source Material Expires: 17-DEC-10 Lot Number : 1018212
Employee: Paul Boyd Solvent : +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	2 mg/L	Barium	2 mg/L
Beryllium	2 mg/L	Boron	2 mg/L
Cadmium	2 mg/L	Chromium	2 mg/L
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

Serial ID: UI091217-13 Opened: 17-DEC-09 Amount : 250 mL
Name: ICP-MS ICSAB Master C Received: 17-DEC-09 Catalog Number : 160033-03
Type: Source Material Expires: 17-DEC-10 Lot Number : 1016926
Employee: Paul Boyd Solvent : +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Silver	2 mg/L
Tin	2 mg/L	Tungsten	2 mg/L
Zirconium	2 mg/L		

Standard Logbook

Serial ID: UI100114-48 **Opened:** 22-JAN-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 18-JAN-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 22-JAN-11 **Lot Number :** 1018466
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: UI100126-11 **Opened:** 26-JAN-10 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 26-JAN-10 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 26-JAN-11 **Lot Number :** 1018321
Employee: Elizabeth Janssen **Solvent :** 2% HNO3
Supplier: O2SI
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: UI100128-40 **Opened:** 28-JAN-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 28-JAN-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 28-JAN-11 **Lot Number :** 1018409
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: O2SI
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Silver	1000 ug/L	Strontium	10000 ug/L
Sulfur	50000 ug/L	Thallium	10000 ug/L
Tin	10000 ug/L	Titanium	10000 ug/L
Vanadium	10000 ug/L	Zinc	15000 ug/L

Serial ID: UI100128-41 **Opened:** 28-JAN-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 28-JAN-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 28-JAN-11 **Lot Number :** 1018409
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION B
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Calcium	500000 ug/L
Iron	500000 ug/L	Magnesium	500000 ug/L
Sodium	500000 ug/L	Uranium	15000 ug/L

Serial ID: UMS090303-01 **Opened:** 03-MAR-09 **Amount :** 250 mL
Name: ICPMSCalSPIKEB **Received:** 03-MAR-09 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 28-FEB-10 **Lot Number :** 14-81JB
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: UMS090303-02 **Opened:** 03-MAR-09 **Catalog Number :** ZGEL-102-250
Name: ICPMSCalSPIKEA **Received:** 03-MAR-09 **Lot Number :** 14-83JB
Type: Source Material **Expires:** 28-FEB-10
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A

Standard Logbook

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: UMS090303-03 **Opened:** 03-MAR-09 **Amount :** 250 ml
Name: ICPMSCaSPIKEC **Received:** 03-MAR-09 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 28-FEB-10 **Lot Number :** 15-199JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

Serial ID: IHG100203-01 **Opened:** 03-FEB-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 03-FEB-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 04-FEB-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: IHG100203-02 **Opened:** 03-FEB-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 03-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Intermediate **Expires:** 04-FEB-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 2nd Source 200 ug/L
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167641-02	Mercury	999.7 mg/L	.05 mL	250 mL	200 ug/L

Standard Logbook

Serial ID: WHG100203-07 **Opened:** 03-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS0.2CRA **Received:** 03-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 10-FEB-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.
IHG100203-01	Mercury	200 ug/L	30 uL	30 mL	.2 ug/L

Serial ID: WHG100203-08 **Opened:** 03-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS0.5 **Received:** 03-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 10-FEB-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.
IHG100203-01	Mercury	200 ug/L	75 uL	30 mL	.5 ug/L

Serial ID: WHG100203-09 **Opened:** 03-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS2.0 **Received:** 03-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 10-FEB-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.
IHG100203-01	Mercury	200 ug/L	300 uL	30 mL	2 ug/L

Serial ID: WHG100203-10 **Opened:** 03-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS5.0CCV **Received:** 03-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 10-FEB-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.
IHG100203-01	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Standard Logbook

Serial ID: WHG100203-11 **Opened:** 03-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS10.0 **Received:** 03-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 10-FEB-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.
IHG100203-01	Mercury	200 ug/L	1.5 mL	30 mL	10 ug/L

Serial ID: WHG100203-12 **Opened:** 03-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKS5.0ICV **Received:** 03-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 10-FEB-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.
IHG100203-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100203-14 **Opened:** 03-FEB-10 **Pipet Id :** Hg1289245
Name: MHGSOILMSSPIKE **Received:** 03-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 10-FEB-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: WI100203-42 **Opened:** 03-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 04-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1263028
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.
WI100203-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100203-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100203-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100203-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100203-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100203-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100203-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100203-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100203-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100203-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100203-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100203-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100203-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100203-43 **Opened:** 03-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 04-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1263028
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090828-42	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI091102-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: W1100203-44 **Opened:** 03-FEB-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 04-FEB-10 **Solvent :** 3%HCL and 1 %HNO3-1263028
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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

Serial ID: WI100203-45 **Opened:** 03-FEB-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 04-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1263028
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090422-40	Aluminum	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Calcium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Iron	2000 mg/L	5 mL	500 mL	20000 UG/L
UI090422-40	Magnesium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090828-42	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L

Serial ID: WI100203-46 **Opened:** 03-FEB-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 04-FEB-10 **Solvent :** 3%HCL AND 1%HNO3-1263028
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals

Standard Logbook

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
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: WI100203-47 **Opened:** 03-FEB-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 04-FEB-10 **Solvent :** 3%HCL & 1%HNO3-1263028
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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
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: WMS100213-04AB **Opened:** 13-FEB-10 **Balance Id :** 40245216
Name: ICPMS Cal Standard 10 **Received:** 13-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 14-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100213-04B	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100213-04B	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Boron	200 ug/l	5 mL	50 mL	20 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100213-04B	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100213-04B	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100213-04B	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100213-04B	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100213-04B	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100213-04B	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100213-04B	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100213-04B	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100213-04B	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100213-04B **Opened:** 13-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 13-FEB-10 **Balance Id :** 40245216
Type: Working **Expires:** 14-FEB-10 **Pipet Id :** 1758088
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl- 1266278
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS090303-01	Copper	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5	50 mL	100 ug/l

Serial ID: WMS100213-05B **Opened:** 13-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 13-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 14-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100213-06B

Opened: 13-FEB-10

Balance Id : 40245216

Name: ICPMS CRDL

Received: 13-FEB-10

Pipet Id : 3820544

Type: Working

Expires: 14-FEB-10

Solvent : 2%HNO3/1%HCl - 1266278

Employee: Rose Jenkins

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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100213-07B **Opened:** 13-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 13-FEB-10 **Lot Number :** 1010773
Type: Working **Expires:** 14-FEB-10 **Pipet Id :** 3541598
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl - 1266278
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100213-08B **Opened:** 13-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 13-FEB-10 **Pipet Id :** 3541598/1758088
Type: Working **Expires:** 14-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1266278
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100215-04 **Opened:** 15-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 15-FEB-10 **Balance Id :** 4025216
Type: Working **Expires:** 16-FEB-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1269792
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Serial ID: WMS100215-04AB **Opened:** 15-FEB-10 **Balance Id :** 40245216
Name: ICPMS Cal Standard 10 **Received:** 15-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 16-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1269792
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100215-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100215-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100215-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100215-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100215-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100215-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100215-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100215-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100215-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100215-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100215-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Serial ID: WMS100215-04B **Opened:** 15-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 15-FEB-10 **Balance Id :** 40245216
Type: Working **Expires:** 16-FEB-10 **Pipet Id :** 1758088
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl- 1269792
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5	50 mL	100 ug/l

Standard Logbook

Serial ID: WMS100215-05B **Opened:** 15-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 15-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 16-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1269792
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Serial ID: WMS100215-06B **Opened:** 15-FEB-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 15-FEB-10 **Pipet Id :** 3820544
Type: Working **Expires:** 16-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1269792
Employee: Rose Jenkins
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: WMS100215-07B **Opened:** 15-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 15-FEB-10 **Lot Number :** 1010773
Type: Working **Expires:** 16-FEB-10 **Pipet Id :** 3541598
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl - 1269792
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100215-08B **Opened:** 15-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 15-FEB-10 **Pipet Id :** 3541598/1758088
Type: Working **Expires:** 16-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1269792
Employee: Rose Jenkins
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: 100202 **Opened:** 02-FEB-10 **Lot Number :** 200930201
Name: I-HCL **Received:** 02-FEB-10
Type: Reagent/Solvent **Expires:** 02-FEB-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1100721TCLP **Opened:** 16-APR-09 **Lot Number :** H02026 L
Name: I-HNO3 **Received:** 02-APR-09
Type: Reagent/Solvent **Expires:** 02-APR-10
Employee: Clifford Postell
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1156689-A **Opened:** 20-JUL-09 **Lot Number :** 41226920
Name: B-KMnO4(VWR)-MER **Received:** 20-JUL-09
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin **Verified:** 07-AUG-07
Supplier: VWR
Description: Potassium Permanganate
Comments: None

Standard Logbook

Serial ID: 1203655-02 Opened: 15-OCT-09 Lot Number : ZU74081198 mL
Name: B-H2O2 Received: 15-OCT-09
Type: Reagent/Solvent Expires: 15-OCT-10
Employee: Francena Armstrong
Supplier: EM SCIENCE
Description: Hydrogen Peroxide 30%
Comments: None

Serial ID: 1228372-A Opened: 12-NOV-09 Lot Number : 49215936
Name: B-NH2OH.HCl-MER Received: 12-NOV-09
Type: Reagent/Solvent Expires: 12-NOV-10
Employee: Tara Griffin
Supplier: Fisher Scientific
Description: Hydroxylamine Hydrochloride
Comments: None

Serial ID: 1234886 Opened: 27-NOV-09 Lot Number : H20053 L
Name: I-HNO3 Received: 27-NOV-09
Type: Reagent/Solvent Expires: 27-NOV-10
Employee: Bryan Davis
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1236355-A Opened: 01-DEC-09 Lot Number : 200930201
Name: B-HCl-MER Received: 01-DEC-09
Type: Reagent/Solvent Expires: 01-DEC-10
Employee: Tara Griffin
Supplier: Aristar
Description: Hydrochloric Acid Conc.
Comments: None

Serial ID: 1252836 Opened: 08-JAN-10 Lot Number : H20053 L
Name: I-HNO3 Received: 08-JAN-10
Type: Reagent/Solvent Expires: 08-JAN-11
Employee: Francena Armstrong
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Standard Logbook

Serial ID: 1252838 **Opened:** 08-JAN-10 **Lot Number :** H41032
Name: I-HCL **Received:** 08-JAN-10 **Preservative_Id :** 5 none
Type: Reagent/Solvent **Expires:** 08-JAN-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
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: 1255535-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: 1257474-1 **Opened:** 20-JAN-10 **Instrument Id :** MERCURY
Name: B-HNO3-MER **Received:** 20-JAN-10 **Lot Number :** H20053
Type: Reagent/Solvent **Expires:** 20-JAN-11
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID
Comments: None

Serial ID: 1263028 **Opened:** 01-FEB-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 15-JAN-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 07-FEB-10 **Solvent :** 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL
Description: 3%HCL+1%HNO3 RINSE SOLN.

Standard Logbook

Comments: None

Serial ID: 1266278 Opened: 08-FEB-10 Solvent : Type I Water
Name: B-2%HNO3/1%HCl-ICPMS Received: 08-FEB-10
Type: Reagent/Solvent Expires: 15-FEB-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.
1252836	I-HNO3	69.0-70.0	180 mL	9 l	N/A
1252838	I-HCL	36.5-38.0	90 mL	9 l	N/A

Serial ID: 1269792 Opened: 15-FEB-10 Solvent : Type I Water
Name: B-2%HNO3/1%HCl-ICPMS Received: 15-FEB-10
Type: Reagent/Solvent Expires: 22-FEB-10
Employee: Paul Boyd
Supplier: GEL
Description: 2%HNO3/1%HCl Solution (Type I Water)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
100202	I-HCL	36.5-38.0	90 mL	9 l	N/A
1100721TCLP	I-HNO3	69.0-70.0	180 mL	9 l	N/A

Metals Analysis

Case Narrative

**Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1303-1**

Sample Analysis

Sample ID	Client ID
245137001	RE15-10-7228
245137002	RE15-10-7224
245137003	RE15-10-7227
1202021499	Method Blank (MB) ICP
1202021500	Laboratory Control Sample (LCS)
1202021503	245120001(RE15-10-7226L) Serial Dilution (SD)
1202021501	245120001(RE15-10-7226D) Sample Duplicate (DUP)
1202021502	245120001(RE15-10-7226S) Matrix Spike (MS)
1202021504	Method Blank (MB) ICP-MS
1202021505	Laboratory Control Sample (LCS)
1202021508	245120001(RE15-10-7226L) Serial Dilution (SD)
1202021506	245120001(RE15-10-7226D) Sample Duplicate (DUP)
1202021507	245120001(RE15-10-7226S) Matrix Spike (MS)
1202024759	Method Blank (MB) CVAA
1202024760	Laboratory Control Sample (LCS)
1202024763	245120001(RE15-10-7226L) Serial Dilution (SD)
1202024761	245120001(RE15-10-7226D) Sample Duplicate (DUP)
1202024762	245120001(RE15-10-7226S) Matrix Spike (MS)

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

Method/Analysis Information

Analytical Batch:	944077, 944080 and 945393
Prep Batch :	944076, 944079 and 945391
Standard Operating Procedures:	GL-MA-E-013 REV# 20, GL-MA-E-006 REV# 9, GL-MA-E-014 REV# 21 and GL-MA-E-010 REV# 23
Analytical Method:	SW846 3005/6010B, SW846 3005/6020 and SW846 7470A

Prep Method : SW846 3005A and SW846 7470A Prep

Preparation/Analytical Method Verification

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

System Configuration

The Metals analysis-ICP was performed on a P E 4300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

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

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

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

Calibration Information

Instrument Calibration

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

CRDL Requirements

All CRDL standard(s) met the referenced advisory control limits with the exception of selenium 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: 245120001 (RE15-10-7226)-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. All applicable elements met the acceptance criteria.

Duplicate Relative Percent Difference (RPD) Statement

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

Serial Dilution % Difference Statement

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

Technical Information

Holding Time Specifications

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

Sample Dilutions

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

Preparation Information

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

Miscellaneous Information

Electronic Packaging Comment

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

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

Data Exception (DER) Documentation

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

Additional Comments

Additional comments were not required for this SDG.

Certification Statement

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

Review Validation:

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

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

Reviewer: Nick DeAlmeida Date: 2.15.10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245137001

BASIS: As Received

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7228

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	200	ug/L	U	68	200	200	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	01/29/10 21:59	100129-8	944080
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	01/30/10 13:50	100130-9	944080
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	01/29/10 21:59	100129-8	944080
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	01/29/10 15:55	012910-1	944077
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	01/29/10 15:55	012910-1	944077
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	01/29/10 21:59	100129-8	944080
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	01/29/10 15:55	012910-1	944077
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BAJ	01/30/10 13:50	100130-9	944080
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	02/02/10 10:15	020210W1-13	945393
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-09-7	Potassium	181	ug/L		50	150	150	1	P	HSC	01/29/10 15:55	012910-1	944077
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-23-5	Sodium	300	ug/L	U	100	300	300	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	PRB	02/06/10 01:50	100205-2	944080
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	BAJ	01/29/10 13:56	100129-3	944080
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:55	012910-1	944077
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	01/29/10 15:55	012910-1	944077

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944077	944076	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
944080	944079	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
945393	945391	SW846 7470A Prep	20	mL	20	mL	02/01/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245137002

BASIS: As Received

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7224

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	200	ug/L	U	68	200	200	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	01/29/10 22:02	100129-8	944080
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	01/30/10 13:52	100130-9	944080
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	01/29/10 22:02	100129-8	944080
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	01/29/10 15:59	012910-1	944077
7439-89-6	Iron	48.4	ug/L	J	30	100	100	1	P	HSC	01/29/10 15:59	012910-1	944077
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	01/29/10 22:02	100129-8	944080
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	01/29/10 15:59	012910-1	944077
7439-96-5	Manganese	1.24	ug/L	J	1	5	5	1	MS	BAJ	01/30/10 13:52	100130-9	944080
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	02/02/10 10:17	020210W1-13	945393
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-09-7	Potassium	184	ug/L		50	150	150	1	P	HSC	01/29/10 15:59	012910-1	944077
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-23-5	Sodium	300	ug/L	U	100	300	300	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	PRB	02/06/10 01:55	100205-2	944080
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	BAJ	01/29/10 13:58	100129-3	944080
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 15:59	012910-1	944077
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	01/29/10 15:59	012910-1	944077

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944077	944076	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
944080	944079	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
945393	945391	SW846 7470A Prep	20	mL	20	mL	02/01/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1303-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 245137003

BASIS: As Received

DATE COLLECTED 13-JAN-10

CLIENT ID: RE15-10-7227

LEVEL: Low

DATE RECEIVED 20-JAN-10

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	200	ug/L	U	68	200	200	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	01/29/10 22:06	100129-8	944080
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-39-3	Barium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	01/30/10 13:55	100130-9	944080
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	01/29/10 22:06	100129-8	944080
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-47-3	Chromium	1.2	ug/L	J	1	5	5	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	01/29/10 16:03	012910-1	944077
7439-89-6	Iron	100	ug/L	U	30	100	100	1	P	HSC	01/29/10 16:03	012910-1	944077
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	01/29/10 22:06	100129-8	944080
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	01/29/10 16:03	012910-1	944077
7439-96-5	Manganese	5	ug/L	U	1	5	5	1	MS	BAJ	01/30/10 13:55	100130-9	944080
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	02/02/10 10:18	020210W1-13	945393
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-09-7	Potassium	204	ug/L		50	150	150	1	P	HSC	01/29/10 16:03	012910-1	944077
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-23-5	Sodium	300	ug/L	U	100	300	300	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-28-0	Thallium	1	ug/L	U	0.3	1	1	1	MS	PRB	02/06/10 02:00	100205-2	944080
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	BAJ	01/29/10 14:00	100129-3	944080
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	01/29/10 16:03	012910-1	944077
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	01/29/10 16:03	012910-1	944077

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
944077	944076	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
944080	944079	SW846 3005A	50	mL	50	mL	01/25/10	BXA1
945393	945391	SW846 7470A Prep	20	mL	20	mL	02/01/10	TXB3

Quality Control Summary

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Aluminum	5000	ug/L	5000	ug/L	100.1	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Arsenic	510	ug/L	500	ug/L	101.9	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Barium	538	ug/L	500	ug/L	107.6	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Calcium	4920	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Chromium	520	ug/L	500	ug/L	104	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Cobalt	538	ug/L	500	ug/L	107.7	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Copper	539	ug/L	500	ug/L	107.8	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Iron	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Magnesium	4810	ug/L	5000	ug/L	96.2	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Nickel	495	ug/L	500	ug/L	99	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Potassium	2430	ug/L	2500	ug/L	97.2	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Selenium	2750	ug/L	2500	ug/L	109.9	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Silver	258	ug/L	250	ug/L	103.2	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Sodium	2420	ug/L	2500	ug/L	97	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Vanadium	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Zinc	505	ug/L	500	ug/L	101	90.0 – 110.0	P	29-JAN-10 06:32	012910-1
	Uranium	52.7	ug/L	50	ug/L	105.5	90.0 – 110.0	MS	29-JAN-10 12:01	100129-3
	Antimony	50.9	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	29-JAN-10 20:43	100129-8
	Cadmium	49.2	ug/L	50	ug/L	98.5	90.0 – 110.0	MS	29-JAN-10 20:43	100129-8
	Lead	52.1	ug/L	50	ug/L	104.3	90.0 – 110.0	MS	29-JAN-10 20:43	100129-8
	Beryllium	52.4	ug/L	50	ug/L	104.9	90.0 – 110.0	MS	30-JAN-10 12:55	100130-9
	Manganese	52.5	ug/L	50	ug/L	104.9	90.0 – 110.0	MS	30-JAN-10 12:55	100130-9
	Mercury	5.09	ug/L	5	ug/L	101.7	90.0 – 110.0	AV	02-FEB-10 09:32	020210W1-13
	Thallium	49.3	ug/L	50	ug/L	98.6	90.0 – 110.0	MS	06-FEB-10 00:28	100205-2
CCV01										
	Aluminum	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Arsenic	529	ug/L	500	ug/L	105.8	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Barium	525	ug/L	500	ug/L	105	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Chromium	524	ug/L	500	ug/L	104.9	90.0 – 110.0	P	29-JAN-10 07:10	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cobalt	526	ug/L	500	ug/L	105.1	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Copper	528	ug/L	500	ug/L	105.5	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Iron	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Magnesium	5210	ug/L	5000	ug/L	104.1	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Nickel	525	ug/L	500	ug/L	105.1	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Potassium	5230	ug/L	5000	ug/L	104.6	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Selenium	542	ug/L	500	ug/L	108.5	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Silver	532	ug/L	500	ug/L	106.4	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Sodium	10100	ug/L	10000	ug/L	101.4	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Vanadium	531	ug/L	500	ug/L	106.2	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Zinc	523	ug/L	500	ug/L	104.6	90.0 – 110.0	P	29-JAN-10 07:10	012910-1
	Uranium	51.8	ug/L	50	ug/L	103.5	90.0 – 110.0	MS	29-JAN-10 12:12	100129-3
	Antimony	51	ug/L	50	ug/L	102	90.0 – 110.0	MS	29-JAN-10 21:01	100129-8
	Cadmium	48.8	ug/L	50	ug/L	97.6	90.0 – 110.0	MS	29-JAN-10 21:01	100129-8
	Lead	51.5	ug/L	50	ug/L	102.9	90.0 – 110.0	MS	29-JAN-10 21:01	100129-8
	Beryllium	51.9	ug/L	50	ug/L	103.7	90.0 – 110.0	MS	30-JAN-10 13:07	100130-9
	Manganese	50.8	ug/L	50	ug/L	101.5	90.0 – 110.0	MS	30-JAN-10 13:07	100130-9
	Mercury	4.97	ug/L	5	ug/L	99.5	80.0 – 120.0	AV	02-FEB-10 09:38	020210W1-13
	Thallium	49.1	ug/L	50	ug/L	98.2	90.0 – 110.0	MS	06-FEB-10 00:51	100205-2
CCV02	Aluminum	5090	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Arsenic	529	ug/L	500	ug/L	105.8	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Barium	527	ug/L	500	ug/L	105.5	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Calcium	5050	ug/L	5000	ug/L	101	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Chromium	526	ug/L	500	ug/L	105.3	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Cobalt	526	ug/L	500	ug/L	105.1	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Copper	529	ug/L	500	ug/L	105.9	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Iron	5100	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Magnesium	5210	ug/L	5000	ug/L	104.3	90.0 – 110.0	P	29-JAN-10 07:21	012910-1
	Nickel	527	ug/L	500	ug/L	105.5	90.0 – 110.0	P	29-JAN-10 07:21	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Potassium	5200	ug/L	5000	ug/L	104	90.0 - 110.0	P	29-JAN-10 07:21	012910-1
	Selenium	542	ug/L	500	ug/L	108.5	90.0 - 110.0	P	29-JAN-10 07:21	012910-1
	Silver	534	ug/L	500	ug/L	106.9	90.0 - 110.0	P	29-JAN-10 07:21	012910-1
	Sodium	10100	ug/L	10000	ug/L	101.4	90.0 - 110.0	P	29-JAN-10 07:21	012910-1
	Vanadium	533	ug/L	500	ug/L	106.5	90.0 - 110.0	P	29-JAN-10 07:21	012910-1
	Zinc	524	ug/L	500	ug/L	104.8	90.0 - 110.0	P	29-JAN-10 07:21	012910-1
	Uranium	51.9	ug/L	50	ug/L	103.9	90.0 - 110.0	MS	29-JAN-10 12:30	100129-3
	Antimony	54.4	ug/L	50	ug/L	108.8	90.0 - 110.0	MS	29-JAN-10 21:12	100129-8
	Cadmium	51.7	ug/L	50	ug/L	103.4	90.0 - 110.0	MS	29-JAN-10 21:12	100129-8
	Lead	53.2	ug/L	50	ug/L	106.3	90.0 - 110.0	MS	29-JAN-10 21:12	100129-8
	Beryllium	51	ug/L	50	ug/L	102.1	90.0 - 110.0	MS	30-JAN-10 13:14	100130-9
	Manganese	51.1	ug/L	50	ug/L	102.2	90.0 - 110.0	MS	30-JAN-10 13:14	100130-9
	Mercury	5.08	ug/L	5	ug/L	101.6	80.0 - 120.0	AV	02-FEB-10 10:01	020210W1-13
	Thallium	49.1	ug/L	50	ug/L	98.2	90.0 - 110.0	MS	06-FEB-10 01:32	100205-2
CCV03	Aluminum	5010	ug/L	5000	ug/L	100.2	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Arsenic	514	ug/L	500	ug/L	102.8	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Barium	514	ug/L	500	ug/L	102.9	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Calcium	4990	ug/L	5000	ug/L	99.9	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Chromium	514	ug/L	500	ug/L	102.7	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Cobalt	514	ug/L	500	ug/L	102.8	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Copper	517	ug/L	500	ug/L	103.3	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Iron	5100	ug/L	5000	ug/L	101.9	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Magnesium	5150	ug/L	5000	ug/L	102.9	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Nickel	512	ug/L	500	ug/L	102.5	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Potassium	5120	ug/L	5000	ug/L	102.4	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Selenium	532	ug/L	500	ug/L	106.3	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Silver	523	ug/L	500	ug/L	104.6	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Sodium	9990	ug/L	10000	ug/L	99.9	90.0 - 110.0	P	29-JAN-10 07:31	012910-1
	Vanadium	521	ug/L	500	ug/L	104.3	90.0 - 110.0	P	29-JAN-10 07:31	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Zinc	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	29-JAN-10 07:31	012910-1
	Uranium	50.8	ug/L	50	ug/L	101.7	90.0 – 110.0	MS	29-JAN-10 12:50	100129-3
	Antimony	50.7	ug/L	50	ug/L	101.3	90.0 – 110.0	MS	29-JAN-10 21:44	100129-8
	Cadmium	48.7	ug/L	50	ug/L	97.4	90.0 – 110.0	MS	29-JAN-10 21:44	100129-8
	Lead	51.7	ug/L	50	ug/L	103.5	90.0 – 110.0	MS	29-JAN-10 21:44	100129-8
	Beryllium	50.1	ug/L	50	ug/L	100.3	90.0 – 110.0	MS	30-JAN-10 13:24	100130-9
	Manganese	50.5	ug/L	50	ug/L	100.9	90.0 – 110.0	MS	30-JAN-10 13:24	100130-9
	Mercury	5.08	ug/L	5	ug/L	101.7	80.0 – 120.0	AV	02-FEB-10 10:24	020210W1-13
	Thallium	47.1	ug/L	50	ug/L	94.1	90.0 – 110.0	MS	06-FEB-10 02:04	100205-2
CCV04	Aluminum	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Arsenic	512	ug/L	500	ug/L	102.5	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Barium	514	ug/L	500	ug/L	102.9	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Calcium	4900	ug/L	5000	ug/L	98	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Chromium	515	ug/L	500	ug/L	102.9	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Cobalt	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Copper	522	ug/L	500	ug/L	104.3	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Iron	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Magnesium	5200	ug/L	5000	ug/L	103.9	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Nickel	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Potassium	5200	ug/L	5000	ug/L	104.1	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Selenium	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Silver	528	ug/L	500	ug/L	105.7	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Sodium	10100	ug/L	10000	ug/L	100.9	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Vanadium	523	ug/L	500	ug/L	104.6	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Zinc	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	29-JAN-10 08:11	012910-1
	Uranium	48.3	ug/L	50	ug/L	96.5	90.0 – 110.0	MS	29-JAN-10 13:12	100129-3
	Antimony	49.9	ug/L	50	ug/L	99.9	90.0 – 110.0	MS	29-JAN-10 22:10	100129-8
	Cadmium	47.6	ug/L	50	ug/L	95.2	90.0 – 110.0	MS	29-JAN-10 22:10	100129-8
	Lead	50	ug/L	50	ug/L	99.9	90.0 – 110.0	MS	29-JAN-10 22:10	100129-8

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Beryllium	50.3	ug/L	50	ug/L	100.6	90.0 - 110.0	MS	30-JAN-10 13:40	100130-9
	Manganese	50.9	ug/L	50	ug/L	101.8	90.0 - 110.0	MS	30-JAN-10 13:40	100130-9
CCV05										
	Aluminum	5190	ug/L	5000	ug/L	103.8	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Arsenic	517	ug/L	500	ug/L	103.5	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Barium	523	ug/L	500	ug/L	104.6	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Calcium	5060	ug/L	5000	ug/L	101.1	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Chromium	522	ug/L	500	ug/L	104.4	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Cobalt	521	ug/L	500	ug/L	104.2	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Copper	527	ug/L	500	ug/L	105.5	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Iron	5230	ug/L	5000	ug/L	104.5	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Magnesium	5300	ug/L	5000	ug/L	106.1	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Nickel	521	ug/L	500	ug/L	104.3	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Potassium	5310	ug/L	5000	ug/L	106.1	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Selenium	541	ug/L	500	ug/L	108.2	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Silver	534	ug/L	500	ug/L	106.8	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Sodium	10300	ug/L	10000	ug/L	102.5	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Vanadium	530	ug/L	500	ug/L	105.9	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Zinc	520	ug/L	500	ug/L	104	90.0 - 110.0	P	29-JAN-10 08:55	012910-1
	Uranium	46.8	ug/L	50	ug/L	93.7	90.0 - 110.0	MS	29-JAN-10 13:28	100129-3
	Beryllium	50.6	ug/L	50	ug/L	101.1	90.0 - 110.0	MS	30-JAN-10 13:57	100130-9
	Manganese	50.7	ug/L	50	ug/L	101.4	90.0 - 110.0	MS	30-JAN-10 13:57	100130-9
CCV06										
	Aluminum	5030	ug/L	5000	ug/L	100.6	90.0 - 110.0	P	29-JAN-10 09:14	012910-1
	Arsenic	513	ug/L	500	ug/L	102.5	90.0 - 110.0	P	29-JAN-10 09:14	012910-1
	Barium	521	ug/L	500	ug/L	104.2	90.0 - 110.0	P	29-JAN-10 09:14	012910-1
	Calcium	4950	ug/L	5000	ug/L	98.9	90.0 - 110.0	P	29-JAN-10 09:14	012910-1
	Chromium	519	ug/L	500	ug/L	103.8	90.0 - 110.0	P	29-JAN-10 09:14	012910-1
	Cobalt	521	ug/L	500	ug/L	104.2	90.0 - 110.0	P	29-JAN-10 09:14	012910-1
	Copper	521	ug/L	500	ug/L	104.2	90.0 - 110.0	P	29-JAN-10 09:14	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Iron	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Magnesium	5140	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Nickel	520	ug/L	500	ug/L	104	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Potassium	5150	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Selenium	538	ug/L	500	ug/L	107.6	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Silver	530	ug/L	500	ug/L	105.9	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Sodium	9900	ug/L	10000	ug/L	99	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Vanadium	527	ug/L	500	ug/L	105.3	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Zinc	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	29-JAN-10 09:14	012910-1
	Uranium	46.8	ug/L	50	ug/L	93.7	90.0 – 110.0	MS	29-JAN-10 13:47	100129-3
CCV07										
	Aluminum	5020	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Arsenic	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Barium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Calcium	4920	ug/L	5000	ug/L	98.5	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Chromium	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Cobalt	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Copper	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Iron	5090	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Magnesium	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Nickel	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Potassium	5130	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Selenium	526	ug/L	500	ug/L	105.3	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Silver	521	ug/L	500	ug/L	104.1	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Sodium	9900	ug/L	10000	ug/L	99	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Vanadium	516	ug/L	500	ug/L	103.3	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Zinc	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	29-JAN-10 09:46	012910-1
	Uranium	47.3	ug/L	50	ug/L	94.5	90.0 – 110.0	MS	29-JAN-10 14:02	100129-3
CCV08										
	Aluminum	5110	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	29-JAN-10 10:19	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Arsenic	524	ug/L	500	ug/L	104.9	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Barium	521	ug/L	500	ug/L	104.2	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Calcium	5010	ug/L	5000	ug/L	100.2	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Chromium	521	ug/L	500	ug/L	104.2	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Cobalt	520	ug/L	500	ug/L	104	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Copper	526	ug/L	500	ug/L	105.2	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Iron	5200	ug/L	5000	ug/L	104.1	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Magnesium	5250	ug/L	5000	ug/L	104.9	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Nickel	520	ug/L	500	ug/L	104	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Potassium	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Selenium	542	ug/L	500	ug/L	108.3	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Silver	532	ug/L	500	ug/L	106.4	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Sodium	10100	ug/L	10000	ug/L	100.5	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Vanadium	529	ug/L	500	ug/L	105.7	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
	Zinc	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	29-JAN-10 10:19	012910-1
CCV09	Aluminum	5110	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Arsenic	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Barium	516	ug/L	500	ug/L	103.2	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Calcium	4940	ug/L	5000	ug/L	98.8	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Chromium	517	ug/L	500	ug/L	103.3	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Cobalt	515	ug/L	500	ug/L	103	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Copper	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Iron	5180	ug/L	5000	ug/L	103.7	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Magnesium	5280	ug/L	5000	ug/L	105.5	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Nickel	515	ug/L	500	ug/L	103	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Potassium	5230	ug/L	5000	ug/L	104.7	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Selenium	522	ug/L	500	ug/L	104.3	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Silver	528	ug/L	500	ug/L	105.6	90.0 – 110.0	P	29-JAN-10 10:46	012910-1
	Sodium	10100	ug/L	10000	ug/L	100.7	90.0 – 110.0	P	29-JAN-10 10:46	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Vanadium	524	ug/L	500	ug/L	104.8	90.0 - 110.0	P	29-JAN-10 10:46	012910-1
	Zinc	515	ug/L	500	ug/L	102.9	90.0 - 110.0	P	29-JAN-10 10:46	012910-1
CCV10										
	Aluminum	5150	ug/L	5000	ug/L	103.1	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Arsenic	526	ug/L	500	ug/L	105.2	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Barium	526	ug/L	500	ug/L	105.1	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Calcium	5040	ug/L	5000	ug/L	100.8	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Chromium	525	ug/L	500	ug/L	105.1	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Cobalt	524	ug/L	500	ug/L	104.8	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Copper	531	ug/L	500	ug/L	106.2	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Iron	5240	ug/L	5000	ug/L	104.9	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Magnesium	5300	ug/L	5000	ug/L	106	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Nickel	526	ug/L	500	ug/L	105.2	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Potassium	5280	ug/L	5000	ug/L	105.7	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Selenium	535	ug/L	500	ug/L	107	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Silver	537	ug/L	500	ug/L	107.4	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Sodium	10100	ug/L	10000	ug/L	101.1	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Vanadium	533	ug/L	500	ug/L	106.7	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
	Zinc	524	ug/L	500	ug/L	104.9	90.0 - 110.0	P	29-JAN-10 11:31	012910-1
CCV11										
	Aluminum	5190	ug/L	5000	ug/L	103.8	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Arsenic	514	ug/L	500	ug/L	102.8	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Barium	527	ug/L	500	ug/L	105.5	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Calcium	5040	ug/L	5000	ug/L	100.9	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Chromium	528	ug/L	500	ug/L	105.5	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Cobalt	525	ug/L	500	ug/L	105.1	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Copper	533	ug/L	500	ug/L	106.7	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Iron	5260	ug/L	5000	ug/L	105.2	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Magnesium	5310	ug/L	5000	ug/L	106.2	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Nickel	526	ug/L	500	ug/L	105.2	90.0 - 110.0	P	29-JAN-10 12:08	012910-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,JCPMS3,JCPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV12	Potassium	5280	ug/L	5000	ug/L	105.6	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Selenium	542	ug/L	500	ug/L	108.4	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Silver	538	ug/L	500	ug/L	107.7	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Sodium	10100	ug/L	10000	ug/L	101.4	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Vanadium	536	ug/L	500	ug/L	107.2	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Zinc	525	ug/L	500	ug/L	105	90.0 - 110.0	P	29-JAN-10 12:08	012910-1
	Aluminum	5130	ug/L	5000	ug/L	102.6	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Arsenic	511	ug/L	500	ug/L	102.3	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Barium	519	ug/L	500	ug/L	103.8	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Calcium	4980	ug/L	5000	ug/L	99.5	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Chromium	518	ug/L	500	ug/L	103.5	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Cobalt	517	ug/L	500	ug/L	103.4	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Copper	524	ug/L	500	ug/L	104.9	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Iron	5210	ug/L	5000	ug/L	104.3	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Magnesium	5240	ug/L	5000	ug/L	104.7	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Nickel	518	ug/L	500	ug/L	103.5	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Potassium	5250	ug/L	5000	ug/L	105	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Selenium	519	ug/L	500	ug/L	103.7	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
CCV13	Silver	532	ug/L	500	ug/L	106.3	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Sodium	10100	ug/L	10000	ug/L	100.7	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Vanadium	527	ug/L	500	ug/L	105.3	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Zinc	517	ug/L	500	ug/L	103.4	90.0 - 110.0	P	29-JAN-10 12:47	012910-1
	Aluminum	5020	ug/L	5000	ug/L	100.5	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Arsenic	500	ug/L	500	ug/L	100	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Barium	508	ug/L	500	ug/L	101.7	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Calcium	4810	ug/L	5000	ug/L	96.2	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Chromium	507	ug/L	500	ug/L	101.4	90.0 - 110.0	P	29-JAN-10 13:17	012910-1
	Cobalt	507	ug/L	500	ug/L	101.5	90.0 - 110.0	P	29-JAN-10 13:17	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Copper	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	29-JAN-10 13:17	012910-1
	Iron	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	29-JAN-10 13:17	012910-1
	Magnesium	5150	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	29-JAN-10 13:17	012910-1
	Nickel	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	29-JAN-10 13:17	012910-1
	Potassium	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	29-JAN-10 13:17	012910-1
	Selenium	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	29-JAN-10 13:17	012910-1
	Silver	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	29-JAN-10 13:17	012910-1
	Sodium	9860	ug/L	10000	ug/L	98.6	90.0 – 110.0	P	29-JAN-10 13:17	012910-1
	Vanadium	517	ug/L	500	ug/L	103.3	90.0 – 110.0	P	29-JAN-10 13:17	012910-1
	Zinc	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	29-JAN-10 13:17	012910-1
CCV14	Aluminum	5020	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Arsenic	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Barium	513	ug/L	500	ug/L	102.5	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Calcium	4840	ug/L	5000	ug/L	96.7	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Chromium	512	ug/L	500	ug/L	102.3	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Cobalt	511	ug/L	500	ug/L	102.1	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Copper	515	ug/L	500	ug/L	103	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Iron	5130	ug/L	5000	ug/L	102.7	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Magnesium	5170	ug/L	5000	ug/L	103.4	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Nickel	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Potassium	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Selenium	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Silver	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Sodium	9860	ug/L	10000	ug/L	98.6	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Vanadium	520	ug/L	500	ug/L	103.9	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
	Zinc	510	ug/L	500	ug/L	102.1	90.0 – 110.0	P	29-JAN-10 13:46	012910-1
CCV15	Aluminum	5010	ug/L	5000	ug/L	100.2	90.0 – 110.0	P	29-JAN-10 14:29	012910-1
	Arsenic	519	ug/L	500	ug/L	103.8	90.0 – 110.0	P	29-JAN-10 14:29	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Barium	519	ug/L	500	ug/L	103.8	90.0 - 110.0	P	29-JAN-10 14:29	012910-1
	Calcium	4930	ug/L	5000	ug/L	98.6	90.0 - 110.0	P	29-JAN-10 14:29	012910-1
	Chromium	518	ug/L	500	ug/L	103.7	90.0 - 110.0	P	29-JAN-10 14:29	012910-1
	Cobalt	517	ug/L	500	ug/L	103.5	90.0 - 110.0	P	29-JAN-10 14:29	012910-1
	Copper	523	ug/L	500	ug/L	104.7	90.0 - 110.0	P	29-JAN-10 14:29	012910-1
	Iron	5120	ug/L	5000	ug/L	102.3	90.0 - 110.0	P	29-JAN-10 14:29	012910-1
	Magnesium	5130	ug/L	5000	ug/L	102.6	90.0 - 110.0	P	29-JAN-10 14:29	012910-1
	Nickel	519	ug/L	500	ug/L	103.8	90.0 - 110.0	P	29-JAN-10 14:29	012910-1
	Potassium	5160	ug/L	5000	ug/L	103.2	90.0 - 110.0	P	29-JAN-10 14:29	012910-1
	Selenium	525	ug/L	500	ug/L	105.1	90.0 - 110.0	P	29-JAN-10 14:29	012910-1
	Silver	526	ug/L	500	ug/L	105.2	90.0 - 110.0	P	29-JAN-10 14:29	012910-1
	Sodium	9830	ug/L	10000	ug/L	98.3	90.0 - 110.0	P	29-JAN-10 14:29	012910-1
	Vanadium	528	ug/L	500	ug/L	105.5	90.0 - 110.0	P	29-JAN-10 14:29	012910-1
	Zinc	517	ug/L	500	ug/L	103.4	90.0 - 110.0	P	29-JAN-10 14:29	012910-1
CCV16	Aluminum	5120	ug/L	5000	ug/L	102.4	90.0 - 110.0	P	29-JAN-10 15:08	012910-1
	Arsenic	521	ug/L	500	ug/L	104.2	90.0 - 110.0	P	29-JAN-10 15:08	012910-1
	Barium	524	ug/L	500	ug/L	104.8	90.0 - 110.0	P	29-JAN-10 15:08	012910-1
	Calcium	4900	ug/L	5000	ug/L	98.1	90.0 - 110.0	P	29-JAN-10 15:08	012910-1
	Chromium	524	ug/L	500	ug/L	104.7	90.0 - 110.0	P	29-JAN-10 15:08	012910-1
	Cobalt	524	ug/L	500	ug/L	104.8	90.0 - 110.0	P	29-JAN-10 15:08	012910-1
	Copper	530	ug/L	500	ug/L	106	90.0 - 110.0	P	29-JAN-10 15:08	012910-1
	Iron	5190	ug/L	5000	ug/L	103.8	90.0 - 110.0	P	29-JAN-10 15:08	012910-1
	Magnesium	5210	ug/L	5000	ug/L	104.1	90.0 - 110.0	P	29-JAN-10 15:08	012910-1
	Nickel	523	ug/L	500	ug/L	104.7	90.0 - 110.0	P	29-JAN-10 15:08	012910-1
	Potassium	5270	ug/L	5000	ug/L	105.3	90.0 - 110.0	P	29-JAN-10 15:08	012910-1
	Selenium	540	ug/L	500	ug/L	108.1	90.0 - 110.0	P	29-JAN-10 15:08	012910-1
	Silver	533	ug/L	500	ug/L	106.6	90.0 - 110.0	P	29-JAN-10 15:08	012910-1
	Sodium	10000	ug/L	10000	ug/L	100.4	90.0 - 110.0	P	29-JAN-10 15:08	012910-1
	Vanadium	533	ug/L	500	ug/L	106.5	90.0 - 110.0	P	29-JAN-10 15:08	012910-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Zinc	523	ug/L	500	ug/L	104.5	90.0 – 110.0	P	29-JAN-10 15:08	012910-1
CCV17										
	Aluminum	5180	ug/L	5000	ug/L	103.6	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Arsenic	531	ug/L	500	ug/L	106.3	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Barium	533	ug/L	500	ug/L	106.7	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Chromium	533	ug/L	500	ug/L	106.6	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Cobalt	531	ug/L	500	ug/L	106.2	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Copper	539	ug/L	500	ug/L	107.8	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Iron	5230	ug/L	5000	ug/L	104.6	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Magnesium	5310	ug/L	5000	ug/L	106.1	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Nickel	534	ug/L	500	ug/L	106.9	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Potassium	5320	ug/L	5000	ug/L	106.3	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Selenium	549	ug/L	500	ug/L	109.9	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Silver	540	ug/L	500	ug/L	108.1	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Sodium	10200	ug/L	10000	ug/L	101.6	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Vanadium	542	ug/L	500	ug/L	108.3	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
	Zinc	531	ug/L	500	ug/L	106.3	90.0 – 110.0	P	29-JAN-10 15:37	012910-1
CCV18										
	Aluminum	5190	ug/L	5000	ug/L	103.8	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Arsenic	524	ug/L	500	ug/L	104.7	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Barium	526	ug/L	500	ug/L	105.2	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Calcium	5010	ug/L	5000	ug/L	100.3	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Chromium	524	ug/L	500	ug/L	104.9	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Cobalt	524	ug/L	500	ug/L	104.8	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Copper	529	ug/L	500	ug/L	105.7	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Iron	5300	ug/L	5000	ug/L	106	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Magnesium	5330	ug/L	5000	ug/L	106.6	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Nickel	525	ug/L	500	ug/L	105	90.0 – 110.0	P	29-JAN-10 16:06	012910-1
	Potassium	5310	ug/L	5000	ug/L	106.2	90.0 – 110.0	P	29-JAN-10 16:06	012910-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Selenium	533	ug/L	500	ug/L	106.6	90.0 - 110.0	P	29-JAN-10 16:06	012910-1
	Silver	532	ug/L	500	ug/L	106.5	90.0 - 110.0	P	29-JAN-10 16:06	012910-1
	Sodium	10200	ug/L	10000	ug/L	101.7	90.0 - 110.0	P	29-JAN-10 16:06	012910-1
	Vanadium	533	ug/L	500	ug/L	106.5	90.0 - 110.0	P	29-JAN-10 16:06	012910-1
	Zinc	524	ug/L	500	ug/L	104.8	90.0 - 110.0	P	29-JAN-10 16:06	012910-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Uranium	.23	ug/L	.2	ug/L	115	70.0 – 130.0	MS	29-JAN-10 12:05	100129-3
	Lead	2.38	ug/L	2	ug/L	118.9	70.0 – 130.0	MS	29-JAN-10 20:50	100129-8
	Antimony	3.55	ug/L	3	ug/L	118.5	70.0 – 130.0	MS	29-JAN-10 20:50	100129-8
	Cadmium	1.12	ug/L	1	ug/L	111.7	70.0 – 130.0	MS	29-JAN-10 20:50	100129-8
	Manganese	6	ug/L	5	ug/L	119.9	70.0 – 130.0	MS	30-JAN-10 13:00	100130-9
	Beryllium	.57	ug/L	.5	ug/L	114	70.0 – 130.0	MS	30-JAN-10 13:00	100130-9
	Mercury	.195	ug/L	.2	ug/L	97.5	70.0 – 130.0	AV	02-FEB-10 09:36	020210W1-13
	Thallium	1.01	ug/L	1	ug/L	100.6	70.0 – 130.0	MS	06-FEB-10 00:37	100205-2
PQL01										
	Aluminum	210	ug/L	200	ug/L	105	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Iron	119	ug/L	100	ug/L	118.6	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Magnesium	331	ug/L	300	ug/L	110.4	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Nickel	5.54	ug/L	5	ug/L	110.9	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Potassium	173	ug/L	150	ug/L	115.5	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Silver	5.41	ug/L	5	ug/L	108.2	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Sodium	310	ug/L	300	ug/L	103.3	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Arsenic	35.8	ug/L	30	ug/L	119.3	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Barium	5.35	ug/L	5	ug/L	106.9	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Chromium	6.19	ug/L	5	ug/L	123.7	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Cobalt	5.2	ug/L	5	ug/L	104.1	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Copper	11.3	ug/L	10	ug/L	112.7	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Vanadium	5.59	ug/L	5	ug/L	111.9	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Zinc	11	ug/L	10	ug/L	109.9	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Calcium	211	ug/L	200	ug/L	105.4	70.0 – 130.0	P	29-JAN-10 06:39	012910-1
	Selenium	39.2	ug/L	30	ug/L	130.7	70.0 – 130.0	P	29-JAN-10 06:39	012910-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
ICB01										
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 06:35	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 06:35	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 06:35	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 06:35	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 06:35	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 06:35	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 06:35	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 06:35	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 06:35	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 06:35	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 06:35	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 06:35	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 06:35	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 06:35	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 06:35	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 06:35	012910-1
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 12:03	100129-3
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	29-JAN-10 20:47	100129-8
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	29-JAN-10 20:47	100129-8
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	29-JAN-10 20:47	100129-8
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	30-JAN-10 12:58	100130-9
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	30-JAN-10 12:58	100130-9
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-FEB-10 09:34	020210W1-13
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	06-FEB-10 00:33	100205-2
CCB01										
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 07:13	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 07:13	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:13	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 07:13	012910-1
	Chromium	1.02	+/-5	J	1.0	5.0	LIQ	P	29-JAN-10 07:13	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:13	012910-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Copper	3.11	+/-10	J	3.0	10.0	LIQ	P	29-JAN-10 07:13	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 07:13	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 07:13	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 07:13	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 07:13	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 07:13	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:13	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 07:13	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:13	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 07:13	012910-1
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 12:14	100129-3
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	29-JAN-10 21:05	100129-8
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	29-JAN-10 21:05	100129-8
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	29-JAN-10 21:05	100129-8
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	30-JAN-10 13:09	100130-9
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	30-JAN-10 13:09	100130-9
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-FEB-10 09:40	020210W1-13
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	06-FEB-10 00:55	100205-2
CCB02	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 07:24	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 07:24	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:24	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 07:24	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:24	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:24	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 07:24	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 07:24	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 07:24	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 07:24	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 07:24	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 07:24	012910-1

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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:24	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 07:24	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:24	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 07:24	012910-1
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 12:32	100129-3
	Antimony	1.17	+/-3	J	1.0	3.0	LIQ	MS	29-JAN-10 21:15	100129-8
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	29-JAN-10 21:15	100129-8
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	29-JAN-10 21:15	100129-8
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	30-JAN-10 13:16	100130-9
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	30-JAN-10 13:16	100130-9
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-FEB-10 10:03	020210W1-13
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	06-FEB-10 01:37	100205-2
CCB03	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 07:35	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 07:35	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:35	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 07:35	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:35	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:35	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 07:35	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 07:35	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 07:35	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 07:35	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 07:35	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 07:35	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:35	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 07:35	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 07:35	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 07:35	012910-1
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 12:52	100129-3
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	29-JAN-10 21:48	100129-8

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SDG No.: 10-1303-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	29-JAN-10 21:48	100129-8
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	29-JAN-10 21:48	100129-8
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	30-JAN-10 13:26	100130-9
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	30-JAN-10 13:26	100130-9
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	02-FEB-10 10:26	020210W1-13
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	06-FEB-10 02:09	100205-2
CCB04	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 08:15	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 08:15	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:15	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 08:15	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:15	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:15	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 08:15	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 08:15	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 08:15	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 08:15	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 08:15	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 08:15	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:15	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 08:15	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:15	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 08:15	012910-1
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 13:14	100129-3
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	29-JAN-10 22:13	100129-8
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	29-JAN-10 22:13	100129-8
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	29-JAN-10 22:13	100129-8
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	30-JAN-10 13:43	100130-9
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	30-JAN-10 13:43	100130-9
CCB05	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 08:59	012910-1

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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	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 08:59	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:59	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 08:59	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:59	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:59	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 08:59	012910-1
	Iron	35.78	+/-100	J	30.0	100	LIQ	P	29-JAN-10 08:59	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 08:59	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 08:59	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 08:59	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 08:59	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:59	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 08:59	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 08:59	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 08:59	012910-1
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 13:30	100129-3
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	30-JAN-10 13:59	100130-9
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	30-JAN-10 13:59	100130-9
CCB06	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 09:18	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 09:18	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:18	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 09:18	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:18	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:18	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 09:18	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 09:18	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 09:18	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 09:18	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 09:18	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 09:18	012910-1

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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB07	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:18	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 09:18	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:18	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 09:18	012910-1
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 13:49	100129-3
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 09:50	012910-1
	Arsenic	6.68	+/-30	J	5.0	30.0	LIQ	P	29-JAN-10 09:50	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:50	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 09:50	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:50	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:50	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 09:50	012910-1
	Iron	35.28	+/-100	J	30.0	100	LIQ	P	29-JAN-10 09:50	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 09:50	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 09:50	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 09:50	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 09:50	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:50	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 09:50	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 09:50	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 09:50	012910-1
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	29-JAN-10 14:05	100129-3
CCB08	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 10:23	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 10:23	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:23	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 10:23	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:23	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:23	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 10:23	012910-1

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SDG No.: 10-1303-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Iron	52.65	+/-100	J	30.0	100	LIQ	P	29-JAN-10 10:23	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 10:23	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 10:23	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 10:23	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 10:23	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:23	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 10:23	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:23	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 10:23	012910-1
CCB09	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 10:50	012910-1
	Arsenic	5.07	+/-30	J	5.0	30.0	LIQ	P	29-JAN-10 10:50	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:50	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 10:50	012910-1
	Chromium	1.0	+/-5	J	1.0	5.0	LIQ	P	29-JAN-10 10:50	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:50	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 10:50	012910-1
	Iron	41.66	+/-100	J	30.0	100	LIQ	P	29-JAN-10 10:50	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 10:50	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 10:50	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 10:50	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 10:50	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:50	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 10:50	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 10:50	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 10:50	012910-1
CCB10	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 11:34	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 11:34	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 11:34	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 11:34	012910-1

Metals
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SDG No.: 10-1303-1

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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	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 11:34	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 11:34	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 11:34	012910-1
	Iron	30.55	+/-100	J	30.0	100	LIQ	P	29-JAN-10 11:34	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 11:34	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 11:34	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 11:34	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 11:34	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 11:34	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 11:34	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 11:34	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 11:34	012910-1
CCB11	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 12:11	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 12:11	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:11	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 12:11	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:11	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:11	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 12:11	012910-1
	Iron	45.47	+/-100	J	30.0	100	LIQ	P	29-JAN-10 12:11	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 12:11	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 12:11	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 12:11	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 12:11	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:11	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 12:11	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:11	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 12:11	012910-1
CCB12	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 12:51	012910-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB13	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 12:51	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:51	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 12:51	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:51	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:51	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 12:51	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 12:51	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 12:51	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 12:51	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 12:51	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 12:51	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:51	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 12:51	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 12:51	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 12:51	012910-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 13:21	012910-1
CCB13	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 13:21	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:21	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 13:21	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:21	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:21	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 13:21	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 13:21	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 13:21	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 13:21	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 13:21	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 13:21	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:21	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 13:21	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:21	012910-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB14	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 13:21	012910-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 13:49	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 13:49	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:49	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 13:49	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:49	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:49	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 13:49	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 13:49	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 13:49	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 13:49	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 13:49	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 13:49	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:49	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 13:49	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 13:49	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 13:49	012910-1
CCB15	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 14:33	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 14:33	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 14:33	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 14:33	012910-1
	Chromium	1.09	+/-5	J	1.0	5.0	LIQ	P	29-JAN-10 14:33	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 14:33	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 14:33	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 14:33	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 14:33	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 14:33	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 14:33	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 14:33	012910-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
CCB16	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 14:33	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 14:33	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 14:33	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 14:33	012910-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 15:12	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 15:12	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:12	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 15:12	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:12	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:12	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 15:12	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 15:12	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 15:12	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 15:12	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 15:12	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 15:12	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:12	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 15:12	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:12	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 15:12	012910-1
CCB17	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 15:41	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 15:41	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:41	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 15:41	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:41	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:41	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 15:41	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 15:41	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 15:41	012910-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1303-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB18	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 15:41	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 15:41	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 15:41	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:41	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 15:41	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 15:41	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 15:41	012910-1
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	29-JAN-10 16:10	012910-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 16:10	012910-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 16:10	012910-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	29-JAN-10 16:10	012910-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 16:10	012910-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 16:10	012910-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	29-JAN-10 16:10	012910-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	29-JAN-10 16:10	012910-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	29-JAN-10 16:10	012910-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	29-JAN-10 16:10	012910-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	29-JAN-10 16:10	012910-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	29-JAN-10 16:10	012910-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 16:10	012910-1
	Sodium	100	+/-300	U	100	300	LIQ	P	29-JAN-10 16:10	012910-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	29-JAN-10 16:10	012910-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	29-JAN-10 16:10	012910-1

METALS
~3b~
PREPARATION BLANK SUMMARY

SDG NO. 10-1303-1

Contract: LANL01004

Matrix: WATER

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Acceptance Window</u>	<u>Conc Qual</u>	<u>M</u>	<u>MDL</u>	<u>RDL</u>
1202021499	Aluminum	68	ug/L	+/-200	U	P	68	200
	Arsenic	5	ug/L	+/-30	U	P	5	30
	Barium	1	ug/L	+/-5	U	P	1	5
	Calcium	50	ug/L	+/-200	U	P	50	200
	Chromium	1	ug/L	+/-5	U	P	1	5
	Cobalt	1	ug/L	+/-5	U	P	1	5
	Copper	3	ug/L	+/-10	U	P	3	10
	Iron	30	ug/L	+/-100	U	P	30	100
	Magnesium	85	ug/L	+/-300	U	P	85	300
	Nickel	1.5	ug/L	+/-5	U	P	1.5	5
	Potassium	50	ug/L	+/-150	U	P	50	150
	Selenium	6.63	ug/L	+/-30	J	P	5	30
	Silver	1	ug/L	+/-5	U	P	1	5
	Sodium	100	ug/L	+/-300	U	P	100	300
	Vanadium	1	ug/L	+/-5	U	P	1	5
	Zinc	3.3	ug/L	+/-10	U	P	3.3	10
1202021504	Antimony	1	ug/L	+/-3	U	MS	1	3
	Beryllium	0.1	ug/L	+/-0.5	U	MS	0.1	0.5
	Cadmium	0.11	ug/L	+/-1	U	MS	0.11	1
	Lead	0.5	ug/L	+/-2	U	MS	0.5	2
	Manganese	1	ug/L	+/-5	U	MS	1	5
	Thallium	0.3	ug/L	+/-1	U	MS	0.3	1
	Uranium	0.05	ug/L	+/-0.2	U	MS	0.05	0.2
1202024759	Mercury	0.066	ug/L	+/-0.2	U	AV	0.066	0.2

METALS

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Interference Check Sample

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Aluminum	517000	ug/L	500000	ug/L	103	80.0 ~ 120.0	29-JAN-10 06:42	012910-1
	Arsenic	-17.6	ug/L					29-JAN-10 06:42	012910-1
	Barium	7.1	ug/L					29-JAN-10 06:42	012910-1
	Calcium	487000	ug/L	500000	ug/L	97.4	80.0 ~ 120.0	29-JAN-10 06:42	012910-1
	Chromium	-0.093	ug/L					29-JAN-10 06:42	012910-1
	Cobalt	1.74	ug/L					29-JAN-10 06:42	012910-1
	Copper	2.47	ug/L					29-JAN-10 06:42	012910-1
	Iron	192000	ug/L	200000	ug/L	96.2	80.0 ~ 120.0	29-JAN-10 06:42	012910-1
	Magnesium	498000	ug/L	500000	ug/L	99.5	80.0 ~ 120.0	29-JAN-10 06:42	012910-1
	Nickel	1.46	ug/L					29-JAN-10 06:42	012910-1
	Potassium	-96.2	ug/L					29-JAN-10 06:42	012910-1
	Selenium	22.2	ug/L					29-JAN-10 06:42	012910-1
	Silver	-7.97	ug/L					29-JAN-10 06:42	012910-1
	Sodium	24.4	ug/L					29-JAN-10 06:42	012910-1
	Vanadium	2.53	ug/L					29-JAN-10 06:42	012910-1
	Zinc	0.91	ug/L					29-JAN-10 06:42	012910-1
ICSAB01									
	Aluminum	522000	ug/L	500000	ug/L	104	80.0 ~ 120.0	29-JAN-10 06:45	012910-1
	Arsenic	520	ug/L	500	ug/L	104	80.0 ~ 120.0	29-JAN-10 06:45	012910-1
	Barium	530	ug/L	500	ug/L	106	80.0 ~ 120.0	29-JAN-10 06:45	012910-1
	Calcium	492000	ug/L	500000	ug/L	98.5	80.0 ~ 120.0	29-JAN-10 06:45	012910-1
	Chromium	515	ug/L	500	ug/L	103	80.0 ~ 120.0	29-JAN-10 06:45	012910-1
	Cobalt	466	ug/L	500	ug/L	93.2	80.0 ~ 120.0	29-JAN-10 06:45	012910-1
	Copper	586	ug/L	500	ug/L	117	80.0 ~ 120.0	29-JAN-10 06:45	012910-1
	Iron	192000	ug/L	200000	ug/L	95.9	80.0 ~ 120.0	29-JAN-10 06:45	012910-1
	Magnesium	498000	ug/L	500000	ug/L	99.6	80.0 ~ 120.0	29-JAN-10 06:45	012910-1
	Nickel	467	ug/L	500	ug/L	93.5	80.0 ~ 120.0	29-JAN-10 06:45	012910-1
	Potassium	5300	ug/L	5000	ug/L	106	80.0 ~ 120.0	29-JAN-10 06:45	012910-1
	Selenium	2540	ug/L	2500	ug/L	102	80.0 ~ 120.0	29-JAN-10 06:45	012910-1

METALS

-4-

Interference Check Sample

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

ICS:

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Silver	268	ug/L	250	ug/L	107	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Sodium	5170	ug/L	5000	ug/L	103	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Vanadium	546	ug/L	500	ug/L	109	80.0 – 120.0	29-JAN-10 06:45	012910-1
	Zinc	499	ug/L	500	ug/L	99.7	80.0 – 120.0	29-JAN-10 06:45	012910-1

METALS

-4-

Interference Check Sample

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Thallium	-0.018	ug/L					06-FEB-10 00:42	100205-2
ICSAB01	Thallium	19.4	ug/L	20	ug/L	97.1	80.0 - 120.0	06-FEB-10 00:46	100205-2

METALS

-4-

Interference Check Sample

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Uranium	0.001	ug/L					29-JAN-10 12:08	100129-3
ICSAB01	Uranium	21.1	ug/L	20	ug/L	105	80.0 - 120.0	29-JAN-10 12:10	100129-3

METALS

-4-

Interference Check Sample

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (% R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Antimony	0.272	ug/L					29-JAN-10 20:54	100129-8
	Cadmium	0.664	ug/L					29-JAN-10 20:54	100129-8
	Lead	0.237	ug/L					29-JAN-10 20:54	100129-8
ICSAB01									
	Antimony	21.4	ug/L	20	ug/L	107	80.0 - 120.0	29-JAN-10 20:57	100129-8
	Cadmium	20.1	ug/L	20.44	ug/L	98.2	80.0 - 120.0	29-JAN-10 20:57	100129-8
	Lead	20.4	ug/L	20.19	ug/L	101	80.0 - 120.0	29-JAN-10 20:57	100129-8

METALS
-4-
Interference Check Sample

SDG No: 10-1303-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Beryllium	0.116	ug/L					30-JAN-10 13:02	100130-9
	Manganese	6.34	ug/L					30-JAN-10 13:02	100130-9
ICSAB01									
	Beryllium	21.5	ug/L	20	ug/L	108	80.0 - 120.0	30-JAN-10 13:05	100130-9
	Manganese	27.2	ug/L	25.8	ug/L	105	80.0 - 120.0	30-JAN-10 13:05	100130-9

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1303-1 Client ID RE15-10-7226S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 245120001 Spike ID: 1202021502

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75-125	547		5	U	500	109		P
Barium	ug/L	75-125	540		1	U	500	108		P
Calcium	ug/L	75-125	5100		50	U	5000	101		P
Chromium	ug/L	75-125	538		1.24	J	500	107		P
Cobalt	ug/L	75-125	527		1	U	500	105		P
Copper	ug/L	75-125	546		3	U	500	109		P
Iron	ug/L	75-125	5300		32.5	J	5000	105		P
Magnesium	ug/L	75-125	5330		85	U	5000	106		P
Nickel	ug/L	75-125	539		1.5	U	500	108		P
Potassium	ug/L	75-125	5400		129	J	5000	105		P
Selenium	ug/L	75-125	519		5	U	500	103		P
Silver	ug/L	75-125	533		1	U	500	107		P
Sodium	ug/L	75-125	5130		100	U	5000	102		P
Vanadium	ug/L	75-125	548		1	U	500	109		P
Zinc	ug/L	75-125	522		3.3	U	500	104		P
Aluminum	ug/L	75-125	5220		68	U	5000	104		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1303-1 Client ID RE15-10-7226S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 245120001 Spike ID: 1202021507

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75-125	207		1	U	200	104		MS
Beryllium	ug/L	75-125	57.6		0.1	U	50	115		MS
Cadmium	ug/L	75-125	10.4		0.11	U	10	104		MS
Lead	ug/L	75-125	43.1		0.5	U	40	107		MS
Manganese	ug/L	75-125	52.8		1	U	50	104		MS
Thallium	ug/L	75-125	101		0.3	U	100	101		MS
Uranium	ug/L	75-125	49.2		0.05	U	50	98.4		MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1303-1 Client ID RE15-10-7226S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 245120001 Spike ID: 1202024762

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Mercury	ug/L	75-125	2.12		0.066	U	2	106		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE15-10-7226D

Sample ID: 245120001

Duplicate ID: 1202021501

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L		68 U		68 U				P
Arsenic	ug/L		5 U		5 U				P
Barium	ug/L		1 U		1 U				P
Calcium	ug/L		50 U		50 U				P
Chromium	ug/L		1.24 J		1 U		200		P
Cobalt	ug/L		1 U		1 U				P
Copper	ug/L		3 U		3 U				P
Iron	ug/L	+/-100	32.5 J		44.5 J		31.1		P
Magnesium	ug/L		85 U		85 U				P
Nickel	ug/L		1.5 U		1.5 U				P
Potassium	ug/L	+/-150	129 J		121 J		6.45		P
Selenium	ug/L		5 U		5 U				P
Silver	ug/L		1 U		1 U				P
Sodium	ug/L		100 U		100 U				P
Vanadium	ug/L		1 U		1 U				P
Zinc	ug/L		3.3 U		3.3 U				P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1303-1

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE15-10-7226D

Sample ID: 245120001

Duplicate ID: 1202021506

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L		1 U		1 U				MS
Beryllium	ug/L		0.1 U		0.1 U				MS
Cadmium	ug/L		0.11 U		0.11 U				MS
Lead	ug/L		0.5 U		0.5 U				MS
Manganese	ug/L		1 U		1 U				MS
Thallium	ug/L		0.3 U		0.3 U				MS
Uranium	ug/L		0.05 U		0.05 U				MS

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Client ID: RE15-10-7226D

Percent Solids for Dup: N/A

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1303-1

Contract: LANL01004

Aqueous LCS Source:OS2I

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202021500								
	Silver	ug/L	500	532		106	80-120	P
	Sodium	ug/L	5000	5050		101	80-120	P
	Vanadium	ug/L	500	546		109	80-120	P
	Zinc	ug/L	500	521		104	80-120	P
	Aluminum	ug/L	5000	5200		104	80-120	P
	Arsenic	ug/L	500	540		108	80-120	P
	Barium	ug/L	500	538		108	80-120	P
	Calcium	ug/L	5000	5090		102	80-120	P
	Chromium	ug/L	500	536		107	80-120	P
	Cobalt	ug/L	500	524		105	80-120	P
	Copper	ug/L	500	541		108	80-120	P
	Iron	ug/L	5000	5280		106	80-120	P
	Magnesium	ug/L	5000	5250		105	80-120	P
	Nickel	ug/L	500	534		107	80-120	P
	Potassium	ug/L	5000	5310		106	80-120	P
	Selenium	ug/L	500	521		104	80-120	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1303-1

Contract: LANL01004

Aqueous LCS Source: O2si

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202021505								
	Antimony	ug/L	50	51.3		103	80-120	MS
	Beryllium	ug/L	50	56		112	80-120	MS
	Cadmium	ug/L	50	49.5		99.1	80-120	MS
	Lead	ug/L	50	51.6		103	80-120	MS
	Manganese	ug/L	50	52.2		104	80-120	MS
	Thallium	ug/L	50	51		102	80-120	MS
	Uranium	ug/L	50	46.6		93.1	80-120	MS

METALS

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Laboratory Control Sample Summary

SDG NO. 10-1303-1

Contract: LANL01004

Aqueous LCS Source: GEL

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202024760	Mercury	ug/L	2	2.06		103	80-120	AV

METALS

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Serial Dilution Sample Summary

SDG NO. 10-1303-1 Client ID RE15-10-7226L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 245120001 Serial Dilution ID: 1202021503

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	68	U	340	U				P
Arsenic	5	U	25	U				P
Barium	1	U	5	U				P
Calcium	50	U	250	U				P
Chromium	1.24	J	6.1	J	392			P
Cobalt	1	U	5	U				P
Copper	3	U	15	U				P
Iron	32.5	J	150	U	100			P
Magnesium	85	U	425	U				P
Nickel	1.5	U	7.5	U				P
Potassium	129	J	250	U	100			P
Selenium	5	U	25	U				P
Silver	1	U	5	U				P
Sodium	100	U	500	U				P
Vanadium	1	U	5	U				P
Zinc	3.3	U	16.5	U				P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1303-1 Client ID RE15-10-7226L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 245120001 Serial Dilution ID: 1202021508

Analyte	<u>Initial Value ug/L</u>	<u>C</u>	<u>Serial Value ug/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Antimony	1	U	5	U				MS
Beryllium	.1	U	.5	U				MS
Cadmium	.11	U	.55	U				MS
Lead	.5	U	2.5	U				MS
Manganese	1	U	5	U				MS
Thallium	.3	U	2.34	J				MS
Uranium	.05	U	.25	U				MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1303-1 Client ID RE15-10-7226L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 245120001 Serial Dilution ID: 1202024763

<u>Analyte</u>	<u>Initial Value ng/L</u>	<u>C</u>	<u>Serial Value ng/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Mercury	.066	U	.33	U				AV

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-1303-1

Method Type: P

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number 944076							
1202021499	MB for batch 944076	MB	W	25-JAN-10	50mL	50mL	
1202021500	LCS for batch 944076	LCS	W	25-JAN-10	50mL	50mL	
1202021502	RE15-10-7226S	MS	W	25-JAN-10	50mL	50mL	
1202021501	RE15-10-7226D	DUP	W	25-JAN-10	50mL	50mL	
245137001	RE15-10-7228	SAMPLE	W	25-JAN-10	50mL	50mL	
245137002	RE15-10-7224	SAMPLE	W	25-JAN-10	50mL	50mL	
245137003	RE15-10-7227	SAMPLE	W	25-JAN-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1303-1

Method Type: MS

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	944079						
1202021504	MB for batch 944079	MB	W	25-JAN-10	50mL	50mL	
1202021505	LCS for batch 944079	LCS	W	25-JAN-10	50mL	50mL	
1202021507	RE15-10-7226S	MS	W	25-JAN-10	50mL	50mL	
1202021878	RE15-10-7226S	MS	W	25-JAN-10	50mL	50mL	
1202021506	RE15-10-7226D	DUP	W	25-JAN-10	50mL	50mL	
245137001	RE15-10-7228	SAMPLE	W	25-JAN-10	50mL	50mL	
245137002	RE15-10-7224	SAMPLE	W	25-JAN-10	50mL	50mL	
245137003	RE15-10-7227	SAMPLE	W	25-JAN-10	50mL	50mL	

SW846

METALS
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SAMPLE PREPARATION SUMMARY

SDG No: 10-1303-1

Method Type: AV

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	945391						
1202024759	MB for batch 945391	MB	W	01-FEB-10	20mL	20mL	
1202024760	LCS for batch 945391	LCS	W	01-FEB-10	20mL	20mL	
1202024762	RE15-10-7226S	MS	W	01-FEB-10	20mL	20mL	
1202024761	RE15-10-7226D	DUP	W	01-FEB-10	20mL	20mL	
245137001	RE15-10-7228	SAMPLE	W	01-FEB-10	20mL	20mL	
245137002	RE15-10-7224	SAMPLE	W	01-FEB-10	20mL	20mL	
245137003	RE15-10-7227	SAMPLE	W	01-FEB-10	20mL	20mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004**Lab Code:** GEL**Inst Name:** ICPMS5**Start Date:** 29-JAN-10**End Date:** 29-JAN-10**Client Sdg:** 10-1303-1**Method:** MS**Data File:** 100129-3

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	11:55																						X		
S10	1	11:57																						X		
S100	1	11:59																						X		
ICV01	1	12:01																						X		
ICB01	1	12:03																						X		
CRDL01	1	12:05																						X		
ICSA01	1	12:08																						X		
ICSAB01	1	12:10																						X		
CCV01	1	12:12																						X		
CCB01	1	12:14																						X		
ZZZZZZ	1	12:16																								
ZZZZZZ	1	12:19																								
ZZZZZZ	1	12:21																								
ZZZZZZ	1	12:23																								
ZZZZZZ	1	12:25																								
ZZZZZZ	1	12:28																								
CCV02	1	12:30																						X		
CCB02	1	12:32																						X		
ZZZZZZ	1	12:39																								
ZZZZZZ	1	12:41																								
ZZZZZZ	1	12:44																								
ZZZZZZ	5	12:46																								
ZZZZZZ	1	12:48																								
CCV03	1	12:50																						X		
CCB03	1	12:52																						X		
ZZZZZZ	1	12:56																								
ZZZZZZ	1	12:58																								
ZZZZZZ	1	13:00																								
ZZZZZZ	1	13:03																								
ZZZZZZ	1	13:05																								
ZZZZZZ	1	13:07																								
ZZZZZZ	5	13:10																								
CCV04	1	13:12																						X		
CCB04	1	13:14																						X		
ZZZZZZ	1	13:16																								
ZZZZZZ	1	13:19																								
ZZZZZZ	1	13:21																								
ZZZZZZ	1	13:23																								
ZZZZZZ	1	13:25																								
CCV05	1	13:28																						X		

Metals
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Analysis Run Log

[illegible]

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 29-JAN-10

End Date: 29-JAN-10

Client Sdg: 10-1303-1

Method MS

Data File: 100129-8

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	20:32		X				X						X												
S10	1	20:36		X				X						X												
S100	1	20:39		X				X						X												
ICV01	1	20:43		X				X						X												
ICB01	1	20:47		X				X						X												
CRDL01	1	20:50		X				X						X												
ICSA01	1	20:54		X				X						X												
ICSAB01	1	20:57		X				X						X												
CCV01	1	21:01		X				X						X												
CCB01	1	21:05		X				X						X												
LR01	1	21:08		X				X						X												
CCV02	1	21:12		X				X						X												
CCB02	1	21:15		X				X						X												
1202021504	1	21:19		X				X						X												
1202021505	1	21:23		X				X						X												
ZZZZZZ	1	21:26																								
ZZZZZZ	1	21:30																								
1202021506	1	21:33		X				X						X												
1202021507	1	21:37		X				X						X												
1202021508	5	21:41		X				X						X												
CCV03	1	21:44		X				X						X												
CCB03	1	21:48		X				X						X												
ZZZZZZ	1	21:52																								
ZZZZZZ	1	21:55																								
245137001	1	21:59		X				X						X												
245137002	1	22:02		X				X						X												
245137003	1	22:06		X				X						X												
CCV04	1	22:10		X				X						X												
CCB04	1	22:13		X				X						X												

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 30-JAN-10

End Date: 30-JAN-10

Client Sdg: 10-1303-1

Method MS

Data File: 100130-9

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	12:48					X									X										
S10	1	12:51					X									X										
S100	1	12:53					X									X										
ICV01	1	12:55					X									X										
ICB01	1	12:58					X									X										
CRDL01	1	13:00					X									X										
ICSA01	1	13:02					X									X										
ICSAB01	1	13:05					X									X										
CCV01	1	13:07					X									X										
CCB01	1	13:09					X									X										
LR01	1	13:12					X									X										
CCV02	1	13:14					X									X										
CCB02	1	13:16					X									X										
1202021504	1	13:19					X									X										
1202021505	1	13:21					X									X										
CCV03	1	13:24					X									X										
CCB03	1	13:26					X									X										
ZZZZZZ	1	13:28																								
ZZZZZZ	1	13:31																								
1202021506	1	13:33					X									X										
1202021507	1	13:35					X									X										
1202021508	5	13:38					X									X										
CCV04	1	13:40					X									X										
CCB04	1	13:43					X									X										
ZZZZZZ	1	13:45																								
ZZZZZZ	1	13:47																								
245137001	1	13:50					X									X										
245137002	1	13:52					X									X										
245137003	1	13:55					X									X										
CCV05	1	13:57					X									X										
CCB05	1	13:59					X									X										

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: HG3

Start Date: 02-FEB-10

End Date: 02-FEB-10

Client Sdg: 10-1303-1

Method AV

Data File: 020210W1-13

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Ti	U	V	Zn
S0.0	1	09:21															X									
S0.2	1	09:23															X									
S0.5	1	09:25															X									
S2.0	1	09:27															X									
S5.0	1	09:28															X									
S10.0	1	09:30															X									
ICV01	1	09:32															X									
ICB01	1	09:34															X									
CRDL01	1	09:36															X									
CCV01	1	09:38															X									
CCB01	1	09:40															X									
ZZZZZZ	1	09:42																								
ZZZZZZ	1	09:44																								
ZZZZZZ	1	09:46																								
ZZZZZZ	1	09:48																								
ZZZZZZ	1	09:50																								
ZZZZZZ	5	09:52																								
1202024759	1	09:53															X									
1202024760	1	09:55															X									
ZZZZZZ	1	09:57																								
ZZZZZZ	1	09:59																								
CCV02	1	10:01															X									
CCB02	1	10:03															X									
1202024761	1	10:05															X									
1202024762	1	10:07															X									
1202024763	5	10:09															X									
ZZZZZZ	1	10:11																								
ZZZZZZ	1	10:13																								
245137001	1	10:15															X									
245137002	1	10:17															X									
245137003	1	10:18															X									
ZZZZZZ	1	10:20																								
ZZZZZZ	1	10:22																								
CCV03	1	10:24															X									
CCB03	1	10:26															X									

Metals
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Analysis Run Log

Contract: LANL01004**Lab Code:** GEL**Inst Name:** ICPMS3**Start Date:** 06-FEB-10**End Date:** 06-FEB-10**Client Sdg:** 10-1303-1**Method:** MS**Data File:** 100205-2

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	00:15																					X			
S10	1	00:19																					X			
S100	1	00:24																					X			
ICV01	1	00:28																					X			
ICB01	1	00:33																					X			
CRDL01	1	00:37																					X			
ICSA01	1	00:42																					X			
ICSAB01	1	00:46																					X			
CCV01	1	00:51																					X			
CCB01	1	00:55																					X			
1202021504	1	01:00																					X			
1202021505	1	01:05																					X			
ZZZZZZ	1	01:09																								
ZZZZZZ	1	01:14																								
1202021506	1	01:18																					X			
1202021507	1	01:23																					X			
1202021508	5	01:27																					X			
CCV02	1	01:32																					X			
CCB02	1	01:37																					X			
ZZZZZZ	1	01:41																								
ZZZZZZ	1	01:46																								
245137001	1	01:50																					X			
245137002	1	01:55																					X			
245137003	1	02:00																					X			
CCV03	1	02:04																					X			
CCB03	1	02:09																					X			

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA1

Start Date: 29-JAN-10

End Date: 29-JAN-10

Client Sdg: 10-1303-1

Method P

Data File: 012910-1

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	06:16	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
S0.1	1	06:19			X	X			X	X	X							X	X	X	X				X	X
S0.5	1	06:22	X		X	X			X	X	X	X			X			X	X	X	X				X	X
SCAL	1	06:26	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
S10	1	06:29	X						X				X		X							X				
ICV01	1	06:32	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICB01	1	06:35	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
PQL01	1	06:39	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICSA01	1	06:42	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ICSAB01	1	06:45	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR01	1	06:48	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR02	1	06:51	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	06:54																								
ZZZZZZ	1	06:58																								
CCV01	1	07:10	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB01	1	07:13	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
LR03	1	07:17	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCV02	1	07:21	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB02	1	07:24	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	5	07:28																								
CCV03	1	07:31	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB03	1	07:35	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	07:39																								
ZZZZZZ	1	07:42																								
ZZZZZZ	1	07:45																								
ZZZZZZ	1	07:49																								
ZZZZZZ	1	07:53																								
ZZZZZZ	1	07:56																								
ZZZZZZ	5	08:00																								
ZZZZZZ	1	08:04																								
ZZZZZZ	1	08:07																								
CCV04	1	08:11	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB04	1	08:15	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	08:18																								
ZZZZZZ	1	08:22																								
ZZZZZZ	1	08:26																								
ZZZZZZ	1	08:29																								
ZZZZZZ	1	08:33																								
ZZZZZZ	1	08:37																								
ZZZZZZ	1	08:40																								

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Metals
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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	11:27																								
CCV10	1	11:31	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB10	1	11:34	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	11:38																								
ZZZZZZ	1	11:42																								
ZZZZZZ	1	11:46																								
ZZZZZZ	1	11:49																								
ZZZZZZ	1	11:53																								
ZZZZZZ	1	11:57																								
ZZZZZZ	1	12:00																								
ZZZZZZ	1	12:04																								
CCV11	1	12:08	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB11	1	12:11	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	12:26																								
ZZZZZZ	1	12:29																								
ZZZZZZ	1	12:33																								
ZZZZZZ	1	12:37																								
ZZZZZZ	1	12:40																								
ZZZZZZ	5	12:44																								
CCV12	1	12:47	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB12	1	12:51	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	12:55																								
ZZZZZZ	1	12:59																								
ZZZZZZ	1	13:02																								
ZZZZZZ	1	13:06																								
ZZZZZZ	1	13:10																								
ZZZZZZ	5	13:13																								
CCV13	1	13:17	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB13	1	13:21	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	13:24																								
ZZZZZZ	1	13:28																								
ZZZZZZ	1	13:31																								
ZZZZZZ	1	13:35																								
ZZZZZZ	1	13:39																								
ZZZZZZ	1	13:42																								
CCV14	1	13:46	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
CCB14	1	13:49	X		X	X			X	X	X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	10	14:04																								
ZZZZZZ	10	14:07																								
ZZZZZZ	10	14:11																								

Metals
-14-
Analysis Run Log

[illegible]

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1303-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP/MS	<u>Analyte</u>	<u>Wavelength (nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
LIQUID	Aluminum		15.0	30
	Antimony		1.0	3
	Arsenic		1.6	5
	Barium		0.6	2
	Beryllium		0.1	.5
	Cadmium		0.11	1
	Calcium		65.0	200
	Chromium		2.0	10
	Cobalt		0.1	1
	Copper		0.33	1
	Iron		33.0	100
	Lead		0.5	2
	Magnesium		5.2	15
	Manganese		1.0	5
	Nickel		0.5	2
	Potassium		80.0	300
	Selenium		1.0	5
	Silver		0.2	1
	Sodium		80.0	250
	Thallium		0.3	1
	Uranium		0.05	.2
	Vanadium		3.0	10
	Zinc		3.0	10

METALS
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Instrument Detection Limits

SDG NO. 10-1303-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-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				
LIQUID	Mercury		0.066	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1303-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
LIQUID	Aluminum	396.153	68.0	200
	Antimony	206.836	3.0	10
	Arsenic	188.979	5.0	30
	Barium	233.527	1.0	5
	Beryllium	313.107	1.0	5
	Cadmium	226.502	1.0	5
	Calcium	317.933	50.0	200
	Chromium	267.716	1.0	5
	Cobalt	228.616	1.0	5
	Copper	324.752	3.0	10
	Iron	238.204	30.0	100
	Lead	220.353	3.3	10
	Magnesium	279.077	85.0	300
	Manganese	257.61	2.0	10
	Nickel	231.604	1.5	5
	Potassium	766.49	50.0	150
	Selenium	196.026	5.0	30
	Silver	328.068	1.0	5
	Sodium	589.592	100	300
	Thallium	190.801	5.0	20
	Uranium	409.014	10.0	50
	Vanadium	292.402	1.0	5
	Zinc	213.857	3.3	10

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1303-1**

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: **01-NOV-09**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Aluminum	Antimony	Arsenic	Barium	Beryllium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.05500	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	-0.28800	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-0.04600	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1303-1**Contract: LANI.01004Instrument: OPTIMA1Effective Dates: **01-NOV-09**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Boron	Cadmium	Chromium	Cobalt	Copper
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	11.3250	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	-1.59900	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	-21.2250	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	1.68400
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	1.19100	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	105.59
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	3.36300	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	-2.30400	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.61100

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1303-1**

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: **01-NOV-09**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Iron	Lead	Magnesium	Manganese	Molybdenum
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	20.5430
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	-16.3320
Arsenic	188.979	-0.05800	0.00000	0.00000	0.00000	1.97700
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.13300	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	-0.90500
Copper	324.752	-0.13900	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.03800	-2.87600	0.00000	0.00000	0.00000
Magnesium	279.077	1.07300	0.00000	0.00000	0.00000	-16.8110
Manganese	257.61	-0.13900	0.00000	0.04000	0.00000	0.00000
Molybdenum	202.031	-0.03800	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	-0.01300	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.81200	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.88200	0.00000	0.28200	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	-0.06300	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-0.03900	0.00000	0.00000	-4.11700	0.00000
Tin	189.927	-0.09200	0.00000	-0.19600	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.07900	0.00000	0.00000
Uranium	409.014	0.13900	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	-0.05300	0.00000	0.00000	0.00000	-7.71400
Zinc	213.857	0.14460	0.00000	0.02030	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1303-1

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: 01-NOV-09

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Nickel	Phosphorous	Selenium	Silicon	Silver
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	-0.99900	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	4.41600	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1303-1

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: 01-NOV-09

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Sulfur	Thallium	Tin	Titanium	Uranium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.38100	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	2.08700	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	1.04000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	-14.8110	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-8.68900	-1.22400
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	-1.03900
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1303-1**Contract: **LANL01004**Instrument: **OPTIMA1**Effective Dates: **01-NOV-09**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

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

METALS
-12-
Linear Ranges

SDG NO. 10-1303-1

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS5

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	1	50000	ug/L	01-NOV-09
Antimony	1000	250	ug/L	01-NOV-09
Arsenic	1000	1000	ug/L	01-NOV-09
Barium	1000	1000	ug/L	01-NOV-09
Beryllium	1000	1000	ug/L	01-NOV-09
Cadmium	1000	1000	ug/L	01-NOV-09
Calcium	500	50000	ug/L	01-NOV-09
Chromium	1000	1000	ug/L	01-NOV-09
Cobalt	1000	1000	ug/L	01-NOV-09
Copper	1000	1000	ug/L	01-NOV-09
Iron	500	50000	ug/L	01-NOV-09
Lead	1000	5000	ug/L	01-NOV-09
Magnesium	1	50000	ug/L	01-NOV-09
Manganese	1000	1000	ug/L	01-NOV-09
Potassium	1	50000	ug/L	01-NOV-09
Selenium	1000	500	ug/L	01-NOV-09
Silver	1000	250	ug/L	01-NOV-09
Sodium	1	50000	ug/L	01-NOV-09
Thallium	1000	500	ug/L	01-NOV-09
Uranium	1000	5000	ug/L	01-NOV-09
Vanadium	1000	100	ug/L	01-NOV-09
Zinc	1000	2500	ug/L	01-NOV-09
Nickel	1000	1000	ug/L	01-NOV-09

METALS
-12-
Linear Ranges

SDG NO. 10-1303-1

Contract: LANL01004

Lab Code: GEL

Instrument IDICPMS3

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Arsenic	1000	1000	ug/L	01-NOV-09
Barium	1000	1000	ug/L	01-NOV-09
Beryllium	1000	1000	ug/L	01-NOV-09
Cadmium	1000	1000	ug/L	01-NOV-09
Calcium	500	50000	ug/L	01-NOV-09
Chromium	1000	1000	ug/L	01-NOV-09
Cobalt	1000	1000	ug/L	01-NOV-09
Copper	1000	1000	ug/L	01-NOV-09
Iron	500	50000	ug/L	01-NOV-09
Lead	1000	5000	ug/L	01-NOV-09
Magnesium	1	50000	ug/L	01-NOV-09
Manganese	1000	1000	ug/L	01-NOV-09
Nickel	1000	1000	ug/L	01-NOV-09
Potassium	1	50000	ug/L	01-NOV-09
Selenium	1000	500	ug/L	01-NOV-09
Silver	1000	250	ug/L	01-NOV-09
Sodium	1	50000	ug/L	01-NOV-09
Thallium	1000	500	ug/L	01-NOV-09
Uranium	1000	5000	ug/L	01-NOV-09
Vanadium	1000	100	ug/L	01-NOV-09
Zinc	1000	2500	ug/L	01-NOV-09
Aluminum	1	50000	ug/L	01-NOV-09
Antimony	1000	250	ug/L	01-NOV-09

METALS
-12-
Linear Ranges

SDG NO. 10-1303-1

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA1

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	20	500000	ug/L	01-NOV-09
Antimony	20	10000	ug/L	01-NOV-09
Arsenic	20	10000	ug/L	01-NOV-09
Barium	20	15000	ug/L	01-NOV-09
Beryllium	20	3000	ug/L	01-NOV-09
Cadmium	20	10000	ug/L	01-NOV-09
Calcium	20	500000	ug/L	01-NOV-09
Chromium	20	25000	ug/L	01-NOV-09
Cobalt	20	10000	ug/L	01-NOV-09
Copper	20	20000	ug/L	01-NOV-09
Iron	20	500000	ug/L	01-NOV-09
Lead	20	25000	ug/L	01-NOV-09
Magnesium	20	500000	ug/L	01-NOV-09
Manganese	20	10000	ug/L	01-NOV-09
Nickel	20	10000	ug/L	01-NOV-09
Potassium	20	300000	ug/L	01-NOV-09
Selenium	20	10000	ug/L	01-NOV-09
Silver	20	1000	ug/L	01-NOV-09
Sodium	20	500000	ug/L	01-NOV-09
Thallium	20	10000	ug/L	01-NOV-09
Uranium	20	15000	ug/L	01-NOV-09
Vanadium	20	10000	ug/L	01-NOV-09
Zinc	20	15000	ug/L	01-NOV-09

Raw Data

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Analysis Begun

Start Time: 1/29/2010 06:16:09

Plasma On Time: 1/25/2010 05:31:26

Logged In Analyst: optima

Technique: ICP Continuous

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

Sample Information File: C:\pe\optimal\Sample Information\012910.sif

Batch ID:

Results Data Set: 012910

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

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Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 1/29/2010 06:16:09

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc RADIAL	78453.6	78453.6	0.000 %	06:16:54
1	Al 396.153Radial†	-28.6	-28.6	[0.00] µg/L	06:16:54
1	Ca 317.933Radial†	254.4	254.5	[0.00] µg/L	06:17:15
1	Fe 238.204 Radial†	16.3	16.3	[0.00] µg/L	06:17:15
1	K 766.490 Radial†	361.8	361.9	[0.00] µg/L	06:16:54
1	Mg 279.077 IEC†	9.2	9.2	[0.00] µg/L	06:17:15
1	Na 589.592 Radial†	551.3	551.5	[0.00] µg/L	06:16:54
1	Sr 421.552†	632.6	632.8	[0.00] µg/L	06:16:54
1	Sc 361.383	2006976.9	2006976.9	0.0000 %	06:18:16
1	Y 371.029	1268565.6	1268565.6	0.0000 %	06:18:16
1	Ag 328.068†	-98.3	-96.8	[0.00] µg/L	06:18:22
1	As 188.979†	-2.6	-2.5	[0.00] µg/L	06:18:43
1	B 249.677†	368.9	363.3	[0.00] µg/L	06:18:22
1	Ba 233.527†	-25.4	-25.0	[0.00] µg/L	06:18:43
1	Be 313.107†	3819.6	3761.6	[0.00] µg/L	06:18:22
1	Cd 226.502†	-130.4	-128.4	[0.00] µg/L	06:18:43
1	Co 228.616†	-53.2	-52.4	[0.00] µg/L	06:18:43
1	Cr 267.716†	-73.7	-72.6	[0.00] µg/L	06:18:22
1	Cu 324.752†	3914.9	3855.3	[0.00] µg/L	06:18:22
1	Mn 257.610†	-156.1	-153.8	[0.00] µg/L	06:18:43
1	Mo 202.031†	14.6	14.3	[0.00] µg/L	06:18:43
1	Ni 231.604†	338.4	333.3	[0.00] µg/L	06:18:43
1	P 214.914†	218.9	215.6	[0.00] µg/L	06:18:43
1	Pb 220.353†	56.9	56.1	[0.00] µg/L	06:18:43
1	S 181.975 Axial†	23.2	22.9	[0.00] µg/L	06:18:43
1	Sb 206.836†	24.7	24.3	[0.00] µg/L	06:18:43
1	Se 196.026†	10.7	10.5	[0.00] µg/L	06:18:43
1	SiO2†	2371.3	2335.3	[0.00] µg/L	06:18:22
1	Si 251.611†	287.8	283.4	[0.00] µg/L	06:18:43
1	Sn 189.927†	24.8	24.5	[0.00] µg/L	06:18:43
1	Ti 334.940†	786.8	774.9	[0.00] µg/L	06:18:22
1	Tl 190.801†	-23.3	-23.0	[0.00] µg/L	06:18:43
1	U 409.014†	-208.4	-205.2	[0.00] µg/L	06:18:22
1	V 292.402†	-137.7	-135.6	[0.00] µg/L	06:18:22
1	Zn 213.857†	627.6	618.1	[0.00] µg/L	06:18:43
2	Sc RADIAL	78583.3	78583.3	0.000 %	06:17:20
2	Al 396.153Radial†	-47.9	-47.8	[0.00] µg/L	06:17:20
2	Ca 317.933Radial†	238.6	238.3	[0.00] µg/L	06:17:41
2	Fe 238.204 Radial†	15.6	15.6	[0.00] µg/L	06:17:41
2	K 766.490 Radial†	392.9	392.3	[0.00] µg/L	06:17:20
2	Mg 279.077 IEC†	9.9	9.9	[0.00] µg/L	06:17:41
2	Na 589.592 Radial†	568.9	568.2	[0.00] µg/L	06:17:20
2	Sr 421.552†	642.0	641.2	[0.00] µg/L	06:17:20
2	Sc 361.383	1939456.0	1939456.0	0.0000 %	06:18:49
2	Y 371.029	1225701.0	1225701.0	0.0000 %	06:18:49
2	Ag 328.068†	-93.9	-95.7	[0.00] µg/L	06:18:54
2	As 188.979†	-3.4	-3.4	[0.00] µg/L	06:19:15

2	B 249.677†	377.1	384.3	[0.00]	µg/L	06:18:54
2	Ba 233.527†	-21.3	-21.8	[0.00]	µg/L	06:19:15
2	Be 313.107†	3821.8	3894.7	[0.00]	µg/L	06:18:54
2	Cd 226.502†	-124.7	-127.1	[0.00]	µg/L	06:19:15
2	Co 228.616†	-46.5	-47.4	[0.00]	µg/L	06:19:15
2	Cr 267.716†	-115.3	-117.5	[0.00]	µg/L	06:18:54
2	Cu 324.752†	3884.3	3958.4	[0.00]	µg/L	06:18:54
2	Mn 257.610†	-138.9	-141.6	[0.00]	µg/L	06:19:15
2	Mo 202.031†	16.0	16.3	[0.00]	µg/L	06:19:15
2	Ni 231.604†	323.2	329.4	[0.00]	µg/L	06:19:15
2	P 214.914†	215.8	219.9	[0.00]	µg/L	06:19:15
2	Pb 220.353†	61.1	62.2	[0.00]	µg/L	06:19:15
2	S 181.975 Axial†	24.3	24.7	[0.00]	µg/L	06:19:15
2	Sb 206.836†	29.2	29.7	[0.00]	µg/L	06:19:15
2	Se 196.026†	9.6	9.8	[0.00]	µg/L	06:19:15
2	SiO2†	2394.1	2439.7	[0.00]	µg/L	06:18:54
2	Si 251.611†	273.9	279.1	[0.00]	µg/L	06:19:15
2	Sn 189.927†	22.1	22.5	[0.00]	µg/L	06:19:15
2	Ti 334.940†	638.9	651.1	[0.00]	µg/L	06:18:54
2	Tl 190.801†	-26.7	-27.2	[0.00]	µg/L	06:19:15
2	U 409.014†	-217.2	-221.3	[0.00]	µg/L	06:18:54
2	V 292.402†	-119.1	-121.3	[0.00]	µg/L	06:18:54
2	Zn 213.857†	637.6	649.8	[0.00]	µg/L	06:19:15
3	Sc RADIAL	78404.4	78404.4	0.000	%	06:17:46
3	Al 396.153Radial†	-12.0	-12.0	[0.00]	µg/L	06:17:46
3	Ca 317.933Radial†	248.6	248.8	[0.00]	µg/L	06:18:06
3	Fe 238.204 Radial†	17.2	17.2	[0.00]	µg/L	06:18:06
3	K 766.490 Radial†	441.4	441.9	[0.00]	µg/L	06:17:46
3	Mg 279.077 IEC†	5.4	5.4	[0.00]	µg/L	06:18:06
3	Na 589.592 Radial†	540.8	541.4	[0.00]	µg/L	06:17:46
3	Sr 421.552†	627.5	628.1	[0.00]	µg/L	06:17:46
3	Sc 361.383	1982931.6	1982931.6	0.0000	%	06:19:21
3	Y 371.029	1253063.7	1253063.7	0.0000	%	06:19:21
3	Ag 328.068†	-85.6	-85.3	[0.00]	µg/L	06:19:26
3	As 188.979†	-2.2	-2.2	[0.00]	µg/L	06:19:47
3	B 249.677†	363.4	362.2	[0.00]	µg/L	06:19:26
3	Ba 233.527†	-25.2	-25.1	[0.00]	µg/L	06:19:47
3	Be 313.107†	3857.7	3845.1	[0.00]	µg/L	06:19:26
3	Cd 226.502†	-120.7	-120.3	[0.00]	µg/L	06:19:47
3	Co 228.616†	-48.3	-48.1	[0.00]	µg/L	06:19:47
3	Cr 267.716†	-116.7	-116.3	[0.00]	µg/L	06:19:26
3	Cu 324.752†	3898.8	3886.1	[0.00]	µg/L	06:19:26
3	Mn 257.610†	-148.7	-148.2	[0.00]	µg/L	06:19:47
3	Mo 202.031†	7.1	7.1	[0.00]	µg/L	06:19:47
3	Ni 231.604†	332.7	331.6	[0.00]	µg/L	06:19:47
3	P 214.914†	224.8	224.0	[0.00]	µg/L	06:19:47
3	Pb 220.353†	65.4	65.2	[0.00]	µg/L	06:19:47
3	S 181.975 Axial†	21.8	21.8	[0.00]	µg/L	06:19:47
3	Sb 206.836†	18.1	18.0	[0.00]	µg/L	06:19:47
3	Se 196.026†	3.5	3.5	[0.00]	µg/L	06:19:47
3	SiO2†	2401.1	2393.2	[0.00]	µg/L	06:19:26
3	Si 251.611†	285.7	284.7	[0.00]	µg/L	06:19:47
3	Sn 189.927†	23.5	23.4	[0.00]	µg/L	06:19:47
3	Ti 334.940†	687.9	685.6	[0.00]	µg/L	06:19:26
3	Tl 190.801†	-23.5	-23.4	[0.00]	µg/L	06:19:47
3	U 409.014†	-132.6	-132.2	[0.00]	µg/L	06:19:26
3	V 292.402†	-89.3	-89.0	[0.00]	µg/L	06:19:26
3	Zn 213.857†	631.0	628.9	[0.00]	µg/L	06:19:47

Mean Data: S0

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	1976454.8	34223.24	1.73%	0.0000	%
Sc RADIAL	78480.5	92.39	0.12%	0.000	%
Y 371.029	1249110.1	21704.06	1.74%	0.0000	%
Ag 328.068†	-92.6	6.36	6.87%	[0.00]	µg/L
Al 396.153Radial†	-29.5	17.91	60.70%	[0.00]	µg/L
As 188.979†	-2.7	0.62	22.88%	[0.00]	µg/L
B 249.677†	369.9	12.48	3.37%	[0.00]	µg/L
Ba 233.527†	-24.0	1.91	7.97%	[0.00]	µg/L

Be 313.107†	3833.8	67.30	1.76%	[0.00]	µg/L
Ca 317.933Radial†	247.2	8.20	3.32%	[0.00]	µg/L
Cd 226.502†	-125.3	4.33	3.45%	[0.00]	µg/L
Co 228.616†	-49.3	2.70	5.47%	[0.00]	µg/L
Cr 267.716†	-102.1	25.61	25.07%	[0.00]	µg/L
Cu 324.752†	3900.0	52.94	1.36%	[0.00]	µg/L
Fe 238.204 Radial†	16.3	0.81	4.96%	[0.00]	µg/L
K 766.490 Radial†	398.7	40.35	10.12%	[0.00]	µg/L
Mg 279.077 IEC†	8.2	2.39	29.31%	[0.00]	µg/L
Mn 257.610†	-147.8	6.11	4.13%	[0.00]	µg/L
Mo 202.031†	12.6	4.87	38.67%	[0.00]	µg/L
Na 589.592 Radial†	553.7	13.56	2.45%	[0.00]	µg/L
Ni 231.604†	331.4	1.95	0.59%	[0.00]	µg/L
P 214.914†	219.8	4.24	1.93%	[0.00]	µg/L
Pb 220.353†	61.2	4.66	7.61%	[0.00]	µg/L
S 181.975 Axial†	23.1	1.51	6.51%	[0.00]	µg/L
Sb 206.836†	24.0	5.86	24.40%	[0.00]	µg/L
Se 196.026†	7.9	3.83	48.28%	[0.00]	µg/L
SiO2†	2389.4	52.34	2.19%	[0.00]	µg/L
Si 251.611†	282.4	2.94	1.04%	[0.00]	µg/L
Sn 189.927†	23.5	0.99	4.23%	[0.00]	µg/L
Sr 421.552†	634.0	6.63	1.05%	[0.00]	µg/L
Ti 334.940†	703.9	63.85	9.07%	[0.00]	µg/L
Tl 190.801†	-24.5	2.34	9.52%	[0.00]	µg/L
U 409.014†	-186.2	47.51	25.52%	[0.00]	µg/L
V 292.402†	-115.3	23.90	20.72%	[0.00]	µg/L
Zn 213.857†	632.3	16.11	2.55%	[0.00]	µg/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 1/29/2010 06:19:56
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc RADIAL	79236.4	79236.4	101 %		06:20:31
1	K 766.490 Radial†	1984.6	1566.9	[1000] µg/L		06:20:31
1	Sr 421.552†	18556.0	17744.9	[100] µg/L		06:20:31
1	Sc 361.383	1990329.2	1990329.2	100.70 %		06:20:53
1	Y 371.029	1257365.7	1257365.7	100.66 %		06:20:53
1	Ag 328.068†	12034.4	12043.1	[100] µg/L		06:20:58
1	As 188.979†	47.5	49.9	[100] µg/L		06:21:19
1	B 249.677†	2646.7	2258.3	[100] µg/L		06:20:58
1	Ba 233.527†	3932.5	3929.1	[100] µg/L		06:20:58
1	Be 313.107†	165533.1	160545.4	[100] µg/L		06:20:53
1	Cd 226.502†	3842.1	3940.6	[100] µg/L		06:20:58
1	Co 228.616†	1991.3	2026.7	[100] µg/L		06:21:19
1	Cr 267.716†	4922.2	4990.1	[100] µg/L		06:20:58
1	Cu 324.752†	19162.1	15128.5	[100] µg/L		06:20:58
1	Mn 257.610†	30905.3	30837.7	[100] µg/L		06:20:58
1	Mo 202.031†	916.2	897.2	[100] µg/L		06:21:19
1	Ni 231.604†	2158.1	1811.7	[100] µg/L		06:20:58
1	P 214.914†	466.1	243.0	[500] µg/L		06:21:19
1	Pb 220.353†	446.9	382.6	[100] µg/L		06:21:19
1	S 181.975 Axial†	69.4	45.8	[200] µg/L		06:21:19
1	Sb 206.836†	130.4	105.5	[100] µg/L		06:21:19
1	Se 196.026†	83.0	74.5	[100] µg/L		06:21:19
1	SiO2†	8177.4	5731.0	[1069.5] µg/L		06:20:58
1	Si 251.611†	7049.5	6717.9	[500] µg/L		06:20:58
1	Sn 189.927†	226.1	201.0	[100] µg/L		06:21:19
1	Ti 334.940†	45199.3	44180.4	[100] µg/L		06:20:58
1	Tl 190.801†	38.7	62.9	[100] µg/L		06:21:19
1	U 409.014†	1020.6	1199.7	[100] µg/L		06:20:58
1	V 292.402†	9195.2	9246.4	[100] µg/L		06:20:58
1	Zn 213.857†	4611.5	3947.1	[100] µg/L		06:20:58
2	Sc RADIAL	79037.1	79037.1	101 %		06:20:37
2	K 766.490 Radial†	1979.5	1566.8	[1000] µg/L		06:20:37
2	Sr 421.552†	18407.2	17643.5	[100] µg/L		06:20:37
2	Sc 361.383	1986550.7	1986550.7	100.51 %		06:21:25
2	Y 371.029	1255285.0	1255285.0	100.49 %		06:21:25
2	Ag 328.068†	11941.3	11973.2	[100] µg/L		06:21:31
2	As 188.979†	50.0	52.5	[100] µg/L		06:21:51
2	B 249.677†	2617.4	2234.2	[100] µg/L		06:21:31
2	Ba 233.527†	3882.7	3886.9	[100] µg/L		06:21:31
2	Be 313.107†	165391.7	160717.3	[100] µg/L		06:21:25
2	Cd 226.502†	3759.6	3865.8	[100] µg/L		06:21:31
2	Co 228.616†	1983.3	2022.6	[100] µg/L		06:21:51
2	Cr 267.716†	4830.6	4908.2	[100] µg/L		06:21:31
2	Cu 324.752†	19034.1	15037.4	[100] µg/L		06:21:31
2	Mn 257.610†	30541.6	30534.2	[100] µg/L		06:21:31
2	Mo 202.031†	910.6	893.4	[100] µg/L		06:21:51
2	Ni 231.604†	2160.4	1818.0	[100] µg/L		06:21:31
2	P 214.914†	453.9	231.8	[500] µg/L		06:21:51
2	Pb 220.353†	460.9	397.4	[100] µg/L		06:21:51
2	S 181.975 Axial†	61.7	38.3	[200] µg/L		06:21:51
2	Sb 206.836†	133.7	109.0	[100] µg/L		06:21:51
2	Se 196.026†	89.8	81.4	[100] µg/L		06:21:51
2	SiO2†	8088.6	5658.0	[1069.5] µg/L		06:21:31
2	Si 251.611†	6987.7	6669.7	[500] µg/L		06:21:31
2	Sn 189.927†	220.7	196.2	[100] µg/L		06:21:51
2	Ti 334.940†	44724.3	43793.2	[100] µg/L		06:21:31
2	Tl 190.801†	46.8	71.1	[100] µg/L		06:21:51
2	U 409.014†	1014.9	1195.9	[100] µg/L		06:21:31
2	V 292.402†	9034.2	9103.6	[100] µg/L		06:21:31

2	Zn 213.857†	4608.4	3952.8	[100] µg/L	06:21:31
3	Sc RADIAL	78912.9	78912.9	101 %	06:20:42
3	K 766.490 Radial†	1957.6	1548.1	[1000] µg/L	06:20:42
3	Sr 421.552†	18504.4	17768.9	[100] µg/L	06:20:42
3	Sc 361.383	1995586.1	1995586.1	100.97 %	06:21:57
3	Y 371.029	1260364.4	1260364.4	100.90 %	06:21:57
3	Ag 328.068†	11896.4	11874.9	[100] µg/L	06:22:03
3	As 188.979†	52.9	55.1	[100] µg/L	06:22:23
3	B 249.677†	2623.7	2228.6	[100] µg/L	06:22:03
3	Ba 233.527†	3892.3	3878.9	[100] µg/L	06:22:03
3	Be 313.107†	164759.1	159345.8	[100] µg/L	06:21:57
3	Cd 226.502†	3753.1	3842.4	[100] µg/L	06:22:03
3	Co 228.616†	1987.9	2018.1	[100] µg/L	06:22:23
3	Cr 267.716†	4833.6	4889.4	[100] µg/L	06:22:03
3	Cu 324.752†	19014.9	14932.7	[100] µg/L	06:22:03
3	Mn 257.610†	30577.7	30432.4	[100] µg/L	06:22:03
3	Mo 202.031†	910.3	889.0	[100] µg/L	06:22:23
3	Ni 231.604†	2172.5	1820.2	[100] µg/L	06:22:03
3	P 214.914†	462.5	238.2	[500] µg/L	06:22:23
3	Pb 220.353†	455.9	390.3	[100] µg/L	06:22:23
3	S 181.975 Axial†	66.1	42.4	[200] µg/L	06:22:23
3	Sb 206.836†	123.3	98.1	[100] µg/L	06:22:23
3	Se 196.026†	78.0	69.3	[100] µg/L	06:22:23
3	SiO2†	8090.8	5623.8	[1069.5] µg/L	06:22:03
3	Si 251.611†	6996.2	6646.7	[500] µg/L	06:22:03
3	Sn 189.927†	224.9	199.3	[100] µg/L	06:22:23
3	Ti 334.940†	44728.6	43596.0	[100] µg/L	06:22:03
3	Tl 190.801†	42.1	66.2	[100] µg/L	06:22:23
3	U 409.014†	1049.9	1226.1	[100] µg/L	06:22:03
3	V 292.402†	8986.4	9015.6	[100] µg/L	06:22:03
3	Zn 213.857†	4577.8	3901.6	[100] µg/L	06:22:03

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1990822.0	4537.79	0.23%	100.73	%
Sc RADIAL	79062.1	163.17	0.21%	101	%
Y 371.029	1257671.7	2553.49	0.20%	100.69	%
Ag 328.068†	11963.7	84.50	0.71%	[100]	µg/L
As 188.979†	52.5	2.64	5.03%	[100]	µg/L
B 249.677†	2240.4	15.76	0.70%	[100]	µg/L
Ba 233.527†	3898.3	26.94	0.69%	[100]	µg/L
Be 313.107†	160202.9	747.18	0.47%	[100]	µg/L
Cd 226.502†	3882.9	51.30	1.32%	[100]	µg/L
Co 228.616†	2022.5	4.30	0.21%	[100]	µg/L
Cr 267.716†	4929.2	53.53	1.09%	[100]	µg/L
Cu 324.752†	15032.9	97.99	0.65%	[100]	µg/L
K 766.490 Radial†	1560.6	10.82	0.69%	[1000]	µg/L
Mn 257.610†	30601.5	210.85	0.69%	[100]	µg/L
Mo 202.031†	893.2	4.10	0.46%	[100]	µg/L
Ni 231.604†	1816.7	4.44	0.24%	[100]	µg/L
P 214.914†	237.7	5.63	2.37%	[500]	µg/L
Pb 220.353†	390.1	7.43	1.90%	[100]	µg/L
S 181.975 Axial†	42.1	3.76	8.91%	[200]	µg/L
Sb 206.836†	104.2	5.56	5.33%	[100]	µg/L
Se 196.026†	75.1	6.07	8.09%	[100]	µg/L
SiO2†	5671.0	54.74	0.97%	[1069.5]	µg/L
Si 251.611†	6678.1	36.31	0.54%	[500]	µg/L
Sn 189.927†	198.8	2.46	1.24%	[100]	µg/L
Sr 421.552†	17719.1	66.58	0.38%	[100]	µg/L
Ti 334.940†	43856.5	297.30	0.68%	[100]	µg/L
Tl 190.801†	66.8	4.13	6.18%	[100]	µg/L
U 409.014†	1207.2	16.42	1.36%	[100]	µg/L
V 292.402†	9121.8	116.50	1.28%	[100]	µg/L
Zn 213.857†	3933.8	28.03	0.71%	[100]	µg/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 1/29/2010 06:22:33
 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	79260.3	79260.3	101 %	06:23:05
1	Al 396.153Radial†	7595.8	7550.6	[5000] µg/L	06:23:05
1	Ca 317.933Radial†	7090.2	6773.2	[5000] µg/L	06:23:05
1	K 766.490 Radial†	8406.1	7924.7	[5000] µg/L	06:23:05
1	Mg 279.077 IEC†	492.0	479.0	[5000] µg/L	06:23:26
1	Sr 421.552†	85623.8	84147.2	[500] µg/L	06:23:05
1	Sc 361.383	1988873.8	1988873.8	100.63 %	06:24:29
1	Y 371.029	1252566.3	1252566.3	100.28 %	06:24:29
1	Ag 328.068†	57050.4	56786.7	[500] µg/L	06:24:34
1	As 188.979†	241.4	242.6	[500] µg/L	06:24:55
1	B 249.677†	11152.2	10712.6	[500] µg/L	06:24:34
1	Ba 233.527†	18598.2	18506.0	[500] µg/L	06:24:34
1	Be 313.107†	771283.5	762633.7	[500] µg/L	06:24:29
1	Cd 226.502†	18252.7	18264.0	[500] µg/L	06:24:34
1	Co 228.616†	9815.6	9803.7	[500] µg/L	06:24:34
1	Cr 267.716†	23336.2	23292.6	[500] µg/L	06:24:34
1	Cu 324.752†	74989.9	70621.7	[500] µg/L	06:24:34
1	Mn 257.610†	144696.5	143940.8	[500] µg/L	06:24:34
1	Mo 202.031†	4300.7	4261.2	[500] µg/L	06:24:55
1	Ni 231.604†	8943.4	8556.2	[500] µg/L	06:24:34
1	P 214.914†	1370.9	1142.5	[2500] µg/L	06:24:55
1	Pb 220.353†	1947.8	1874.4	[500] µg/L	06:24:55
1	S 181.975 Axial†	212.1	187.6	[1000] µg/L	06:24:55
1	Sb 206.836†	507.9	480.7	[500] µg/L	06:24:55
1	Se 196.026†	361.6	351.4	[500] µg/L	06:24:55
1	SiO2†	29660.5	27085.9	[5347.5] µg/L	06:24:34
1	Si 251.611†	32390.3	31905.6	[2500] µg/L	06:24:34
1	Sn 189.927†	976.1	946.6	[500] µg/L	06:24:55
1	Ti 334.940†	213831.8	211792.7	[500] µg/L	06:24:29
1	Tl 190.801†	288.1	310.8	[500] µg/L	06:24:55
1	U 409.014†	5376.8	5529.5	[500] µg/L	06:24:34
1	V 292.402†	43367.2	43211.7	[500] µg/L	06:24:34
1	Zn 213.857†	19243.9	18491.5	[500] µg/L	06:24:34
2	Sc RADIAL	79242.6	79242.6	101 %	06:23:31
2	Al 396.153Radial†	7589.8	7546.3	[5000] µg/L	06:23:31
2	Ca 317.933Radial†	7103.7	6788.2	[5000] µg/L	06:23:31
2	K 766.490 Radial†	8366.1	7887.0	[5000] µg/L	06:23:31
2	Mg 279.077 IEC†	498.8	485.9	[5000] µg/L	06:23:52
2	Sr 421.552†	85475.1	84018.9	[500] µg/L	06:23:31
2	Sc 361.383	2001726.7	2001726.7	101.28 %	06:25:02
2	Y 371.029	1260859.9	1260859.9	100.94 %	06:25:02
2	Ag 328.068†	56354.2	55735.3	[500] µg/L	06:25:07
2	As 188.979†	240.2	239.8	[500] µg/L	06:25:28
2	B 249.677†	11056.9	10547.3	[500] µg/L	06:25:07
2	Ba 233.527†	18377.0	18168.9	[500] µg/L	06:25:07
2	Be 313.107†	757902.9	744500.6	[500] µg/L	06:25:02
2	Cd 226.502†	18059.3	17956.6	[500] µg/L	06:25:07
2	Co 228.616†	9675.3	9602.4	[500] µg/L	06:25:07
2	Cr 267.716†	23017.8	22829.4	[500] µg/L	06:25:07
2	Cu 324.752†	74220.6	69383.6	[500] µg/L	06:25:07
2	Mn 257.610†	142920.4	141263.9	[500] µg/L	06:25:07
2	Mo 202.031†	4222.2	4156.3	[500] µg/L	06:25:28
2	Ni 231.604†	8885.1	8441.5	[500] µg/L	06:25:07
2	P 214.914†	1361.0	1123.9	[2500] µg/L	06:25:28
2	Pb 220.353†	1916.2	1830.8	[500] µg/L	06:25:28
2	S 181.975 Axial†	207.6	181.9	[1000] µg/L	06:25:28
2	Sb 206.836†	515.1	484.6	[500] µg/L	06:25:28
2	Se 196.026†	357.7	345.2	[500] µg/L	06:25:28
2	SiO2†	29361.6	26601.6	[5347.5] µg/L	06:25:07

2	Si 251.611†	31999.0	31312.6	[2500]	µg/L	06:25:07
2	Sn 189.927†	959.9	924.3	[500]	µg/L	06:25:28
2	Ti 334.940†	210147.7	206790.7	[500]	µg/L	06:25:02
2	Tl 190.801†	285.6	306.6	[500]	µg/L	06:25:28
2	U 409.014†	5323.2	5442.2	[500]	µg/L	06:25:07
2	V 292.402†	42784.9	42360.1	[500]	µg/L	06:25:07
2	Zn 213.857†	19038.7	18166.1	[500]	µg/L	06:25:07
3	Sc RADIAL	79210.5	79210.5	101	%	06:23:57
3	Al 396.153Radial†	7586.0	7545.5	[5000]	µg/L	06:23:57
3	Ca 317.933Radial†	7095.8	6783.3	[5000]	µg/L	06:23:57
3	K 766.490 Radial†	8305.4	7830.2	[5000]	µg/L	06:23:57
3	Mg 279.077 IEC†	494.4	481.7	[5000]	µg/L	06:24:18
3	Sr 421.552†	85515.6	84093.4	[500]	µg/L	06:23:57
3	Sc 361.383	2014150.7	2014150.7	101.91	%	06:25:34
3	Y 371.029	1268615.6	1268615.6	101.56	%	06:25:34
3	Ag 328.068†	53430.5	52523.1	[500]	µg/L	06:25:40
3	As 188.979†	203.6	202.5	[500]	µg/L	06:26:01
3	B 249.677†	10417.9	9853.0	[500]	µg/L	06:25:40
3	Ba 233.527†	16882.3	16590.3	[500]	µg/L	06:25:40
3	Be 313.107†	724303.9	706914.4	[500]	µg/L	06:25:34
3	Cd 226.502†	16532.1	16348.0	[500]	µg/L	06:25:40
3	Co 228.616†	8787.2	8672.0	[500]	µg/L	06:25:40
3	Cr 267.716†	20475.4	20194.4	[500]	µg/L	06:25:40
3	Cu 324.752†	68035.6	62862.4	[500]	µg/L	06:25:40
3	Mn 257.610†	129904.1	127620.7	[500]	µg/L	06:25:40
3	Mo 202.031†	3601.8	3521.8	[500]	µg/L	06:26:01
3	Ni 231.604†	8093.2	7610.3	[500]	µg/L	06:25:40
3	P 214.914†	1203.9	961.5	[2500]	µg/L	06:26:01
3	Pb 220.353†	1711.1	1617.9	[500]	µg/L	06:26:01
3	S 181.975 Axial†	194.1	167.4	[1000]	µg/L	06:26:01
3	Sb 206.836†	448.2	415.8	[500]	µg/L	06:26:01
3	Se 196.026†	311.3	297.5	[500]	µg/L	06:26:01
3	SiO2†	27493.1	24589.1	[5347.5]	µg/L	06:25:40
3	Si 251.611†	29757.6	28918.2	[2500]	µg/L	06:25:40
3	Sn 189.927†	805.9	767.4	[500]	µg/L	06:26:01
3	Ti 334.940†	199664.7	195224.0	[500]	µg/L	06:25:34
3	Tl 190.801†	262.5	282.1	[500]	µg/L	06:26:01
3	U 409.014†	4825.0	4920.9	[500]	µg/L	06:25:40
3	V 292.402†	38869.8	38257.6	[500]	µg/L	06:25:40
3	Zn 213.857†	17442.2	16483.5	[500]	µg/L	06:25:40

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Sc 361.383	2001583.8	12639.07	0.63%	101.27	%
Sc RADIAL	79237.8	25.26	0.03%	101	%
Y 371.029	1260680.6	8026.16	0.64%	100.93	%
Ag 328.068†	55015.1	2221.20	4.04%	[500]	µg/L
Al 396.153Radial†	7547.5	2.72	0.04%	[5000]	µg/L
As 188.979†	228.3	22.38	9.80%	[500]	µg/L
B 249.677†	10371.0	456.14	4.40%	[500]	µg/L
Ba 233.527†	17755.1	1022.70	5.76%	[500]	µg/L
Be 313.107†	738016.2	28419.96	3.85%	[500]	µg/L
Ca 317.933Radial†	6781.5	7.61	0.11%	[5000]	µg/L
Cd 226.502†	17522.9	1029.06	5.87%	[500]	µg/L
Co 228.616†	9359.4	603.69	6.45%	[500]	µg/L
Cr 267.716†	22105.5	1671.17	7.56%	[500]	µg/L
Cu 324.752†	67622.6	4168.69	6.16%	[500]	µg/L
K 766.490 Radial†	7880.6	47.56	0.60%	[5000]	µg/L
Mg 279.077 IEC†	482.2	3.48	0.72%	[5000]	µg/L
Mn 257.610†	137608.5	8752.58	6.36%	[500]	µg/L
Mo 202.031†	3979.8	400.08	10.05%	[500]	µg/L
Ni 231.604†	8202.6	516.18	6.29%	[500]	µg/L
P 214.914†	1076.0	99.57	9.25%	[2500]	µg/L
Pb 220.353†	1774.4	137.27	7.74%	[500]	µg/L
S 181.975 Axial†	178.9	10.42	5.82%	[1000]	µg/L
Sb 206.836†	460.4	38.65	8.40%	[500]	µg/L
Se 196.026†	331.4	29.49	8.90%	[500]	µg/L
SiO2†	26092.2	1324.03	5.07%	[5347.5]	µg/L
Si 251.611†	30712.1	1581.63	5.15%	[2500]	µg/L

Sn 189.927†	879.4	97.67	11.11%	[500]	µg/L
Sr 421.552†	84086.5	64.43	0.08%	[500]	µg/L
Ti 334.940†	204602.5	8498.33	4.15%	[500]	µg/L
Tl 190.801†	299.8	15.50	5.17%	[500]	µg/L
U 409.014†	5297.5	329.06	6.21%	[500]	µg/L
V 292.402†	41276.5	2648.86	6.42%	[500]	µg/L
Zn 213.857†	17713.7	1077.77	6.08%	[500]	µg/L

Sequence No.: 4

Sample ID: SCAL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 1/29/2010 06:26:11

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc RADIAL	80422.4	80422.4	102	%	06:26:43
1	Al 396.153Radial†	15443.2	15099.8	[10000]	µg/L	06:26:43
1	Ca 317.933Radial†	13844.6	13263.1	[10000]	µg/L	06:27:04
1	Fe 238.204 Radial†	770.1	735.2	[10000]	µg/L	06:27:04
1	K 766.490 Radial†	16743.3	15940.3	[10000]	µg/L	06:26:43
1	Mg 279.077 IEC†	989.7	957.7	[10000]	µg/L	06:27:04
1	Na 589.592 Radial†	38174.8	36699.3	[10000]	µg/L	06:26:43
1	Sr 421.552†	172238.8	167445.7	[1000]	µg/L	06:26:43
1	Sc 361.383	2025538.1	2025538.1	102.48	%	06:28:08
1	Y 371.029	1274375.3	1274375.3	102.02	%	06:28:08
1	Ag 328.068†	114457.3	111776.3	[1000]	µg/L	06:28:13
1	As 188.979†	489.4	480.3	[1000]	µg/L	06:28:34
1	B 249.677†	22326.6	21415.6	[1000]	µg/L	06:28:13
1	Ba 233.527†	37399.8	36517.4	[1000]	µg/L	06:28:13
1	Be 313.107†	1554768.1	1513258.9	[1000]	µg/L	06:28:08
1	Cd 226.502†	36797.7	36031.3	[1000]	µg/L	06:28:13
1	Co 228.616†	19631.9	19205.5	[1000]	µg/L	06:28:13
1	Cr 267.716†	47065.9	46027.6	[1000]	µg/L	06:28:13
1	Cu 324.752†	146844.3	139385.9	[1000]	µg/L	06:28:13
1	Mn 257.610†	295323.0	288314.5	[1000]	µg/L	06:28:08
1	Mo 202.031†	8742.7	8518.3	[1000]	µg/L	06:28:13
1	Ni 231.604†	17650.7	16891.6	[1000]	µg/L	06:28:13
1	P 214.914†	2551.9	2270.3	[5000]	µg/L	06:28:34
1	Pb 220.353†	3878.6	3723.4	[1000]	µg/L	06:28:34
1	S 181.975 Axial†	405.9	372.9	[2000]	µg/L	06:28:34
1	Sb 206.836†	1043.0	993.7	[1000]	µg/L	06:28:34
1	Se 196.026†	717.2	691.9	[1000]	µg/L	06:28:34
1	SiO2†	56939.5	53170.4	[10695]	µg/L	06:28:13
1	Si 251.611†	64538.5	62692.1	[5000]	µg/L	06:28:13
1	Sn 189.927†	1956.0	1885.1	[1000]	µg/L	06:28:34
1	Ti 334.940†	433187.5	421986.6	[1000]	µg/L	06:28:08
1	Tl 190.801†	609.0	618.8	[1000]	µg/L	06:28:34
1	U 409.014†	11136.7	11053.1	[1000]	µg/L	06:28:13
1	V 292.402†	87279.2	85279.5	[1000]	µg/L	06:28:13
1	Zn 213.857†	37892.2	36341.8	[1000]	µg/L	06:28:13
2	Sc RADIAL	80394.1	80394.1	102	%	06:27:09
2	Al 396.153Radial†	15388.6	15051.8	[10000]	µg/L	06:27:09
2	Ca 317.933Radial†	13761.5	13186.7	[10000]	µg/L	06:27:30
2	Fe 238.204 Radial†	766.1	731.5	[10000]	µg/L	06:27:30
2	K 766.490 Radial†	16645.7	15850.8	[10000]	µg/L	06:27:09
2	Mg 279.077 IEC†	988.8	957.1	[10000]	µg/L	06:27:30
2	Na 589.592 Radial†	37940.9	36484.1	[10000]	µg/L	06:27:09
2	Sr 421.552†	171452.8	166737.7	[1000]	µg/L	06:27:09
2	Sc 361.383	2005963.8	2005963.8	101.49	%	06:28:41
2	Y 371.029	1262095.6	1262095.6	101.04	%	06:28:41
2	Ag 328.068†	114499.9	112908.1	[1000]	µg/L	06:28:46
2	As 188.979†	484.4	480.0	[1000]	µg/L	06:29:07
2	B 249.677†	22337.7	21639.1	[1000]	µg/L	06:28:46
2	Ba 233.527†	37326.1	36801.0	[1000]	µg/L	06:28:46
2	Be 313.107†	1535483.2	1509061.5	[1000]	µg/L	06:28:41
2	Cd 226.502†	36703.6	36288.9	[1000]	µg/L	06:28:46
2	Co 228.616†	19648.8	19409.1	[1000]	µg/L	06:28:46
2	Cr 267.716†	47002.7	46413.4	[1000]	µg/L	06:28:46
2	Cu 324.752†	146724.2	140665.8	[1000]	µg/L	06:28:46
2	Mn 257.610†	291677.7	287534.8	[1000]	µg/L	06:28:41
2	Mo 202.031†	8720.7	8579.9	[1000]	µg/L	06:28:46
2	Ni 231.604†	17632.0	17041.2	[1000]	µg/L	06:28:46
2	P 214.914†	2525.0	2268.0	[5000]	µg/L	06:29:07
2	Pb 220.353†	3839.4	3721.8	[1000]	µg/L	06:29:07

2	S 181.975 Axial†	398.2	369.2	[2000]	µg/L	06:29:07
2	Sb 206.836†	1033.6	994.4	[1000]	µg/L	06:29:07
2	Se 196.026†	706.1	687.8	[1000]	µg/L	06:29:07
2	SiO2†	56849.3	53623.6	[10695]	µg/L	06:28:46
2	Si 251.611†	64443.7	63213.2	[5000]	µg/L	06:28:46
2	Sn 189.927†	1923.5	1871.8	[1000]	µg/L	06:29:07
2	Ti 334.940†	428029.5	421029.1	[1000]	µg/L	06:28:41
2	Tl 190.801†	607.5	623.1	[1000]	µg/L	06:29:07
2	U 409.014†	11121.9	11144.5	[1000]	µg/L	06:28:46
2	V 292.402†	87192.6	86025.2	[1000]	µg/L	06:28:46
2	Zn 213.857†	37875.2	36685.8	[1000]	µg/L	06:28:46
3	Sc RADIAL	80380.2	80380.2	102	%	06:27:35
3	Al 396.153Radial†	15313.9	14981.5	[10000]	µg/L	06:27:35
3	Ca 317.933Radial†	13841.7	13267.4	[10000]	µg/L	06:27:56
3	Fe 238.204 Radial†	772.1	737.5	[10000]	µg/L	06:27:56
3	K 766.490 Radial†	16625.3	15833.7	[10000]	µg/L	06:27:35
3	Mg 279.077 IEC†	991.4	959.9	[10000]	µg/L	06:27:56
3	Na 589.592 Radial†	37822.8	36375.3	[10000]	µg/L	06:27:35
3	Sr 421.552†	170950.2	166275.9	[1000]	µg/L	06:27:35
3	Sc 361.383	2007251.3	2007251.3	101.56	%	06:29:14
3	Y 371.029	1262998.2	1262998.2	101.11	%	06:29:14
3	Ag 328.068†	109571.5	107983.0	[1000]	µg/L	06:29:20
3	As 188.979†	419.4	415.7	[1000]	µg/L	06:29:40
3	B 249.677†	21215.0	20519.6	[1000]	µg/L	06:29:20
3	Ba 233.527†	34713.2	34204.5	[1000]	µg/L	06:29:20
3	Be 313.107†	1466974.8	1440633.8	[1000]	µg/L	06:29:14
3	Cd 226.502†	34039.6	33642.7	[1000]	µg/L	06:29:20
3	Co 228.616†	18023.7	17796.5	[1000]	µg/L	06:29:20
3	Cr 267.716†	42166.7	41621.9	[1000]	µg/L	06:29:20
3	Cu 324.752†	135506.4	129527.4	[1000]	µg/L	06:29:20
3	Mn 257.610†	279120.1	274985.5	[1000]	µg/L	06:29:14
3	Mo 202.031†	8001.7	7866.3	[1000]	µg/L	06:29:20
3	Ni 231.604†	16228.0	15647.6	[1000]	µg/L	06:29:20
3	P 214.914†	2231.9	1977.8	[5000]	µg/L	06:29:40
3	Pb 220.353†	3363.6	3250.9	[1000]	µg/L	06:29:40
3	S 181.975 Axial†	365.4	336.6	[2000]	µg/L	06:29:40
3	Sb 206.836†	901.8	863.9	[1000]	µg/L	06:29:40
3	Se 196.026†	633.1	615.4	[1000]	µg/L	06:29:40
3	SiO2†	53579.0	50367.6	[10695]	µg/L	06:29:20
3	Si 251.611†	60554.5	59343.0	[5000]	µg/L	06:29:20
3	Sn 189.927†	1618.7	1570.4	[1000]	µg/L	06:29:40
3	Ti 334.940†	407594.2	400636.8	[1000]	µg/L	06:29:14
3	Tl 190.801†	542.0	558.2	[1000]	µg/L	06:29:40
3	U 409.014†	10131.9	10162.6	[1000]	µg/L	06:29:20
3	V 292.402†	79295.9	78194.6	[1000]	µg/L	06:29:20
3	Zn 213.857†	34859.8	33692.7	[1000]	µg/L	06:29:20

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	2012917.7	10948.46	0.54%	101.84 %
Sc RADIAL	80398.9	21.55	0.03%	102 %
Y 371.029	1266489.7	6844.03	0.54%	101.39 %
Ag 328.068†	110889.1	2579.65	2.33%	[1000] µg/L
Al 396.153Radial†	15044.4	59.49	0.40%	[10000] µg/L
As 188.979†	458.6	37.21	8.11%	[1000] µg/L
B 249.677†	21191.5	592.46	2.80%	[1000] µg/L
Ba 233.527†	35841.0	1424.28	3.97%	[1000] µg/L
Be 313.107†	1487651.4	40772.47	2.74%	[1000] µg/L
Ca 317.933Radial†	13239.1	45.37	0.34%	[10000] µg/L
Cd 226.502†	35321.0	1459.14	4.13%	[1000] µg/L
Co 228.616†	18803.7	878.16	4.67%	[1000] µg/L
Cr 267.716†	44687.6	2662.01	5.96%	[1000] µg/L
Cu 324.752†	136526.4	6094.98	4.46%	[1000] µg/L
Fe 238.204 Radial†	734.7	3.00	0.41%	[10000] µg/L
K 766.490 Radial†	15874.9	57.28	0.36%	[10000] µg/L
Mg 279.077 IEC†	958.2	1.46	0.15%	[10000] µg/L
Mn 257.610†	283611.6	7480.60	2.64%	[1000] µg/L
Mo 202.031†	8321.5	395.38	4.75%	[1000] µg/L
Na 589.592 Radial†	36519.6	164.92	0.45%	[10000] µg/L

Ni 231.604†	16526.8	765.08	4.63%	[1000]	µg/L
P 214.914†	2172.0	168.22	7.75%	[5000]	µg/L
Pb 220.353†	3565.4	272.36	7.64%	[1000]	µg/L
S 181.975 Axial†	359.6	19.96	5.55%	[2000]	µg/L
Sb 206.836†	950.7	75.14	7.90%	[1000]	µg/L
Se 196.026†	665.0	43.02	6.47%	[1000]	µg/L
SiO2†	52387.2	1763.65	3.37%	[10695]	µg/L
Si 251.611†	61749.5	2100.29	3.40%	[5000]	µg/L
Sn 189.927†	1775.8	177.97	10.02%	[1000]	µg/L
Sr 421.552†	166819.8	589.18	0.35%	[1000]	µg/L
Ti 334.940†	414550.8	12059.39	2.91%	[1000]	µg/L
Tl 190.801†	600.0	36.24	6.04%	[1000]	µg/L
U 409.014†	10786.7	542.42	5.03%	[1000]	µg/L
V 292.402†	83166.5	4321.84	5.20%	[1000]	µg/L
Zn 213.857†	35573.4	1637.80	4.60%	[1000]	µg/L

Sequence No.: 5

Sample ID: S10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 1/29/2010 06:29:49

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc RADIAL	79716.7	79716.7	102 %		06:30:22
1	Al 396.153Radial†	78496.7	77308.9	[50000] µg/L		06:30:22
1	Ca 317.933Radial†	70941.5	69594.2	[50000] µg/L		06:30:22
1	Fe 238.204 Radial†	1575.0	1534.3	[20000] µg/L		06:30:42
1	Mg 279.077 IEC†	5020.7	4934.7	[50000] µg/L		06:30:42
1	Na 589.592 Radial†	77315.4	75562.8	[20000] µg/L		06:30:22
1	Sc 361.383	2008171.4	2008171.4	101.60 %		06:31:45
1	Y 371.029	1255104.6	1255104.6	100.48 %		06:31:45
2	Sc RADIAL	79442.6	79442.6	101 %		06:30:47
2	Al 396.153Radial†	78081.7	77165.6	[50000] µg/L		06:30:47
2	Ca 317.933Radial†	70417.1	69317.1	[50000] µg/L		06:30:47
2	Fe 238.204 Radial†	1578.8	1543.3	[20000] µg/L		06:31:08
2	Mg 279.077 IEC†	4998.0	4929.3	[50000] µg/L		06:31:08
2	Na 589.592 Radial†	77062.9	75575.9	[20000] µg/L		06:30:47
2	Sc 361.383	2006995.9	2006995.9	101.55 %		06:31:53
2	Y 371.029	1254366.8	1254366.8	100.42 %		06:31:53
3	Sc RADIAL	79515.0	79515.0	101 %		06:31:13
3	Al 396.153Radial†	78405.5	77414.9	[50000] µg/L		06:31:13
3	Ca 317.933Radial†	70864.1	69695.0	[50000] µg/L		06:31:13
3	Fe 238.204 Radial†	1520.3	1484.2	[20000] µg/L		06:31:34
3	Mg 279.077 IEC†	4834.2	4763.1	[50000] µg/L		06:31:34
3	Na 589.592 Radial†	77349.0	75788.9	[20000] µg/L		06:31:13
3	Sc 361.383	1992141.0	1992141.0	100.79 %		06:32:01
3	Y 371.029	1245087.6	1245087.6	99.678 %		06:32:01

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib. Units
Sc 361.383	2002436.1	8935.19	0.45%	101.31 %	
Sc RADIAL	79558.1	142.05	0.18%	101 %	
Y 371.029	1251519.7	5582.56	0.45%	100.19 %	
Al 396.153Radial†	77296.4	125.09	0.16%	[50000] µg/L	
Ca 317.933Radial†	69535.4	195.64	0.28%	[50000] µg/L	
Fe 238.204 Radial†	1520.6	31.85	2.09%	[20000] µg/L	
Mg 279.077 IEC†	4875.7	97.55	2.00%	[50000] µg/L	
Na 589.592 Radial†	75642.5	126.95	0.17%	[20000] µg/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	110.8	0.00000	0.999970	
Al 396.153Radial	3	Lin Thru 0	0.0	1.544	0.00000	0.999984	
As 188.979	3	Lin Thru 0	0.0	0.4588	0.00000	0.999916	
B 249.677	3	Lin Thru 0	0.0	21.11	0.00000	0.999949	
Ba 233.527	3	Lin Thru 0	0.0	35.80	0.00000	0.999962	
Be 313.107	3	Lin Thru 0	0.0	1486	0.00000	0.999971	
Ca 317.933Radial	3	Lin Thru 0	0.0	1.388	0.00000	0.999955	
Cd 226.502	3	Lin Thru 0	0.0	35.29	0.00000	0.999955	
Co 228.616	3	Lin Thru 0	0.0	18.80	0.00000	0.999975	
Cr 267.716	3	Lin Thru 0	0.0	44.63	0.00000	0.999947	
Cu 324.752	3	Lin Thru 0	0.0	136.4	0.00000	0.999951	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0755	0.00000	0.999908	
K 766.490 Radial	3	Lin Thru 0	0.0	1.585	0.00000	0.999995	
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0974	0.00000	0.999994	
Mn 257.610	3	Lin Thru 0	0.0	282.1	0.00000	0.999901	
Mo 202.031	3	Lin Thru 0	0.0	8.255	0.00000	0.999820	
Na 589.592 Radia	2	Lin Thru 0	0.0	3.756	0.00000	0.999904	

Ni 231.604	3	Lin Thru 0	0.0	16.52	0.00000	0.999956
P 214.914	3	Lin Thru 0	0.0	0.4339	0.00000	0.999957
Pb 220.353	3	Lin Thru 0	0.0	3.565	0.00000	0.999963
S 181.975 Axial	3	Lin Thru 0	0.0	0.1799	0.00000	0.999881
Sb 206.836	3	Lin Thru 0	0.0	0.9455	0.00000	0.999879
Se 196.026	3	Lin Thru 0	0.0	0.6653	0.00000	0.999933
SiO2	3	Lin Thru 0	0.0	4.898	0.00000	0.999971
Si 251.611	3	Lin Thru 0	0.0	12.34	0.00000	0.999971
Sn 189.927	3	Lin Thru 0	0.0	1.774	0.00000	0.999934
Sr 421.552	3	Lin Thru 0	0.0	167.2	0.00000	0.999980
Ti 334.940	3	Lin Thru 0	0.0	413.7	0.00000	0.999972
Tl 190.801	3	Lin Thru 0	0.0	0.6005	0.00000	0.999950
U 409.014	3	Lin Thru 0	0.0	10.76	0.00000	0.999915
V 292.402	3	Lin Thru 0	0.0	83.11	0.00000	0.999958
Zn 213.857	3	Lin Thru 0	0.0	35.57	0.00000	0.999954

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 1/29/2010 06:32:11

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	79928.9	79928.9	102 %		06:32:44
1	Al 396.153Radial†	7863.1	7750.1	5008.5 µg/L	5008.5 ppb	06:32:44
1	Ca 317.933Radial†	7191.5	6814.0	4909.8 µg/L	4909.8 ppb	06:32:44
1	Fe 238.204 Radial†	403.4	379.7	5039.9 µg/L	5039.9 ppb	06:33:04
1	K 766.490 Radial†	4314.2	3837.3	2421.0 µg/L	2421.0 ppb	06:32:44
1	Mg 279.077 IEC†	477.4	460.6	4730.4 µg/L	4730.4 ppb	06:33:04
1	Na 589.592 Radial†	9870.7	9138.1	2432.9 µg/L	2432.9 ppb	06:32:44
1	Sr 421.552†	91682.7	89387.2	534.71 µg/L	534.71 ppb	06:32:44
1	Sc 361.383	1987278.7	1987278.7	100.55 %		06:34:08
1	Y 371.029	1252104.6	1252104.6	100.24 %		06:34:08
1	Ag 328.068†	28322.5	28260.8	258.77 µg/L	258.77 ppb	06:34:13
1	As 188.979†	238.7	240.1	522.34 µg/L	522.34 ppb	06:34:34
1	B 249.677†	11991.7	11556.5	545.61 µg/L	545.61 ppb	06:34:13
1	Ba 233.527†	19458.7	19376.6	542.16 µg/L	542.16 ppb	06:34:13
1	Be 313.107†	389930.5	383972.9	258.16 µg/L	258.16 ppb	06:34:08
1	Cd 226.502†	18926.4	18948.6	536.81 µg/L	536.81 ppb	06:34:13
1	Co 228.616†	10250.1	10243.6	544.39 µg/L	544.39 ppb	06:34:13
1	Cr 267.716†	23613.0	23586.5	528.82 µg/L	528.82 ppb	06:34:13
1	Cu 324.752†	78591.2	74263.2	545.22 µg/L	545.22 ppb	06:34:13
1	Mn 257.610†	141474.8	140852.0	499.74 µg/L	499.74 ppb	06:34:13
1	Mo 202.031†	4459.9	4423.0	536.02 µg/L	536.02 ppb	06:34:34
1	Ni 231.604†	8653.6	8275.0	500.46 µg/L	500.46 ppb	06:34:13
1	P 214.914†	1442.0	1214.3	2746.4 µg/L	2746.4 ppb	06:34:34
1	Pb 220.353†	2032.6	1960.4	550.13 µg/L	550.13 ppb	06:34:34
1	S 181.975 Axial†	483.2	457.4	2543.0 µg/L	2543.0 ppb	06:34:34
1	Sb 206.836†	512.9	486.1	516.52 µg/L	516.52 ppb	06:34:34
1	Se 196.026†	1892.1	1873.8	2835.8 µg/L	2835.8 ppb	06:34:34
1	SiO2†	57325.7	54624.1	11153 µg/L	11153 ppb	06:34:13
1	Si 251.611†	64706.3	64071.5	5190.1 µg/L	5190.1 ppb	06:34:13
1	Sn 189.927†	1017.3	988.3	559.55 µg/L	559.55 ppb	06:34:34
1	Ti 334.940†	204780.4	202961.2	490.33 µg/L	490.33 ppb	06:34:08
1	Tl 190.801†	300.2	323.1	542.17 µg/L	542.17 ppb	06:34:34
1	U 409.014†	5086.1	5244.6	486.47 µg/L	486.47 ppb	06:34:13
1	V 292.402†	42507.4	42391.2	516.19 µg/L	516.19 ppb	06:34:13
1	Zn 213.857†	19016.5	18280.7	510.28 µg/L	510.28 ppb	06:34:13
2	Sc RADIAL	80932.1	80932.1	103 %		06:33:10
2	Al 396.153Radial†	7837.5	7629.6	4930.5 µg/L	4930.5 ppb	06:33:10
2	Ca 317.933Radial†	7204.8	6739.4	4856.0 µg/L	4856.0 ppb	06:33:10
2	Fe 238.204 Radial†	409.7	381.0	5056.4 µg/L	5056.4 ppb	06:33:30
2	K 766.490 Radial†	4336.8	3806.8	2401.7 µg/L	2401.7 ppb	06:33:10
2	Mg 279.077 IEC†	492.8	469.7	4824.2 µg/L	4824.2 ppb	06:33:30
2	Na 589.592 Radial†	9853.9	9001.7	2396.6 µg/L	2396.6 ppb	06:33:10
2	Sr 421.552†	91248.9	87850.7	525.52 µg/L	525.52 ppb	06:33:10
2	Sc 361.383	1984521.4	1984521.4	100.41 %		06:34:40
2	Y 371.029	1250390.4	1250390.4	100.10 %		06:34:40
2	Ag 328.068†	28694.2	28670.1	262.51 µg/L	262.51 ppb	06:34:46
2	As 188.979†	245.9	247.6	538.66 µg/L	538.66 ppb	06:35:06
2	B 249.677†	12257.5	11837.7	558.94 µg/L	558.94 ppb	06:34:46
2	Ba 233.527†	19731.6	19675.3	550.52 µg/L	550.52 ppb	06:34:46
2	Be 313.107†	393202.7	387770.6	260.72 µg/L	260.72 ppb	06:34:40
2	Cd 226.502†	19168.3	19215.7	544.38 µg/L	544.38 ppb	06:34:46
2	Co 228.616†	10409.0	10416.0	553.55 µg/L	553.55 ppb	06:34:46
2	Cr 267.716†	23953.2	23958.0	537.14 µg/L	537.14 ppb	06:34:46
2	Cu 324.752†	79714.3	75490.3	554.22 µg/L	554.22 ppb	06:34:46
2	Mn 257.610†	143465.5	143030.2	507.45 µg/L	507.45 ppb	06:34:46
2	Mo 202.031†	4436.5	4405.9	533.95 µg/L	533.95 ppb	06:35:06
2	Ni 231.604†	8774.6	8407.5	508.47 µg/L	508.47 ppb	06:34:46
2	P 214.914†	1436.2	1210.5	2736.7 µg/L	2736.7 ppb	06:35:06
2	Pb 220.353†	2007.1	1937.8	543.76 µg/L	543.76 ppb	06:35:06

2	S 181.975 Axial†	481.3	456.2	2536.2 µg/L	2536.2 ppb	06:35:06
2	Sb 206.836†	506.8	480.7	510.67 µg/L	510.67 ppb	06:35:06
2	Se 196.026†	1892.1	1876.5	2839.8 µg/L	2839.8 ppb	06:35:06
2	SiO2†	58117.8	55492.1	11330 µg/L	11330 ppb	06:34:46
2	Si 251.611†	65621.4	65072.3	5271.2 µg/L	5271.2 ppb	06:34:46
2	Sn 189.927†	1016.3	988.7	559.77 µg/L	559.77 ppb	06:35:06
2	Ti 334.940†	206425.7	204882.8	494.96 µg/L	494.96 ppb	06:34:40
2	Tl 190.801†	296.0	319.4	535.98 µg/L	535.98 ppb	06:35:06
2	U 409.014†	5189.5	5354.6	496.70 µg/L	496.70 ppb	06:34:46
2	V 292.402†	43059.1	42999.4	523.53 µg/L	523.53 ppb	06:34:46
2	Zn 213.857†	19315.0	18604.2	519.32 µg/L	519.32 ppb	06:34:46
3	Sc RADIAL	79818.3	79818.3	102 %		06:33:36
3	Al 396.153Radial†	7951.1	7847.3	5073.0 µg/L	5073.0 ppb	06:33:36
3	Ca 317.933Radial†	7319.9	6950.0	5007.8 µg/L	5007.8 ppb	06:33:36
3	Fe 238.204 Radial†	406.5	383.4	5087.7 µg/L	5087.7 ppb	06:33:56
3	K 766.490 Radial†	4382.6	3910.5	2467.1 µg/L	2467.1 ppb	06:33:36
3	Mg 279.077 IEC†	491.3	474.9	4875.7 µg/L	4875.7 ppb	06:33:56
3	Na 589.592 Radial†	9904.3	9184.7	2445.3 µg/L	2445.3 ppb	06:33:36
3	Sr 421.552†	92698.1	90510.4	541.43 µg/L	541.43 ppb	06:33:36
3	Sc 361.383	1982848.1	1982848.1	100.32 %		06:35:13
3	Y 371.029	1248683.6	1248683.6	99.966 %		06:35:13
3	Ag 328.068†	27621.7	27625.2	252.84 µg/L	252.84 ppb	06:35:19
3	As 188.979†	213.0	215.0	467.84 µg/L	467.84 ppb	06:35:39
3	B 249.677†	11681.8	11274.2	532.16 µg/L	532.16 ppb	06:35:19
3	Ba 233.527†	18671.7	18635.4	521.41 µg/L	521.41 ppb	06:35:19
3	Be 313.107†	379861.1	374802.5	252.00 µg/L	252.00 ppb	06:35:13
3	Cd 226.502†	18080.1	18147.0	514.07 µg/L	514.07 ppb	06:35:19
3	Co 228.616†	9710.9	9728.9	516.97 µg/L	516.97 ppb	06:35:19
3	Cr 267.716†	21991.7	22023.0	493.76 µg/L	493.76 ppb	06:35:19
3	Cu 324.752†	74691.9	70551.1	518.01 µg/L	518.01 ppb	06:35:19
3	Mn 257.610†	134263.1	133978.0	475.37 µg/L	475.37 ppb	06:35:19
3	Mo 202.031†	3848.5	3823.6	463.40 µg/L	463.40 ppb	06:35:39
3	Ni 231.604†	8223.5	7865.5	475.70 µg/L	475.70 ppb	06:35:19
3	P 214.914†	1280.7	1056.7	2385.0 µg/L	2385.0 ppb	06:35:39
3	Pb 220.353†	1810.1	1743.1	489.06 µg/L	489.06 ppb	06:35:39
3	S 181.975 Axial†	437.8	413.2	2297.3 µg/L	2297.3 ppb	06:35:39
3	Sb 206.836†	453.0	427.6	453.77 µg/L	453.77 ppb	06:35:39
3	Se 196.026†	1708.0	1694.6	2566.5 µg/L	2566.5 ppb	06:35:39
3	SiO2†	55274.1	52706.5	10761 µg/L	10761 ppb	06:35:19
3	Si 251.611†	62208.5	61725.5	5000.1 µg/L	5000.1 ppb	06:35:19
3	Sn 189.927†	866.4	840.2	476.10 µg/L	476.10 ppb	06:35:39
3	Ti 334.940†	198834.1	197489.1	477.09 µg/L	477.09 ppb	06:35:13
3	Tl 190.801†	263.7	287.4	482.44 µg/L	482.44 ppb	06:35:39
3	U 409.014†	4753.0	4923.9	456.65 µg/L	456.65 ppb	06:35:19
3	V 292.402†	39970.5	39956.9	486.23 µg/L	486.23 ppb	06:35:19
3	Zn 213.857†	18077.7	17387.2	485.30 µg/L	485.30 ppb	06:35:19

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1984882.7	100.43 %	0.113			0.11%
Sc RADIAL	80226.4	102 %	0.8			0.76%
Y 371.029	1250392.9	100.10 %	0.137			0.14%
Ag 328.068†	28185.4	258.04 µg/L	4.876	258.04 ppb	4.876	1.89%
QC value within limits for Ag 328.068 Recovery = 103.22%						
Al 396.153Radial†	7742.3	5004.0 µg/L	71.36	5004.0 ppb	71.36	1.43%
QC value within limits for Al 396.153Radial Recovery = 100.08%						
As 188.979†	234.2	509.62 µg/L	37.084	509.62 ppb	37.084	7.28%
QC value within limits for As 188.979 Recovery = 101.92%						
B 249.677†	11556.1	545.57 µg/L	13.388	545.57 ppb	13.388	2.45%
QC value within limits for B 249.677 Recovery = 109.11%						
Ba 233.527†	19229.1	538.03 µg/L	14.991	538.03 ppb	14.991	2.79%
QC value within limits for Ba 233.527 Recovery = 107.61%						
Be 313.107†	382182.0	256.96 µg/L	4.482	256.96 ppb	4.482	1.74%
QC value within limits for Be 313.107 Recovery = 102.78%						
Ca 317.933Radial†	6834.4	4924.5 µg/L	76.96	4924.5 ppb	76.96	1.56%
QC value within limits for Ca 317.933Radial Recovery = 98.49%						
Cd 226.502†	18770.4	531.75 µg/L	15.777	531.75 ppb	15.777	2.97%
QC value within limits for Cd 226.502 Recovery = 106.35%						
Co 228.616†	10129.5	538.30 µg/L	19.033	538.30 ppb	19.033	3.54%

Cr	267.716†	23189.1	519.91 µg/L	23.021	519.91 ppb	23.021	4.43%
	QC value within limits for Cr 267.716 Recovery = 103.98%						
Cu	324.752†	73434.9	539.15 µg/L	18.854	539.15 ppb	18.854	3.50%
	QC value within limits for Cu 324.752 Recovery = 107.83%						
Fe	238.204 Radial†	381.4	5061.4 µg/L	24.29	5061.4 ppb	24.29	0.48%
	QC value within limits for Fe 238.204 Radial Recovery = 101.23%						
K	766.490 Radial†	3851.5	2429.9 µg/L	33.62	2429.9 ppb	33.62	1.38%
	QC value within limits for K 766.490 Radial Recovery = 97.20%						
Mg	279.077 IEC†	468.4	4810.1 µg/L	73.68	4810.1 ppb	73.68	1.53%
	QC value within limits for Mg 279.077 IEC Recovery = 96.20%						
Mn	257.610†	139286.7	494.19 µg/L	16.746	494.19 ppb	16.746	3.39%
	QC value within limits for Mn 257.610 Recovery = 98.84%						
Mo	202.031†	4217.5	511.12 µg/L	41.341	511.12 ppb	41.341	8.09%
	QC value within limits for Mo 202.031 Recovery = 102.22%						
Na	589.592 Radial†	9108.2	2424.9 µg/L	25.31	2424.9 ppb	25.31	1.04%
	QC value within limits for Na 589.592 Radial Recovery = 97.00%						
Ni	231.604†	8182.7	494.87 µg/L	17.085	494.87 ppb	17.085	3.45%
	QC value within limits for Ni 231.604 Recovery = 98.97%						
P	214.914†	1160.5	2622.7 µg/L	205.94	2622.7 ppb	205.94	7.85%
	QC value within limits for P 214.914 Recovery = 104.91%						
Pb	220.353†	1880.4	527.65 µg/L	33.571	527.65 ppb	33.571	6.36%
	QC value within limits for Pb 220.353 Recovery = 105.53%						
S	181.975 Axial†	442.3	2458.8 µg/L	139.96	2458.8 ppb	139.96	5.69%
	QC value within limits for S 181.975 Axial Recovery = 98.35%						
Sb	206.836†	464.8	493.65 µg/L	34.665	493.65 ppb	34.665	7.02%
	QC value within limits for Sb 206.836 Recovery = 98.73%						
Se	196.026†	1815.0	2747.3 µg/L	156.63	2747.3 ppb	156.63	5.70%
	QC value within limits for Se 196.026 Recovery = 109.89%						
SiO2†		54274.2	11081 µg/L	291.0	11081 ppb	291.0	2.63%
	QC value within limits for SiO2 Recovery = 103.61%						
Si	251.611†	63623.1	5153.8 µg/L	139.15	5153.8 ppb	139.15	2.70%
	QC value within limits for Si 251.611 Recovery = 103.08%						
Sn	189.927†	939.1	531.81 µg/L	48.243	531.81 ppb	48.243	9.07%
	QC value within limits for Sn 189.927 Recovery = 106.36%						
Sr	421.552†	89249.4	533.88 µg/L	7.987	533.88 ppb	7.987	1.50%
	QC value within limits for Sr 421.552 Recovery = 106.78%						
Ti	334.940†	201777.7	487.46 µg/L	9.276	487.46 ppb	9.276	1.90%
	QC value within limits for Ti 334.940 Recovery = 97.49%						
Tl	190.801†	309.9	520.20 µg/L	32.842	520.20 ppb	32.842	6.31%
	QC value within limits for Tl 190.801 Recovery = 104.04%						
U	409.014†	5174.4	479.94 µg/L	20.807	479.94 ppb	20.807	4.34%
	QC value within limits for U 409.014 Recovery = 95.99%						
V	292.402†	41782.5	508.65 µg/L	19.757	508.65 ppb	19.757	3.88%
	QC value within limits for V 292.402 Recovery = 101.73%						
Zn	213.857†	18090.7	504.96 µg/L	17.617	504.96 ppb	17.617	3.49%
	QC value within limits for Zn 213.857 Recovery = 100.99%						

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 1/29/2010 06:35:50

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	77995.9	77995.9	99.4 %		06:36:22
1	Al 396.153Radial†	-7.2	22.2	14.359 µg/L	14.359 ppb	06:36:22
1	Ca 317.933Radial†	252.4	6.8	4.9021 µg/L	4.9021 ppb	06:36:43
1	Fe 238.204 Radial†	17.6	1.3	17.681 µg/L	17.681 ppb	06:36:43
1	K 766.490 Radial†	396.0	-0.3	-0.1812 µg/L	-0.1812 ppb	06:36:22
1	Mg 279.077 IEC†	10.5	2.5	25.193 µg/L	25.193 ppb	06:36:43
1	Na 589.592 Radial†	519.5	-30.9	-8.2362 µg/L	-8.2362 ppb	06:36:22
1	Sr 421.552†	645.2	15.2	0.0908 µg/L	0.0908 ppb	06:36:22
1	Sc 361.383	1960605.6	1960605.6	99.198 %		06:37:45
1	Y 371.029	1239249.6	1239249.6	99.211 %		06:37:45
1	Ag 328.068†	-94.2	-2.3	-0.0208 µg/L	-0.0208 ppb	06:37:50
1	As 188.979†	-2.2	0.5	1.0624 µg/L	1.0624 ppb	06:38:11
1	B 249.677†	380.1	13.3	0.6192 µg/L	0.6192 ppb	06:37:50
1	Ba 233.527†	-20.1	3.7	0.1042 µg/L	0.1042 ppb	06:38:11
1	Be 313.107†	3907.2	105.0	0.0706 µg/L	0.0706 ppb	06:37:50
1	Cd 226.502†	-105.8	18.6	0.5264 µg/L	0.5264 ppb	06:38:11
1	Co 228.616†	-50.4	-1.5	-0.0807 µg/L	-0.0807 ppb	06:38:11
1	Cr 267.716†	-91.9	9.5	0.2138 µg/L	0.2138 ppb	06:37:50
1	Cu 324.752†	3935.5	67.4	0.4965 µg/L	0.4965 ppb	06:37:50
1	Mn 257.610†	-139.9	6.8	0.0255 µg/L	0.0255 ppb	06:38:11
1	Mo 202.031†	23.3	10.9	1.3231 µg/L	1.3231 ppb	06:38:11
1	Ni 231.604†	329.4	0.7	0.0426 µg/L	0.0426 ppb	06:38:11
1	P 214.914†	218.6	0.6	1.2664 µg/L	1.2664 ppb	06:38:11
1	Pb 220.353†	57.4	-3.3	-0.9263 µg/L	-0.9263 ppb	06:38:11
1	S 181.975 Axial†	21.0	-2.0	-10.861 µg/L	-10.861 ppb	06:38:11
1	Sb 206.836†	28.3	4.5	4.8136 µg/L	4.8136 ppb	06:38:11
1	Se 196.026†	5.1	-2.8	-4.1480 µg/L	-4.1480 ppb	06:38:11
1	SiO2†	2379.6	9.4	1.9247 µg/L	1.9247 ppb	06:37:50
1	Si 251.611†	300.7	20.7	1.6782 µg/L	1.6782 ppb	06:38:11
1	Sn 189.927†	30.0	6.8	3.8184 µg/L	3.8184 ppb	06:38:11
1	Ti 334.940†	737.3	39.3	0.0932 µg/L	0.0932 ppb	06:37:50
1	Tl 190.801†	-25.0	-0.6	-1.0624 µg/L	-1.0624 ppb	06:38:11
1	U 409.014†	-156.3	28.7	2.6636 µg/L	2.6636 ppb	06:37:50
1	V 292.402†	-126.2	-11.9	-0.1292 µg/L	-0.1292 ppb	06:37:50
1	Zn 213.857†	645.3	18.3	0.5104 µg/L	0.5104 ppb	06:38:11
2	Sc RADIAL	76938.5	76938.5	98.0 %		06:36:48
2	Al 396.153Radial†	-31.9	-3.1	-2.0123 µg/L	-2.0123 ppb	06:36:48
2	Ca 317.933Radial†	255.6	13.5	9.7238 µg/L	9.7238 ppb	06:37:09
2	Fe 238.204 Radial†	16.8	0.8	10.164 µg/L	10.164 ppb	06:37:09
2	K 766.490 Radial†	429.2	39.1	24.673 µg/L	24.673 ppb	06:36:48
2	Mg 279.077 IEC†	13.3	5.4	55.337 µg/L	55.337 ppb	06:37:09
2	Na 589.592 Radial†	529.9	-13.1	-3.4938 µg/L	-3.4938 ppb	06:36:48
2	Sr 421.552†	755.9	137.0	0.8198 µg/L	0.8198 ppb	06:36:48
2	Sc 361.383	1969612.5	1969612.5	99.654 %		06:38:17
2	Y 371.029	1244668.3	1244668.3	99.644 %		06:38:17
2	Ag 328.068†	-104.8	-12.6	-0.1102 µg/L	-0.1102 ppb	06:38:22
2	As 188.979†	0.6	3.3	7.1431 µg/L	7.1431 ppb	06:38:43
2	B 249.677†	374.4	5.7	0.2675 µg/L	0.2675 ppb	06:38:22
2	Ba 233.527†	-11.6	12.3	0.3443 µg/L	0.3443 ppb	06:38:43
2	Be 313.107†	3891.8	71.6	0.0480 µg/L	0.0480 ppb	06:38:22
2	Cd 226.502†	-103.3	21.6	0.6117 µg/L	0.6117 ppb	06:38:43
2	Co 228.616†	-40.5	8.7	0.4612 µg/L	0.4612 ppb	06:38:43
2	Cr 267.716†	-49.2	52.7	1.1821 µg/L	1.1821 ppb	06:38:22
2	Cu 324.752†	3969.6	83.5	0.6134 µg/L	0.6134 ppb	06:38:22
2	Mn 257.610†	-8.8	139.0	0.4918 µg/L	0.4918 ppb	06:38:43
2	Mo 202.031†	18.8	6.3	0.7600 µg/L	0.7600 ppb	06:38:43
2	Ni 231.604†	345.3	15.1	0.9134 µg/L	0.9134 ppb	06:38:43
2	P 214.914†	218.6	-0.5	-1.2611 µg/L	-1.2611 ppb	06:38:43
2	Pb 220.353†	72.4	11.5	3.2422 µg/L	3.2422 ppb	06:38:43

2	S 181.975 Axial†	27.2	4.2	23.371 µg/L	23.371 ppb	06:38:43
2	Sb 206.836†	25.6	1.7	1.8128 µg/L	1.8128 ppb	06:38:43
2	Se 196.026†	6.5	-1.5	-2.1619 µg/L	-2.1619 ppb	06:38:43
2	SiO2†	2374.0	-7.2	-1.4707 µg/L	-1.4707 ppb	06:38:22
2	Si 251.611†	348.3	67.0	5.4307 µg/L	5.4307 ppb	06:38:43
2	Sn 189.927†	26.4	3.1	1.7507 µg/L	1.7507 ppb	06:38:43
2	Ti 334.940†	808.5	107.4	0.2554 µg/L	0.2554 ppb	06:38:22
2	Tl 190.801†	-23.5	1.0	1.6427 µg/L	1.6427 ppb	06:38:43
2	U 409.014†	-267.1	-81.8	-7.6045 µg/L	-7.6045 ppb	06:38:22
2	V 292.402†	-80.6	34.4	0.4156 µg/L	0.4156 ppb	06:38:22
2	Zn 213.857†	662.3	32.4	0.9009 µg/L	0.9009 ppb	06:38:43
3	Sc RADIAL	76991.3	76991.3	98.1 %		06:37:14
3	Al 396.153Radial†	-12.3	16.9	10.942 µg/L	10.942 ppb	06:37:14
3	Ca 317.933Radial†	247.6	5.2	3.7205 µg/L	3.7205 ppb	06:37:34
3	Fe 238.204 Radial†	17.8	1.9	24.574 µg/L	24.574 ppb	06:37:34
3	K 766.490 Radial†	423.4	32.9	20.754 µg/L	20.754 ppb	06:37:14
3	Mg 279.077 IEC†	9.2	1.2	12.747 µg/L	12.747 ppb	06:37:34
3	Na 589.592 Radial†	518.4	-25.3	-6.7265 µg/L	-6.7265 ppb	06:37:14
3	Sr 421.552†	635.3	13.6	0.0813 µg/L	0.0813 ppb	06:37:14
3	Sc 361.383	1959006.8	1959006.8	99.117 %		06:38:49
3	Y 371.029	1238702.0	1238702.0	99.167 %		06:38:49
3	Ag 328.068†	-45.5	46.7	0.4229 µg/L	0.4229 ppb	06:38:54
3	As 188.979†	-4.3	-1.6	-3.4467 µg/L	-3.4467 ppb	06:39:15
3	B 249.677†	360.8	-6.0	-0.2929 µg/L	-0.2929 ppb	06:38:54
3	Ba 233.527†	-4.5	19.4	0.5413 µg/L	0.5413 ppb	06:39:15
3	Be 313.107†	4146.2	349.3	0.2349 µg/L	0.2349 ppb	06:38:54
3	Cd 226.502†	-104.8	19.5	0.5501 µg/L	0.5501 ppb	06:39:15
3	Co 228.616†	-46.6	2.3	0.1241 µg/L	0.1241 ppb	06:39:15
3	Cr 267.716†	-42.6	59.1	1.3247 µg/L	1.3247 ppb	06:38:54
3	Cu 324.752†	4021.8	157.7	1.1597 µg/L	1.1597 ppb	06:38:54
3	Mn 257.610†	-46.7	100.8	0.3600 µg/L	0.3600 ppb	06:39:15
3	Mo 202.031†	22.4	10.0	1.2150 µg/L	1.2150 ppb	06:39:15
3	Ni 231.604†	326.1	-2.4	-0.1473 µg/L	-0.1473 ppb	06:39:15
3	P 214.914†	215.3	-2.7	-6.2944 µg/L	-6.2944 ppb	06:39:15
3	Pb 220.353†	62.0	1.4	0.3900 µg/L	0.3900 ppb	06:39:15
3	S 181.975 Axial†	23.5	0.5	3.0563 µg/L	3.0563 ppb	06:39:15
3	Sb 206.836†	18.4	-5.5	-5.7930 µg/L	-5.7930 ppb	06:39:15
3	Se 196.026†	13.2	5.3	8.1326 µg/L	8.1326 ppb	06:39:15
3	SiO2†	2403.5	35.5	7.2565 µg/L	7.2565 ppb	06:38:54
3	Si 251.611†	312.7	33.0	2.6750 µg/L	2.6750 ppb	06:39:15
3	Sn 189.927†	22.4	-0.8	-0.4515 µg/L	-0.4515 ppb	06:39:15
3	Ti 334.940†	809.3	112.7	0.2714 µg/L	0.2714 ppb	06:38:54
3	Tl 190.801†	-19.3	5.1	8.4313 µg/L	8.4313 ppb	06:39:15
3	U 409.014†	-225.6	-41.4	-3.8526 µg/L	-3.8526 ppb	06:38:54
3	V 292.402†	-112.5	1.8	0.0319 µg/L	0.0319 ppb	06:38:54
3	Zn 213.857†	647.7	21.2	0.5936 µg/L	0.5936 ppb	06:39:15

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1963075.0	99.323 %	0.2893			0.29%
Sc RADIAL	77308.6	98.5 %	0.76			0.77%
Y 371.029	1240873.3	99.341 %	0.2640			0.27%
Ag 328.068†	10.6	0.0973 µg/L	0.28549	0.0973 ppb	0.28549	293.44%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	12.0	7.7628 µg/L	8.63614	7.7628 ppb	8.63614	111.25%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.7	1.5863 µg/L	5.31432	1.5863 ppb	5.31432	335.02%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	4.3	0.1979 µg/L	0.46001	0.1979 ppb	0.46001	232.42%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	11.8	0.3299 µg/L	0.21893	0.3299 ppb	0.21893	66.36%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	175.3	0.1179 µg/L	0.10202	0.1179 ppb	0.10202	86.55%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	8.5	6.1154 µg/L	3.18024	6.1154 ppb	3.18024	52.00%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
cd 226.502†	19.9	0.5627 µg/L	0.04400	0.5627 ppb	0.04400	7.82%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	3.2	0.1682 µg/L	0.27362	0.1682 ppb	0.27362	162.68%

Cr	267.716†	40.5	0.9069 µg/L	0.60444	0.9069 ppb	0.60444	66.65%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	102.8	0.7565 µg/L	0.35399	0.7565 ppb	0.35399	46.79%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	1.3	17.473 µg/L	7.2071	17.473 ppb	7.2071	41.25%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	23.9	15.082 µg/L	13.3626	15.082 ppb	13.3626	88.60%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	3.0	31.092 µg/L	21.8995	31.092 ppb	21.8995	70.43%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	82.2	0.2924 µg/L	0.24036	0.2924 ppb	0.24036	82.20%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	9.1	1.0994 µg/L	0.29883	1.0994 ppb	0.29883	27.18%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-23.1	-6.1522 µg/L	2.42277	-6.1522 ppb	2.42277	39.38%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	4.5	0.2696 µg/L	0.56559	0.2696 ppb	0.56559	209.82%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-0.9	-2.0964 µg/L	3.84901	-2.0964 ppb	3.84901	183.60%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	3.2	0.9020 µg/L	2.13087	0.9020 ppb	2.13087	236.25%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	0.9	5.1886 µg/L	17.21508	5.1886 ppb	17.21508	331.79%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	0.3	0.2778 µg/L	5.46740	0.2778 ppb	5.46740	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	0.4	0.6075 µg/L	6.59210	0.6075 ppb	6.59210	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		12.6	2.5701 µg/L	4.39926	2.5701 ppb	4.39926	171.17%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	40.3	3.2613 µg/L	1.94378	3.2613 ppb	1.94378	59.60%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	3.0	1.7059 µg/L	2.13530	1.7059 ppb	2.13530	125.17%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	55.3	0.3306 µg/L	0.42362	0.3306 ppb	0.42362	128.12%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	86.5	0.2067 µg/L	0.09861	0.2067 ppb	0.09861	47.71%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	1.8	3.0039 µg/L	4.89101	3.0039 ppb	4.89101	162.82%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-31.5	-2.9312 µg/L	5.19569	-2.9312 ppb	5.19569	177.25%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	8.1	0.1061 µg/L	0.27987	0.1061 ppb	0.27987	263.84%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	24.0	0.6683 µg/L	0.20568	0.6683 ppb	0.20568	30.78%
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: 1/29/2010 06:39:24

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	77426.3	77426.3	98.7 %		06:39:57
1	Al 396.153Radial†	302.9	336.5	217.71 µg/L	217.71 ppb	06:39:57
1	Ca 317.933Radial†	539.1	299.3	215.65 µg/L	215.65 ppb	06:40:17
1	Fe 238.204 Radial†	25.9	9.9	130.80 µg/L	130.80 ppb	06:40:17
1	K 766.490 Radial†	672.2	282.6	178.32 µg/L	178.32 ppb	06:39:57
1	Mg 279.077 IEC†	39.0	31.4	321.93 µg/L	321.93 ppb	06:40:17
1	Na 589.592 Radial†	1680.3	1149.5	306.03 µg/L	306.03 ppb	06:39:57
1	Sr 421.552†	1591.7	979.3	5.8582 µg/L	5.8582 ppb	06:39:57
1	Sc 361.383	1954707.3	1954707.3	98.900 %		06:41:19
1	Y 371.029	1236193.9	1236193.9	98.966 %		06:41:19
1	Ag 328.068†	499.6	597.8	5.4421 µg/L	5.4421 ppb	06:41:25
1	As 188.979†	13.6	16.5	35.909 µg/L	35.909 ppb	06:41:45
1	B 249.677†	1506.5	1153.3	54.570 µg/L	54.570 ppb	06:41:25
1	Ba 233.527†	170.3	196.2	5.4903 µg/L	5.4903 ppb	06:41:45
1	Be 313.107†	11759.9	8056.9	5.4189 µg/L	5.4189 ppb	06:41:25
1	Cd 226.502†	71.1	197.2	5.5787 µg/L	5.5787 ppb	06:41:45
1	Co 228.616†	60.5	110.5	5.8774 µg/L	5.8774 ppb	06:41:45
1	Cr 267.716†	166.7	270.7	6.0694 µg/L	6.0694 ppb	06:41:25
1	Cu 324.752†	5458.1	1618.9	11.888 µg/L	11.888 ppb	06:41:25
1	Mn 257.610†	2967.0	3147.8	11.162 µg/L	11.162 ppb	06:41:25
1	Mo 202.031†	107.0	95.6	11.591 µg/L	11.591 ppb	06:41:45
1	Ni 231.604†	426.2	99.5	6.0186 µg/L	6.0186 ppb	06:41:45
1	P 214.914†	297.8	81.3	186.15 µg/L	186.15 ppb	06:41:45
1	Pb 220.353†	108.4	48.4	13.544 µg/L	13.544 ppb	06:41:45
1	S 181.975 Axial†	43.7	21.1	117.06 µg/L	117.06 ppb	06:41:45
1	Sb 206.836†	34.8	11.2	11.962 µg/L	11.962 ppb	06:41:45
1	Se 196.026†	32.7	25.1	38.222 µg/L	38.222 ppb	06:41:45
1	SiO2†	3487.0	1136.4	232.02 µg/L	232.02 ppb	06:41:25
1	Si 251.611†	1623.0	1358.6	110.06 µg/L	110.06 ppb	06:41:45
1	Sn 189.927†	40.8	17.8	10.173 µg/L	10.173 ppb	06:41:45
1	Ti 334.940†	2944.1	2273.0	5.4726 µg/L	5.4726 ppb	06:41:25
1	Tl 190.801†	-10.6	13.8	23.028 µg/L	23.028 ppb	06:41:45
1	U 409.014†	448.0	639.2	59.378 µg/L	59.378 ppb	06:41:25
1	V 292.402†	364.0	483.4	5.9883 µg/L	5.9883 ppb	06:41:25
1	Zn 213.857†	1033.3	412.6	11.528 µg/L	11.528 ppb	06:41:45
2	Sc RADIAL	77597.2	77597.2	98.9 %		06:40:23
2	Al 396.153Radial†	291.4	324.2	209.74 µg/L	209.74 ppb	06:40:23
2	Ca 317.933Radial†	535.0	293.9	211.77 µg/L	211.77 ppb	06:40:43
2	Fe 238.204 Radial†	25.0	8.9	118.08 µg/L	118.08 ppb	06:40:43
2	K 766.490 Radial†	626.4	234.8	148.14 µg/L	148.14 ppb	06:40:23
2	Mg 279.077 IEC†	39.1	31.3	321.77 µg/L	321.77 ppb	06:40:43
2	Na 589.592 Radial†	1712.3	1178.1	313.66 µg/L	313.66 ppb	06:40:23
2	Sr 421.552†	1536.4	919.9	5.5025 µg/L	5.5025 ppb	06:40:23
2	Sc 361.383	1964316.1	1964316.1	99.386 %		06:41:51
2	Y 371.029	1242489.5	1242489.5	99.470 %		06:41:51
2	Ag 328.068†	528.3	624.2	5.6771 µg/L	5.6771 ppb	06:41:57
2	As 188.979†	14.9	17.7	38.614 µg/L	38.614 ppb	06:42:18
2	B 249.677†	1462.0	1101.1	52.106 µg/L	52.106 ppb	06:41:57
2	Ba 233.527†	171.6	196.6	5.5022 µg/L	5.5022 ppb	06:42:18
2	Be 313.107†	11787.7	8026.8	5.3986 µg/L	5.3986 ppb	06:41:57
2	Cd 226.502†	60.5	186.2	5.2674 µg/L	5.2674 ppb	06:42:18
2	Co 228.616†	51.7	101.3	5.3897 µg/L	5.3897 ppb	06:42:18
2	Cr 267.716†	191.7	295.1	6.6149 µg/L	6.6149 ppb	06:41:57
2	Cu 324.752†	5371.0	1504.3	11.046 µg/L	11.046 ppb	06:41:57
2	Mn 257.610†	2986.4	3152.7	11.178 µg/L	11.178 ppb	06:41:57
2	Mo 202.031†	105.1	93.1	11.285 µg/L	11.285 ppb	06:42:18
2	Ni 231.604†	424.6	95.9	5.7992 µg/L	5.7992 ppb	06:42:18
2	P 214.914†	291.2	73.1	167.55 µg/L	167.55 ppb	06:42:18
2	Pb 220.353†	103.2	42.7	11.930 µg/L	11.930 ppb	06:42:18

2	S 181.975 Axial†	41.4	18.6	103.13 µg/L	103.13 ppb	06:42:18
2	Sb 206.836†	34.3	10.5	11.162 µg/L	11.162 ppb	06:42:18
2	Se 196.026†	35.2	27.4	41.627 µg/L	41.627 ppb	06:42:18
2	SiO2†	3506.8	1139.1	232.57 µg/L	232.57 ppb	06:41:57
2	Si 251.611†	1612.1	1339.7	108.52 µg/L	108.52 ppb	06:42:18
2	Sn 189.927†	46.1	22.9	13.048 µg/L	13.048 ppb	06:42:18
2	Ti 334.940†	2927.3	2241.5	5.3965 µg/L	5.3965 ppb	06:41:57
2	Tl 190.801†	-8.0	16.5	27.543 µg/L	27.543 ppb	06:42:18
2	U 409.014†	446.7	635.7	59.052 µg/L	59.052 ppb	06:41:57
2	V 292.402†	329.8	447.1	5.5497 µg/L	5.5497 ppb	06:41:57
2	Zn 213.857†	1031.9	406.0	11.346 µg/L	11.346 ppb	06:42:18
3	Sc RADIAL	77065.9	77065.9	98.2 %		06:40:49
3	Al 396.153Radial†	278.6	313.2	202.64 µg/L	202.64 ppb	06:40:49
3	Ca 317.933Radial†	522.3	284.7	205.11 µg/L	205.11 ppb	06:41:09
3	Fe 238.204 Radial†	24.0	8.1	106.82 µg/L	106.82 ppb	06:41:09
3	K 766.490 Radial†	692.6	306.6	193.42 µg/L	193.42 ppb	06:40:49
3	Mg 279.077 IEC†	41.5	34.1	350.16 µg/L	350.16 ppb	06:41:09
3	Na 589.592 Radial†	1687.8	1165.2	310.20 µg/L	310.20 ppb	06:40:49
3	Sr 421.552†	1547.9	942.3	5.6367 µg/L	5.6367 ppb	06:40:49
3	Sc 361.383	1958720.9	1958720.9	99.103 %		06:42:24
3	Y 371.029	1238417.9	1238417.9	99.144 %		06:42:24
3	Ag 328.068†	465.2	562.0	5.1129 µg/L	5.1129 ppb	06:42:29
3	As 188.979†	12.2	15.1	32.828 µg/L	32.828 ppb	06:42:50
3	B 249.677†	1418.5	1061.4	50.227 µg/L	50.227 ppb	06:42:29
3	Ba 233.527†	154.9	180.3	5.0448 µg/L	5.0448 ppb	06:42:50
3	Be 313.107†	11325.3	7594.0	5.1076 µg/L	5.1076 ppb	06:42:29
3	Cd 226.502†	48.3	174.0	4.9235 µg/L	4.9235 ppb	06:42:50
3	Co 228.616†	32.1	81.7	4.3435 µg/L	4.3435 ppb	06:42:50
3	Cr 267.716†	158.5	262.1	5.8761 µg/L	5.8761 ppb	06:42:29
3	Cu 324.752†	5332.0	1480.4	10.869 µg/L	10.869 ppb	06:42:29
3	Mn 257.610†	2810.9	2984.2	10.578 µg/L	10.578 ppb	06:42:29
3	Mo 202.031†	92.0	80.2	9.7224 µg/L	9.7224 ppb	06:42:50
3	Ni 231.604†	407.3	79.5	4.8126 µg/L	4.8126 ppb	06:42:50
3	P 214.914†	284.4	67.1	153.62 µg/L	153.62 ppb	06:42:50
3	Pb 220.353†	100.5	40.2	11.253 µg/L	11.253 ppb	06:42:50
3	S 181.975 Axial†	44.1	21.4	118.97 µg/L	118.97 ppb	06:42:50
3	Sb 206.836†	30.6	6.9	7.3891 µg/L	7.3891 ppb	06:42:50
3	Se 196.026†	32.6	24.9	37.781 µg/L	37.781 ppb	06:42:50
3	SiO2†	3420.3	1061.9	216.81 µg/L	216.81 ppb	06:42:29
3	Si 251.611†	1481.5	1212.5	98.218 µg/L	98.218 ppb	06:42:50
3	Sn 189.927†	37.3	14.2	8.1292 µg/L	8.1292 ppb	06:42:50
3	Ti 334.940†	2772.0	2093.2	5.0355 µg/L	5.0355 ppb	06:42:29
3	Tl 190.801†	-8.0	16.5	27.582 µg/L	27.582 ppb	06:42:50
3	U 409.014†	361.0	550.5	51.143 µg/L	51.143 ppb	06:42:29
3	V 292.402†	305.2	423.3	5.2408 µg/L	5.2408 ppb	06:42:29
3	Zn 213.857†	984.3	360.9	10.082 µg/L	10.082 ppb	06:42:50

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1959248.1	99.129 %	0.2442			0.25%
Sc RADIAL	77363.1	98.6 %	0.35			0.35%
Y 371.029	1239033.8	99.193 %	0.2556			0.26%
Ag 328.068†	594.6	5.4107 µg/L	0.28341	5.4107 ppb	0.28341	5.24%
QC value within limits for Ag 328.068 Recovery = 108.21%						
Al 396.153Radial†	324.6	210.03 µg/L	7.536	210.03 ppb	7.536	3.59%
QC value within limits for Al 396.153Radial Recovery = 105.02%						
As 188.979†	16.4	35.784 µg/L	2.8949	35.784 ppb	2.8949	8.09%
QC value within limits for As 188.979 Recovery = 119.28%						
B 249.677†	1105.3	52.301 µg/L	2.1785	52.301 ppb	2.1785	4.17%
QC value within limits for B 249.677 Recovery = 104.60%						
Ba 233.527†	191.0	5.3458 µg/L	0.26070	5.3458 ppb	0.26070	4.88%
QC value within limits for Ba 233.527 Recovery = 106.92%						
Be 313.107†	7892.6	5.3084 µg/L	0.17417	5.3084 ppb	0.17417	3.28%
QC value within limits for Be 313.107 Recovery = 106.17%						
Ca 317.933Radial†	292.6	210.84 µg/L	5.330	210.84 ppb	5.330	2.53%
QC value within limits for Ca 317.933Radial Recovery = 105.42%						
Cd 226.502†	185.8	5.2566 µg/L	0.32773	5.2566 ppb	0.32773	6.23%
QC value within limits for Cd 226.502 Recovery = 105.13%						
Co 228.616†	97.8	5.2035 µg/L	0.78370	5.2035 ppb	0.78370	15.06%

Cr	267.716†	276.0	6.1868 µg/L	0.38316	6.1868 ppb	0.38316	6.19%
	QC value within limits for Cr 267.716 Recovery = 123.74%						
Cu	324.752†	1534.5	11.268 µg/L	0.5445	11.268 ppb	0.5445	4.83%
	QC value within limits for Cu 324.752 Recovery = 112.68%						
Fe	238.204 Radial†	8.9	118.57 µg/L	11.997	118.57 ppb	11.997	10.12%
	QC value within limits for Fe 238.204 Radial Recovery = 118.57%						
K	766.490 Radial†	274.7	173.29 µg/L	23.052	173.29 ppb	23.052	13.30%
	QC value within limits for K 766.490 Radial Recovery = 115.53%						
Mg	279.077 IEC†	32.3	331.28 µg/L	16.344	331.28 ppb	16.344	4.93%
	QC value within limits for Mg 279.077 IEC Recovery = 110.43%						
Mn	257.610†	3094.9	10.972 µg/L	0.3420	10.972 ppb	0.3420	3.12%
	QC value within limits for Mn 257.610 Recovery = 109.72%						
Mo	202.031†	89.7	10.866 µg/L	1.0025	10.866 ppb	1.0025	9.23%
	QC value within limits for Mo 202.031 Recovery = 108.66%						
Na	589.592 Radial†	1164.3	309.96 µg/L	3.823	309.96 ppb	3.823	1.23%
	QC value within limits for Na 589.592 Radial Recovery = 103.32%						
Ni	231.604†	91.6	5.5435 µg/L	0.64236	5.5435 ppb	0.64236	11.59%
	QC value within limits for Ni 231.604 Recovery = 110.87%						
P	214.914†	73.8	169.11 µg/L	16.318	169.11 ppb	16.318	9.65%
	QC value within limits for P 214.914 Recovery = 112.74%						
Pb	220.353†	43.8	12.242 µg/L	1.1773	12.242 ppb	1.1773	9.62%
	QC value within limits for Pb 220.353 Recovery = 122.42%						
S	181.975 Axial†	20.3	113.05 µg/L	8.646	113.05 ppb	8.646	7.65%
	QC value within limits for S 181.975 Axial Recovery = 113.05%						
Sb	206.836†	9.5	10.171 µg/L	2.4424	10.171 ppb	2.4424	24.01%
	QC value within limits for Sb 206.836 Recovery = 101.71%						
Se	196.026†	25.8	39.210 µg/L	2.1050	39.210 ppb	2.1050	5.37%
	QC value greater than the upper limit for Se 196.026 Recovery = 130.70%						
SiO2†		1112.4	227.13 µg/L	8.946	227.13 ppb	8.946	3.94%
	QC value within limits for SiO2 Recovery = 106.63%						
Si	251.611†	1303.6	105.60 µg/L	6.437	105.60 ppb	6.437	6.10%
	QC value within limits for Si 251.611 Recovery = 105.60%						
Sn	189.927†	18.3	10.450 µg/L	2.4710	10.450 ppb	2.4710	23.65%
	QC value within limits for Sn 189.927 Recovery = 104.50%						
Sr	421.552†	947.2	5.6658 µg/L	0.17963	5.6658 ppb	0.17963	3.17%
	QC value within limits for Sr 421.552 Recovery = 113.32%						
Ti	334.940†	2202.6	5.3015 µg/L	0.23350	5.3015 ppb	0.23350	4.40%
	QC value within limits for Ti 334.940 Recovery = 106.03%						
Tl	190.801†	15.6	26.051 µg/L	2.6180	26.051 ppb	2.6180	10.05%
	QC value greater than the upper limit for Tl 190.801 Recovery = 130.25%						
U	409.014†	608.5	56.524 µg/L	4.6634	56.524 ppb	4.6634	8.25%
	QC value within limits for U 409.014 Recovery = 113.05%						
V	292.402†	451.3	5.5929 µg/L	0.37562	5.5929 ppb	0.37562	6.72%
	QC value within limits for V 292.402 Recovery = 111.86%						
Zn	213.857†	393.2	10.985 µg/L	0.7873	10.985 ppb	0.7873	7.17%
	QC value within limits for Zn 213.857 Recovery = 109.85%						
QC Failed. Continue with analysis.							

Sequence No.: 9

Sample ID: IC5A

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 1/29/2010 06:42:59

Data Type: Original

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 RADIAL	75709.8	75709.8	96.5 %		06:43:40
1	Al 396.153Radial†	766188.4	794257.4	514420 µg/L	514420 ppb	06:43:35
1	Ca 317.933Radial†	651112.5	674693.6	486150 µg/L	486150 ppb	06:43:35
1	Fe 238.204 Radial†	13998.6	14494.6	191930 µg/L	191930 ppb	06:43:40
1	K 766.490 Radial†	224.3	-166.2	-104.86 µg/L	-104.86 ppb	06:43:40
1	Mg 279.077 IEC†	46618.0	48315.9	495650 µg/L	495650 ppb	06:43:40
1	Na 589.592 Radial†	609.5	78.1	20.793 µg/L	20.793 ppb	06:43:40
1	Sr 421.552†	1222.5	633.2	3.7877 µg/L	3.7877 ppb	06:43:40
1	Sc 361.383	1844586.0	1844586.0	93.328 %		06:44:13
1	Y 371.029	1152552.6	1152552.6	92.270 %		06:44:13
1	Ag 328.068†	-2181.1	-2244.4	-8.2125 µg/L	-8.2125 ppb	06:44:18
1	As 188.979†	-6.5	-4.2	-23.328 µg/L	-23.328 ppb	06:44:39
1	B 249.677†	2701.5	2524.7	19.438 µg/L	19.438 ppb	06:44:18
1	Ba 233.527†	212.3	251.4	7.0107 µg/L	7.0107 ppb	06:44:39
1	Be 313.107†	3036.2	-580.5	-0.4011 µg/L	-0.4011 ppb	06:44:18
1	Cd 226.502†	655.7	827.9	1.7668 µg/L	1.7668 ppb	06:44:39
1	Co 228.616†	-15.6	32.6	1.6666 µg/L	1.6666 ppb	06:44:39
1	Cr 267.716†	-108.2	-13.8	-0.3136 µg/L	-0.3136 ppb	06:44:39
1	Cu 324.752†	546.1	-3314.8	2.3733 µg/L	2.3733 ppb	06:44:18
1	Mn 257.610†	-2468.2	-2496.8	-3.1571 µg/L	-3.1571 ppb	06:44:18
1	Mo 202.031†	-86.8	-105.6	-5.5005 µg/L	-5.5005 ppb	06:44:39
1	Ni 231.604†	300.6	-9.3	1.9309 µg/L	1.9309 ppb	06:44:39
1	P 214.914†	231.9	28.6	57.667 µg/L	57.667 ppb	06:44:39
1	Pb 220.353†	-45.6	-110.0	-9.8561 µg/L	-9.8561 ppb	06:44:39
1	S 181.975 Axial†	64.3	45.8	254.45 µg/L	254.45 ppb	06:44:39
1	Sb 206.836†	67.8	48.7	8.9817 µg/L	8.9817 ppb	06:44:39
1	Se 196.026†	-395.2	-431.4	16.506 µg/L	16.506 ppb	06:44:39
1	SiO2†	2116.0	-122.1	-24.934 µg/L	-24.934 ppb	06:44:39
1	Si 251.611†	380.6	125.3	10.154 µg/L	10.154 ppb	06:44:39
1	Sn 189.927†	-323.3	-369.9	11.842 µg/L	11.842 ppb	06:44:39
1	Ti 334.940†	11244.8	11344.9	-3.9702 µg/L	-3.9702 ppb	06:44:18
1	Tl 190.801†	20.0	46.0	-8.5499 µg/L	-8.5499 ppb	06:44:39
1	U 409.014†	-143.9	32.0	-53.356 µg/L	-53.356 ppb	06:44:18
1	V 292.402†	-641.3	-571.9	3.1952 µg/L	3.1952 ppb	06:44:18
1	Zn 213.857†	1865.6	1366.7	1.2276 µg/L	1.2276 ppb	06:44:39
2	Sc RADIAL	74864.5	74864.5	95.4 %		06:43:51
2	Al 396.153Radial†	765183.9	802171.8	519540 µg/L	519540 ppb	06:43:46
2	Ca 317.933Radial†	649077.7	680180.9	490100 µg/L	490100 ppb	06:43:46
2	Fe 238.204 Radial†	13896.0	14550.8	192680 µg/L	192680 ppb	06:43:51
2	K 766.490 Radial†	267.4	-118.3	-74.658 µg/L	-74.658 ppb	06:43:51
2	Mg 279.077 IEC†	46429.5	48663.9	499220 µg/L	499220 ppb	06:43:51
2	Na 589.592 Radial†	621.6	97.9	26.075 µg/L	26.075 ppb	06:43:51
2	Sr 421.552†	1193.8	617.4	3.6934 µg/L	3.6934 ppb	06:43:51
2	Sc 361.383	1835658.1	1835658.1	92.876 %		06:44:45
2	Y 371.029	1146805.4	1146805.4	91.810 %		06:44:45
2	Ag 328.068†	-2117.4	-2187.2	-7.6548 µg/L	-7.6548 ppb	06:44:51
2	As 188.979†	-2.8	-0.3	-15.025 µg/L	-15.025 ppb	06:45:11
2	B 249.677†	2613.3	2443.9	15.218 µg/L	15.218 ppb	06:44:51
2	Ba 233.527†	214.0	254.4	7.0911 µg/L	7.0911 ppb	06:45:11
2	Be 313.107†	3036.8	-564.1	-0.3901 µg/L	-0.3901 ppb	06:44:51
2	Cd 226.502†	669.2	845.8	2.1898 µg/L	2.1898 ppb	06:45:11
2	Co 228.616†	-20.7	27.0	1.3669 µg/L	1.3669 ppb	06:45:11
2	Cr 267.716†	-77.6	18.6	0.4120 µg/L	0.4120 ppb	06:45:11
2	Cu 324.752†	519.6	-3340.5	2.2882 µg/L	2.2882 ppb	06:44:51
2	Mn 257.610†	-2466.8	-2508.1	-3.2412 µg/L	-3.2412 ppb	06:44:51
2	Mo 202.031†	-90.8	-110.4	-6.0490 µg/L	-6.0490 ppb	06:45:11
2	Ni 231.604†	294.6	-14.2	1.6452 µg/L	1.6452 ppb	06:45:11
2	P 214.914†	224.5	21.9	42.771 µg/L	42.771 ppb	06:45:11
2	Pb 220.353†	-45.6	-110.2	-9.6741 µg/L	-9.6741 ppb	06:45:11

2	S 181.975 Axial†	61.6	43.2	240.32 µg/L	240.32 ppb	06:45:11
2	Sb 206.836†	49.4	29.2	-11.960 µg/L	-11.960 ppb	06:45:11
2	Se 196.026†	-381.0	-418.2	38.694 µg/L	38.694 ppb	06:45:11
2	SiO2†	2105.2	-122.8	-25.063 µg/L	-25.063 ppb	06:45:11
2	Si 251.611†	381.0	127.8	10.352 µg/L	10.352 ppb	06:45:11
2	Sn 189.927†	-354.7	-405.3	-6.5075 µg/L	-6.5075 ppb	06:45:11
2	Ti 334.940†	11278.1	11439.3	-3.9608 µg/L	-3.9608 ppb	06:44:51
2	Tl 190.801†	16.0	41.8	-16.175 µg/L	-16.175 ppb	06:45:11
2	U 409.014†	-38.2	145.1	-43.195 µg/L	-43.195 ppb	06:44:51
2	V 292.402†	-708.0	-647.0	2.3389 µg/L	2.3389 ppb	06:44:51
2	Zn 213.857†	1854.1	1364.0	0.9168 µg/L	0.9168 ppb	06:45:11
3	Sc RADIAL	74897.5	74897.5	95.4 %		06:44:03
3	Al 396.153Radial†	759712.9	796085.2	515600 µg/L	515600 ppb	06:43:57
3	Ca 317.933Radial†	642978.1	673489.3	485280 µg/L	485280 ppb	06:43:57
3	Fe 238.204 Radial†	13913.5	14562.8	192840 µg/L	192840 ppb	06:44:03
3	K 766.490 Radial†	215.3	-173.1	-109.21 µg/L	-109.21 ppb	06:44:03
3	Mg 279.077 IEC†	46363.0	48572.7	498290 µg/L	498290 ppb	06:44:03
3	Na 589.592 Radial†	623.2	99.3	26.449 µg/L	26.449 ppb	06:44:03
3	Sr 421.552†	1210.6	634.4	3.7951 µg/L	3.7951 ppb	06:44:03
3	Sc 361.383	1831604.9	1831604.9	92.671 %		06:45:17
3	Y 371.029	1144864.1	1144864.1	91.654 %		06:45:17
3	Ag 328.068†	-2154.8	-2232.6	-8.0568 µg/L	-8.0568 ppb	06:45:23
3	As 188.979†	-2.7	-0.2	-14.435 µg/L	-14.435 ppb	06:45:43
3	B 249.677†	2555.0	2387.2	12.449 µg/L	12.449 ppb	06:45:23
3	Ba 233.527†	217.5	258.7	7.2109 µg/L	7.2109 ppb	06:45:43
3	Be 313.107†	3034.3	-559.5	-0.3868 µg/L	-0.3868 ppb	06:45:23
3	Cd 226.502†	660.3	837.8	1.9464 µg/L	1.9464 ppb	06:45:43
3	Co 228.616†	-6.3	42.6	2.1956 µg/L	2.1956 ppb	06:45:43
3	Cr 267.716†	-110.1	-16.6	-0.3776 µg/L	-0.3776 ppb	06:45:43
3	Cu 324.752†	573.3	-3281.3	2.7447 µg/L	2.7447 ppb	06:45:23
3	Mn 257.610†	-2469.2	-2516.7	-3.2129 µg/L	-3.2129 ppb	06:45:23
3	Mo 202.031†	-91.9	-111.8	-6.2114 µg/L	-6.2114 ppb	06:45:43
3	Ni 231.604†	281.3	-27.9	0.8142 µg/L	0.8142 ppb	06:45:43
3	P 214.914†	235.4	34.2	70.075 µg/L	70.075 ppb	06:45:43
3	Pb 220.353†	-50.3	-115.4	-11.355 µg/L	-11.355 ppb	06:45:43
3	S 181.975 Axial†	63.4	45.3	251.62 µg/L	251.62 ppb	06:45:43
3	Sb 206.836†	71.4	53.1	13.677 µg/L	13.677 ppb	06:45:43
3	Se 196.026†	-397.0	-436.3	11.397 µg/L	11.397 ppb	06:45:43
3	SiO2†	2121.9	-99.7	-20.352 µg/L	-20.352 ppb	06:45:43
3	Si 251.611†	398.0	147.1	11.913 µg/L	11.913 ppb	06:45:43
3	Sn 189.927†	-335.2	-385.2	3.6265 µg/L	3.6265 ppb	06:45:43
3	Ti 334.940†	11038.4	11207.5	-4.5243 µg/L	-4.5243 ppb	06:45:23
3	Tl 190.801†	14.2	39.9	-18.536 µg/L	-18.536 ppb	06:45:43
3	U 409.014†	-107.3	70.4	-49.861 µg/L	-49.861 ppb	06:45:23
3	V 292.402†	-728.6	-670.9	2.0490 µg/L	2.0490 ppb	06:45:23
3	Zn 213.857†	1837.5	1350.5	0.5854 µg/L	0.5854 ppb	06:45:43

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1837283.0	92.959 %	0.3360			0.36%
Sc RADIAL	75157.3	95.8 %	0.61			0.64%
Y 371.029	1148074.0	91.911 %	0.3201			0.35%
Ag 328.068†	-2221.4	-7.9747 µg/L	0.28777	-7.9747 ppb	0.28777	3.61%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	797504.8	516520 µg/L	2683.8	516520 ppb	2683.8	0.52%
QC value within limits for Al 396.153Radial Recovery = 103.30%						
As 188.979†	-1.6	-17.596 µg/L	4.9726	-17.596 ppb	4.9726	28.26%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	2451.9	15.702 µg/L	3.5191	15.702 ppb	3.5191	22.41%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	254.8	7.1042 µg/L	0.10078	7.1042 ppb	0.10078	1.42%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-568.0	-0.3926 µg/L	0.00749	-0.3926 ppb	0.00749	1.91%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	676121.3	487180 µg/L	2570.2	487180 ppb	2570.2	0.53%
QC value within limits for Ca 317.933Radial Recovery = 97.44%						
Cd 226.502†	837.2	1.9677 µg/L	0.21234	1.9677 ppb	0.21234	10.79%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	34.1	1.7430 µg/L	0.41961	1.7430 ppb	0.41961	24.07%

Cr	267.716†	-3.9	-0.0930 µg/L	0.43859	-0.0930 ppb	0.43859	471.40%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	-3312.2	2.4688 µg/L	0.24275	2.4688 ppb	0.24275	9.83%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	14536.0	192480 µg/L	482.3	192480 ppb	482.3	0.25%
QC value within limits for Fe 238.204 Radial Recovery = 96.24%							
K	766.490 Radial†	-152.5	-96.244 µg/L	18.8199	-96.244 ppb	18.8199	19.55%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	48517.5	497720 µg/L	1851.4	497720 ppb	1851.4	0.37%
QC value within limits for Mg 279.077 IEC Recovery = 99.54%							
Mn	257.610†	-2507.2	-3.2038 µg/L	0.04278	-3.2038 ppb	0.04278	1.34%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	-109.2	-5.9203 µg/L	0.37249	-5.9203 ppb	0.37249	6.29%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	91.8	24.439 µg/L	3.1630	24.439 ppb	3.1630	12.94%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-17.1	1.4634 µg/L	0.58014	1.4634 ppb	0.58014	39.64%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	28.2	56.838 µg/L	13.6711	56.838 ppb	13.6711	24.05%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-111.9	-10.295 µg/L	0.9225	-10.295 ppb	0.9225	8.96%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	44.8	248.80 µg/L	7.477	248.80 ppb	7.477	3.01%
QC value greater than the upper limit for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	43.6	3.5664 µg/L	13.64944	3.5664 ppb	13.64944	382.72%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-428.6	22.199 µg/L	14.5116	22.199 ppb	14.5116	65.37%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		-114.9	-23.450 µg/L	2.6830	-23.450 ppb	2.6830	11.44%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	133.4	10.806 µg/L	0.9639	10.806 ppb	0.9639	8.92%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	-386.8	2.9869 µg/L	9.19132	2.9869 ppb	9.19132	307.72%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	628.4	3.7587 µg/L	0.05670	3.7587 ppb	0.05670	1.51%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	11330.5	-4.1518 µg/L	0.32270	-4.1518 ppb	0.32270	7.77%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	42.5	-14.420 µg/L	5.2190	-14.420 ppb	5.2190	36.19%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	82.5	-48.804 µg/L	5.1627	-48.804 ppb	5.1627	10.58%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-629.9	2.5277 µg/L	0.59596	2.5277 ppb	0.59596	23.58%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	1360.4	0.9099 µg/L	0.32113	0.9099 ppb	0.32113	35.29%
QC value within limits for Zn 213.857 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 10

Sample ID: ICSAB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 104

Date Collected: 1/29/2010 06:45:54

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	74813.4	74813.4	95.3 %		06:46:33
1	Al 396.153Radial†	776009.2	814075.0	527240 µg/L	527240 ppb	06:46:28
1	Ca 317.933Radial†	659319.7	691389.3	498180 µg/L	498180 ppb	06:46:28
1	Fe 238.204 Radial†	13849.9	14512.5	192180 µg/L	192180 ppb	06:46:33
1	K 766.490 Radial†	8385.2	8397.5	5298.0 µg/L	5298.0 ppb	06:46:33
1	Mg 279.077 IEC†	46333.9	48596.8	498540 µg/L	498540 ppb	06:46:33
1	Na 589.592 Radial†	19036.3	19415.7	5169.1 µg/L	5169.1 ppb	06:46:33
1	Sr 421.552†	86671.2	90285.4	540.08 µg/L	540.08 ppb	06:46:28
1	Sc 361.383	1832013.7	1832013.7	92.692 %		06:47:09
1	Y 371.029	1144827.4	1144827.4	91.651 %		06:47:09
1	Ag 328.068†	25713.4	27833.3	266.83 µg/L	266.83 ppb	06:47:09
1	As 188.979†	224.6	245.0	518.25 µg/L	518.25 ppb	06:47:30
1	B 249.677†	13211.7	13883.4	558.16 µg/L	558.16 ppb	06:47:09
1	Ba 233.527†	17531.7	18938.0	529.94 µg/L	529.94 ppb	06:47:09
1	Be 313.107†	350552.4	374357.1	251.67 µg/L	251.67 ppb	06:47:09
1	Cd 226.502†	16564.7	17996.0	488.63 µg/L	488.63 ppb	06:47:09
1	Co 228.616†	8025.2	8707.2	462.48 µg/L	462.48 ppb	06:47:30
1	Cr 267.716†	21150.8	22920.6	513.91 µg/L	513.91 ppb	06:47:09
1	Cu 324.752†	73985.3	75918.6	583.37 µg/L	583.37 ppb	06:47:09
1	Mn 257.610†	129370.7	139718.5	500.85 µg/L	500.85 ppb	06:47:09
1	Mo 202.031†	3826.7	4115.9	505.92 µg/L	505.92 ppb	06:47:30
1	Ni 231.604†	7381.8	7632.3	464.07 µg/L	464.07 ppb	06:47:30
1	P 214.914†	1309.1	1192.5	2690.0 µg/L	2690.0 ppb	06:47:30
1	Pb 220.353†	1637.7	1705.7	500.10 µg/L	500.10 ppb	06:47:30
1	S 181.975 Axial†	519.5	537.3	2987.0 µg/L	2987.0 ppb	06:47:30
1	Sb 206.836†	516.1	532.8	522.52 µg/L	522.52 ppb	06:47:30
1	Se 196.026†	1163.8	1247.6	2542.4 µg/L	2542.4 ppb	06:47:30
1	SiO2†	55242.3	57208.4	11681 µg/L	11681 ppb	06:47:09
1	Si 251.611†	62694.5	67355.1	5456.1 µg/L	5456.1 ppb	06:47:09
1	Sn 189.927†	557.7	578.2	549.47 µg/L	549.47 ppb	06:47:30
1	Ti 334.940†	214685.3	230907.8	526.75 µg/L	526.75 ppb	06:47:09
1	Tl 190.801†	286.5	333.6	474.42 µg/L	474.42 ppb	06:47:30
1	U 409.014†	5377.7	5988.0	499.46 µg/L	499.46 ppb	06:47:09
1	V 292.402†	40647.8	43967.9	544.83 µg/L	544.83 ppb	06:47:09
1	Zn 213.857†	18294.5	19104.7	496.69 µg/L	496.69 ppb	06:47:09
2	Sc RADIAL	74990.7	74990.7	95.6 %		06:46:45
2	Al 396.153Radial†	764565.6	800175.2	518240 µg/L	518240 ppb	06:46:40
2	Ca 317.933Radial†	648030.6	677940.4	488490 µg/L	488490 ppb	06:46:40
2	Fe 238.204 Radial†	13770.4	14394.9	190620 µg/L	190620 ppb	06:46:45
2	K 766.490 Radial†	8403.7	8396.0	5297.1 µg/L	5297.1 ppb	06:46:45
2	Mg 279.077 IEC†	46231.3	48374.6	496260 µg/L	496260 ppb	06:46:45
2	Na 589.592 Radial†	19011.9	19343.0	5149.8 µg/L	5149.8 ppb	06:46:45
2	Sr 421.552†	85360.4	88698.7	530.59 µg/L	530.59 ppb	06:46:40
2	Sc 361.383	1810753.6	1810753.6	91.616 %		06:47:37
2	Y 371.029	1131749.1	1131749.1	90.604 %		06:47:37
2	Ag 328.068†	25458.5	27880.8	267.16 µg/L	267.16 ppb	06:47:37
2	As 188.979†	223.6	246.8	522.53 µg/L	522.53 ppb	06:47:58
2	B 249.677†	13008.9	13829.4	556.41 µg/L	556.41 ppb	06:47:37
2	Ba 233.527†	17314.3	18922.7	529.52 µg/L	529.52 ppb	06:47:37
2	Be 313.107†	346550.3	374429.2	251.72 µg/L	251.72 ppb	06:47:37
2	Cd 226.502†	16381.2	18005.6	489.08 µg/L	489.08 ppb	06:47:37
2	Co 228.616†	8020.0	8803.2	467.60 µg/L	467.60 ppb	06:47:58
2	Cr 267.716†	20922.2	22939.0	514.32 µg/L	514.32 ppb	06:47:37
2	Cu 324.752†	73521.1	76349.0	586.31 µg/L	586.31 ppb	06:47:37
2	Mn 257.610†	127765.4	139605.0	500.33 µg/L	500.33 ppb	06:47:37
2	Mo 202.031†	3843.8	4183.0	513.99 µg/L	513.99 ppb	06:47:58
2	Ni 231.604†	7381.4	7725.4	469.68 µg/L	469.68 ppb	06:47:58
2	P 214.914†	1311.4	1211.6	2732.3 µg/L	2732.3 ppb	06:47:58
2	Pb 220.353†	1649.6	1739.4	509.13 µg/L	509.13 ppb	06:47:58

2	S 181.975 Axial†	523.5	548.3	3048.4 µg/L	3048.4 ppb	06:47:58
2	Sb 206.836†	518.3	541.7	532.92 µg/L	532.92 ppb	06:47:58
2	Se 196.026†	1149.0	1246.2	2533.1 µg/L	2533.1 ppb	06:47:58
2	SiO2†	54671.5	57285.1	11696 µg/L	11696 ppb	06:47:37
2	Si 251.611†	61867.1	67246.1	5447.2 µg/L	5447.2 ppb	06:47:37
2	Sn 189.927†	556.5	584.0	550.04 µg/L	550.04 ppb	06:47:58
2	Ti 334.940†	212489.4	231230.3	527.55 µg/L	527.55 ppb	06:47:37
2	Tl 190.801†	279.8	329.9	469.84 µg/L	469.84 ppb	06:47:58
2	U 409.014†	5355.4	6031.7	504.33 µg/L	504.33 ppb	06:47:37
2	V 292.402†	40174.5	43966.1	544.80 µg/L	544.80 ppb	06:47:37
2	Zn 213.857†	18147.0	19175.3	498.85 µg/L	498.85 ppb	06:47:37
3	Sc RADIAL	74868.7	74868.7	95.4 %		06:46:57
3	Al 396.153Radial†	766045.0	803029.0	520090 µg/L	520090 ppb	06:46:51
3	Ca 317.933Radial†	649422.7	680504.1	490330 µg/L	490330 ppb	06:46:51
3	Fe 238.204 Radial†	13870.3	14523.1	192320 µg/L	192320 ppb	06:46:57
3	K 766.490 Radial†	8423.2	8430.8	5319.1 µg/L	5319.1 ppb	06:46:57
3	Mg 279.077 IEC†	46422.8	48654.1	499130 µg/L	499130 ppb	06:46:57
3	Na 589.592 Radial†	19118.2	19486.8	5188.0 µg/L	5188.0 ppb	06:46:57
3	Sr 421.552†	85516.2	89007.5	532.44 µg/L	532.44 ppb	06:46:51
3	Sc 361.383	1811735.0	1811735.0	91.666 %		06:48:05
3	Y 371.029	1132696.4	1132696.4	90.680 %		06:48:05
3	Ag 328.068†	25668.8	28095.2	269.23 µg/L	269.23 ppb	06:48:05
3	As 188.979†	222.9	245.9	520.68 µg/L	520.68 ppb	06:48:25
3	B 249.677†	13092.4	13912.8	559.48 µg/L	559.48 ppb	06:48:05
3	Ba 233.527†	17396.8	19002.5	531.75 µg/L	531.75 ppb	06:48:05
3	Be 313.107†	348353.7	376191.6	252.90 µg/L	252.90 ppb	06:48:05
3	Cd 226.502†	16486.0	18110.2	491.86 µg/L	491.86 ppb	06:48:05
3	Co 228.616†	8022.7	8801.5	467.50 µg/L	467.50 ppb	06:48:25
3	Cr 267.716†	21033.7	23048.2	516.77 µg/L	516.77 ppb	06:48:05
3	Cu 324.752†	73826.0	76638.1	588.67 µg/L	588.67 ppb	06:48:05
3	Mn 257.610†	128552.6	140388.2	503.22 µg/L	503.22 ppb	06:48:05
3	Mo 202.031†	3855.3	4193.3	515.31 µg/L	515.31 ppb	06:48:25
3	Ni 231.604†	7361.0	7698.9	468.10 µg/L	468.10 ppb	06:48:25
3	P 214.914†	1298.5	1196.7	2697.1 µg/L	2697.1 ppb	06:48:25
3	Pb 220.353†	1653.8	1743.0	510.19 µg/L	510.19 ppb	06:48:25
3	S 181.975 Axial†	522.5	546.9	3040.3 µg/L	3040.3 ppb	06:48:25
3	Sb 206.836†	532.9	557.3	549.27 µg/L	549.27 ppb	06:48:25
3	Se 196.026†	1159.9	1257.4	2555.9 µg/L	2555.9 ppb	06:48:25
3	SiO2†	54969.6	57577.9	11756 µg/L	11756 ppb	06:48:05
3	Si 251.611†	62233.7	67609.4	5476.7 µg/L	5476.7 ppb	06:48:05
3	Sn 189.927†	571.9	600.5	560.43 µg/L	560.43 ppb	06:48:25
3	Ti 334.940†	213290.8	231979.0	529.17 µg/L	529.17 ppb	06:48:05
3	Tl 190.801†	298.2	349.8	502.62 µg/L	502.62 ppb	06:48:25
3	U 409.014†	5350.4	6023.1	503.18 µg/L	503.18 ppb	06:48:05
3	V 292.402†	40513.0	44311.7	549.06 µg/L	549.06 ppb	06:48:05
3	Zn 213.857†	18210.1	19233.5	500.25 µg/L	500.25 ppb	06:48:05

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1818167.4	91.991 %	0.6072			0.66%
Sc RADIAL	74890.9	95.4 %	0.12			0.12%
Y 371.029	1136424.3	90.979 %	0.5838			0.64%
Ag 328.068†	27936.4	267.74 µg/L	1.301	267.74 ppb	1.301	0.49%
QC value within limits for Ag 328.068 Recovery = 107.09%						
Al 396.153Radial†	805759.7	521850 µg/L	4754.8	521850 ppb	4754.8	0.91%
QC value within limits for Al 396.153Radial Recovery = 104.37%						
As 188.979†	245.9	520.49 µg/L	2.145	520.49 ppb	2.145	0.41%
QC value within limits for As 188.979 Recovery = 104.10%						
B 249.677†	13875.2	558.02 µg/L	1.540	558.02 ppb	1.540	0.28%
QC value within limits for B 249.677 Recovery = 111.60%						
Ba 233.527†	18954.4	530.40 µg/L	1.187	530.40 ppb	1.187	0.22%
QC value within limits for Ba 233.527 Recovery = 106.08%						
Be 313.107†	374992.6	252.09 µg/L	0.699	252.09 ppb	0.699	0.28%
QC value within limits for Be 313.107 Recovery = 100.84%						
Ca 317.933Radial†	683277.9	492330 µg/L	5145.2	492330 ppb	5145.2	1.05%
QC value within limits for Ca 317.933Radial Recovery = 98.47%						
Cd 226.502†	18037.2	489.86 µg/L	1.745	489.86 ppb	1.745	0.36%
QC value within limits for Cd 226.502 Recovery = 97.97%						
Co 228.616†	8770.6	465.86 µg/L	2.925	465.86 ppb	2.925	0.63%

QC value within limits for Co 228.616	Recovery = 93.17%			
Cr 267.716†	22969.3	515.00 µg/L	1.548	515.00 ppb
QC value within limits for Cr 267.716	Recovery = 103.00%			
Cu 324.752†	76301.9	586.12 µg/L	2.653	586.12 ppb
QC value within limits for Cu 324.752	Recovery = 117.22%			
Fe 238.204 Radial†	14476.8	191710 µg/L	941.9	191710 ppb
QC value within limits for Fe 238.204 Radial	Recovery = 95.85%			
K 766.490 Radial†	8408.1	5304.7 µg/L	12.42	5304.7 ppb
QC value within limits for K 766.490 Radial	Recovery = 106.09%			
Mg 279.077 IEC†	48541.8	497980 µg/L	1514.2	497980 ppb
QC value within limits for Mg 279.077 IEC	Recovery = 99.60%			
Mn 257.610†	139903.9	501.46 µg/L	1.539	501.46 ppb
QC value within limits for Mn 257.610	Recovery = 100.29%			
Mo 202.031†	4164.0	511.74 µg/L	5.082	511.74 ppb
QC value within limits for Mo 202.031	Recovery = 102.35%			
Na 589.592 Radial†	19415.2	5169.0 µg/L	19.14	5169.0 ppb
QC value within limits for Na 589.592 Radial	Recovery = 103.38%			
Ni 231.604†	7685.5	467.28 µg/L	2.892	467.28 ppb
QC value within limits for Ni 231.604	Recovery = 93.46%			
P 214.914†	1200.3	2706.5 µg/L	22.63	2706.5 ppb
QC value within limits for P 214.914	Recovery = 108.26%			
Pb 220.353†	1729.3	506.47 µg/L	5.545	506.47 ppb
QC value within limits for Pb 220.353	Recovery = 101.29%			
S 181.975 Axial†	544.2	3025.2 µg/L	33.36	3025.2 ppb
QC value greater than the upper limit for S 181.975 Axial	Recovery = 121.01%			
Sb 206.836†	543.9	534.90 µg/L	13.485	534.90 ppb
QC value within limits for Sb 206.836	Recovery = 106.98%			
Se 196.026†	1250.4	2543.8 µg/L	11.48	2543.8 ppb
QC value within limits for Se 196.026	Recovery = 101.75%			
SiO2†	57357.1	11711 µg/L	39.8	11711 ppb
QC value within limits for SiO2	Recovery = 109.50%			
Si 251.611†	67403.5	5460.0 µg/L	15.10	5460.0 ppb
QC value within limits for Si 251.611	Recovery = 109.20%			
Sn 189.927†	587.6	553.31 µg/L	6.172	553.31 ppb
QC value within limits for Sn 189.927	Recovery = 110.66%			
Sr 421.552†	89330.5	534.37 µg/L	5.032	534.37 ppb
QC value within limits for Sr 421.552	Recovery = 106.87%			
Ti 334.940†	231372.4	527.82 µg/L	1.231	527.82 ppb
QC value within limits for Ti 334.940	Recovery = 105.56%			
Tl 190.801†	337.8	482.29 µg/L	17.751	482.29 ppb
QC value within limits for Tl 190.801	Recovery = 96.46%			
U 409.014†	6014.3	502.32 µg/L	2.548	502.32 ppb
QC value within limits for U 409.014	Recovery = 100.46%			
V 292.402†	44081.9	546.23 µg/L	2.451	546.23 ppb
QC value within limits for V 292.402	Recovery = 109.25%			
Zn 213.857†	19171.2	498.60 µg/L	1.791	498.60 ppb
QC value within limits for Zn 213.857	Recovery = 99.72%			

QC Failed. Continue with analysis.

Sequence No.: 11

Sample ID: LR1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 105

Date Collected: 1/29/2010 06:48:35

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74780.8	74780.8	95.3	%		06:49:15
1	Al 396.153Radial†	763756.8	801571.8	519150	µg/L	519150 ppb	06:49:10
1	Ca 317.933Radial†	648687.8	680533.2	490360	µg/L	490360 ppb	06:49:10
1	Fe 238.204 Radial†	33775.9	35430.6	469160	µg/L	469160 ppb	06:49:15
1	K 766.490 Radial†	242.6	-144.1	-90.915	µg/L	-90.915 ppb	06:49:15
1	Mg 279.077 IEC†	46087.2	48359.1	495800	µg/L	495800 ppb	06:49:15
1	Na 589.592 Radial†	1774554.1	1861793.2	495670	µg/L	495670 ppb	06:49:10
1	Sr 421.552†	1476.2	915.3	5.4750	µg/L	5.4750 ppb	06:49:15
1	Sc 361.383	1811566.7	1811566.7	91.657	%		06:49:50
1	Y 371.029	1125478.5	1125478.5	90.102	%		06:49:50
1	Ag 328.068†	-4124.1	-4406.9	-10.469	µg/L	-10.469 ppb	06:49:50
1	As 188.979†	-14.1	-12.7	-25.901	µg/L	-25.901 ppb	06:50:11
1	B 249.677†	5896.9	6063.7	42.419	µg/L	42.419 ppb	06:49:50
1	Ba 233.527†	482.2	550.1	15.297	µg/L	15.297 ppb	06:50:11
1	Be 313.107†	-1125.3	-5061.5	-3.4186	µg/L	-3.4186 ppb	06:49:50
1	Cd 226.502†	1780.5	2067.8	5.5699	µg/L	5.5699 ppb	06:49:50
1	Co 228.616†	103.9	162.7	8.5549	µg/L	8.5549 ppb	06:50:11
1	Cr 267.716†	244.3	368.7	8.2372	µg/L	8.2372 ppb	06:50:11
1	Cu 324.752†	-4777.0	-9111.8	-1.5973	µg/L	-1.5973 ppb	06:49:50
1	Mn 257.610†	-13543.0	-14627.8	-9.3024	µg/L	-9.3024 ppb	06:49:50
1	Mo 202.031†	-210.9	-242.7	-11.575	µg/L	-11.575 ppb	06:50:11
1	Ni 231.604†	260.0	-47.8	3.1946	µg/L	3.1946 ppb	06:50:11
1	P 214.914†	407.4	224.7	289.68	µg/L	289.68 ppb	06:50:11
1	Pb 220.353†	73.2	18.7	0.8948	µg/L	0.8948 ppb	06:50:11
1	S 181.975 Axial†	60.0	42.3	235.08	µg/L	235.08 ppb	06:50:11
1	Sb 206.836†	63.5	45.3	4.6321	µg/L	4.6321 ppb	06:50:11
1	Se 196.026†	-1121.5	-1231.5	-80.772	µg/L	-80.772 ppb	06:50:11
1	SiO2†	1640.3	-599.8	-122.46	µg/L	-122.46 ppb	06:50:11
1	Si 251.611†	-292.1	-601.1	-48.690	µg/L	-48.690 ppb	06:50:11
1	Sn 189.927†	-379.2	-437.2	0.4313	µg/L	0.4313 ppb	06:50:11
1	Ti 334.940†	13627.4	14163.9	2.8767	µg/L	2.8767 ppb	06:49:50
1	Tl 190.801†	7.2	32.4	-26.494	µg/L	-26.494 ppb	06:50:11
1	U 409.014†	143175.3	156393.2	14441	µg/L	14441 ppb	06:49:50
1	V 292.402†	-2976.8	-3132.4	2.0701	µg/L	2.0701 ppb	06:49:50
1	Zn 213.857†	3082.1	2730.4	26.448	µg/L	26.448 ppb	06:50:11
2	Sc RADIAL	74865.0	74865.0	95.4	%		06:49:27
2	Al 396.153Radial†	763291.8	800182.6	518250	µg/L	518250 ppb	06:49:22
2	Ca 317.933Radial†	647106.8	678110.0	488610	µg/L	488610 ppb	06:49:22
2	Fe 238.204 Radial†	34069.9	35698.9	472710	µg/L	472710 ppb	06:49:27
2	K 766.490 Radial†	257.9	-128.4	-80.993	µg/L	-80.993 ppb	06:49:27
2	Mg 279.077 IEC†	46498.5	48735.9	499660	µg/L	499660 ppb	06:49:27
2	Na 589.592 Radial†	1772685.4	1857739.1	494590	µg/L	494590 ppb	06:49:22
2	Sr 421.552†	1442.0	877.6	5.2500	µg/L	5.2500 ppb	06:49:27
2	Sc 361.383	1810730.8	1810730.8	91.615	%		06:50:18
2	Y 371.029	1125386.0	1125386.0	90.095	%		06:50:18
2	Ag 328.068†	-4219.8	-4513.4	-11.209	µg/L	-11.209 ppb	06:50:18
2	As 188.979†	-12.3	-10.7	-21.162	µg/L	-21.162 ppb	06:50:38
2	B 249.677†	5924.9	6097.3	42.157	µg/L	42.157 ppb	06:50:18
2	Ba 233.527†	484.1	552.4	15.362	µg/L	15.362 ppb	06:50:38
2	Be 313.107†	-1033.1	-4961.4	-3.3519	µg/L	-3.3519 ppb	06:50:18
2	Cd 226.502†	1765.4	2052.2	4.7257	µg/L	4.7257 ppb	06:50:18
2	Co 228.616†	134.7	196.3	10.341	µg/L	10.341 ppb	06:50:38
2	Cr 267.716†	223.2	345.8	7.7232	µg/L	7.7232 ppb	06:50:38
2	Cu 324.752†	-4821.0	-9162.2	-1.4730	µg/L	-1.4730 ppb	06:50:18
2	Mn 257.610†	-13519.9	-14609.4	-8.9192	µg/L	-8.9192 ppb	06:50:18
2	Mo 202.031†	-225.7	-258.9	-13.406	µg/L	-13.406 ppb	06:50:38
2	Ni 231.604†	243.9	-65.2	2.1834	µg/L	2.1834 ppb	06:50:38
2	P 214.914†	389.9	205.8	243.06	µg/L	243.06 ppb	06:50:38
2	Pb 220.353†	75.6	21.3	1.3442	µg/L	1.3442 ppb	06:50:38

2	S 181.975 Axial†	54.0	35.8	199.11 µg/L	199.11 ppb	06:50:38
2	Sb 206.836†	46.6	26.8	-14.760 µg/L	-14.760 ppb	06:50:38
2	Se 196.026†	-1091.0	-1198.8	-19.322 µg/L	-19.322 ppb	06:50:38
2	SiO2†	1643.0	-596.0	-121.69 µg/L	-121.69 ppb	06:50:38
2	Si 251.611†	-337.3	-650.6	-52.700 µg/L	-52.700 ppb	06:50:38
2	Sn 189.927†	-375.7	-433.6	3.1545 µg/L	3.1545 ppb	06:50:38
2	Ti 334.940†	14291.1	14895.2	4.3110 µg/L	4.3110 ppb	06:50:18
2	Tl 190.801†	14.2	40.0	-13.627 µg/L	-13.627 ppb	06:50:38
2	U 409.014†	143959.3	157321.2	14527 µg/L	14527 ppb	06:50:18
2	V 292.402†	-3002.6	-3162.1	1.9750 µg/L	1.9750 ppb	06:50:18
2	Zn 213.857†	3071.1	2719.9	25.768 µg/L	25.768 ppb	06:50:38
3	Sc RADIAL	74475.6	74475.6	94.9 %		06:49:39
3	Al 396.153Radial†	761774.5	802768.2	519930 µg/L	519930 ppb	06:49:34
3	Ca 317.933Radial†	645404.8	679864.0	489870 µg/L	489870 ppb	06:49:34
3	Fe 238.204 Radial†	33791.6	35592.4	471300 µg/L	471300 ppb	06:49:39
3	K 766.490 Radial†	200.7	-187.2	-118.14 µg/L	-118.14 ppb	06:49:39
3	Mg 279.077 IEC†	46185.5	48661.0	498890 µg/L	498890 ppb	06:49:39
3	Na 589.592 Radial†	1771468.1	1866174.5	496840 µg/L	496840 ppb	06:49:34
3	Sr 421.552†	1422.7	865.2	5.1755 µg/L	5.1755 ppb	06:49:39
3	Sc 361.383	1804407.4	1804407.4	91.295 %		06:50:45
3	Y 371.029	1121643.5	1121643.5	89.795 %		06:50:45
3	Ag 328.068†	-4167.8	-4472.6	-10.933 µg/L	-10.933 ppb	06:50:45
3	As 188.979†	-11.8	-10.2	-20.205 µg/L	-20.205 ppb	06:51:06
3	B 249.677†	5967.4	6166.4	46.169 µg/L	46.169 ppb	06:50:45
3	Ba 233.527†	474.1	543.3	15.106 µg/L	15.106 ppb	06:51:06
3	Be 313.107†	-1103.9	-5042.9	-3.4076 µg/L	-3.4076 ppb	06:50:45
3	Cd 226.502†	1769.7	2063.8	5.2139 µg/L	5.2139 ppb	06:50:45
3	Co 228.616†	134.6	196.7	10.356 µg/L	10.356 ppb	06:51:06
3	Cr 267.716†	240.2	365.3	8.1609 µg/L	8.1609 ppb	06:51:06
3	Cu 324.752†	-4904.6	-9272.2	-2.4756 µg/L	-2.4756 ppb	06:50:45
3	Mn 257.610†	-13593.4	-14741.6	-9.5448 µg/L	-9.5448 ppb	06:50:45
3	Mo 202.031†	-224.1	-258.1	-13.352 µg/L	-13.352 ppb	06:51:06
3	Ni 231.604†	277.7	-27.2	4.4686 µg/L	4.4686 ppb	06:51:06
3	P 214.914†	389.2	206.5	246.44 µg/L	246.44 ppb	06:51:06
3	Pb 220.353†	75.0	21.0	1.2965 µg/L	1.2965 ppb	06:51:06
3	S 181.975 Axial†	72.1	55.8	310.39 µg/L	310.39 ppb	06:51:06
3	Sb 206.836†	63.7	45.7	5.1408 µg/L	5.1408 ppb	06:51:06
3	Se 196.026†	-1109.8	-1223.6	-61.666 µg/L	-61.666 ppb	06:51:06
3	SiO2†	1648.3	-583.9	-119.23 µg/L	-119.23 ppb	06:51:06
3	Si 251.611†	-334.3	-648.7	-52.544 µg/L	-52.544 ppb	06:51:06
3	Sn 189.927†	-369.6	-428.2	6.1554 µg/L	6.1554 ppb	06:51:06
3	Ti 334.940†	15027.1	15756.1	6.4730 µg/L	6.4730 ppb	06:50:45
3	Tl 190.801†	14.1	40.0	-13.697 µg/L	-13.697 ppb	06:51:06
3	U 409.014†	144347.5	158297.0	14618 µg/L	14618 ppb	06:50:45
3	V 292.402†	-3032.8	-3206.7	1.4594 µg/L	1.4594 ppb	06:50:45
3	Zn 213.857†	3090.3	2752.7	26.792 µg/L	26.792 ppb	06:51:06

Mean Data: LRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1808901.6	91.523 %	0.1981			0.22%
Sc RADIAL	74707.1	95.2 %	0.26			0.27%
Y 371.029	1124169.3	89.998 %	0.1752			0.19%
Ag 328.068†	-4464.3	-10.870 µg/L	0.3738	-10.870 ppb	0.3738	3.44%
Al 396.153Radial†	801507.5	519110 µg/L	838.1	519110 ppb	838.1	0.16%
QC value within limits for Al 396.153Radial Recovery = 103.82%						
As 188.979†	-11.2	-22.423 µg/L	3.0499	-22.423 ppb	3.0499	13.60%
B 249.677†	6109.1	43.582 µg/L	2.2445	43.582 ppb	2.2445	5.15%
Ba 233.527†	548.6	15.255 µg/L	0.1330	15.255 ppb	0.1330	0.87%
Be 313.107†	-5021.9	-3.3927 µg/L	0.03574	-3.3927 ppb	0.03574	1.05%
Ca 317.933Radial†	679502.4	489610 µg/L	901.7	489610 ppb	901.7	0.18%
QC value within limits for Ca 317.933Radial Recovery = 97.92%						
Cd 226.502†	2061.3	5.1699 µg/L	0.42382	5.1699 ppb	0.42382	8.20%
Co 228.616†	185.2	9.7509 µg/L	1.03582	9.7509 ppb	1.03582	10.62%
Cr 267.716†	359.9	8.0404 µg/L	0.27735	8.0404 ppb	0.27735	3.45%
Cu 324.752†	-9182.0	-1.8486 µg/L	0.54649	-1.8486 ppb	0.54649	29.56%
Fe 238.204 Radial†	35573.9	471060 µg/L	1788.7	471060 ppb	1788.7	0.38%
QC value within limits for Fe 238.204 Radial Recovery = 94.21%						
K 766.490 Radial†	-153.2	-96.681 µg/L	19.2309	-96.681 ppb	19.2309	19.89%
Mg 279.077 IEC†	48585.3	498120 µg/L	2045.3	498120 ppb	2045.3	0.41%

QC value within limits for Mg 279.077 IEC Recovery = 99.62%

Mn 257.610†	-14659.6	-9.2555 µg/L	0.31540	-9.2555 ppb	0.31540	3.41%
Mo 202.031†	-253.2	-12.778 µg/L	1.0419	-12.778 ppb	1.0419	8.15%
Na 589.592 Radial†	1861902.3	495700 µg/L	1123.2	495700 ppb	1123.2	0.23%

QC value within limits for Na 589.592 Radial Recovery = 99.14%

Ni 231.604†	-46.7	3.2822 µg/L	1.14508	3.2822 ppb	1.14508	34.89%
P 214.914†	212.3	259.73 µg/L	25.997	259.73 ppb	25.997	10.01%
Pb 220.353†	20.4	1.1785 µg/L	0.24686	1.1785 ppb	0.24686	20.95%
S 181.975 Axial†	44.6	248.19 µg/L	56.787	248.19 ppb	56.787	22.88%
Sb 206.836†	39.3	-1.6624 µg/L	11.34577	-1.6624 ppb	11.34577	682.50%
Se 196.026†	-1218.0	-53.920 µg/L	31.4488	-53.920 ppb	31.4488	58.33%
SiO2†	-593.2	-121.13 µg/L	1.691	-121.13 ppb	1.691	1.40%
Si 251.611†	-633.4	-51.312 µg/L	2.2715	-51.312 ppb	2.2715	4.43%
Sn 189.927†	-433.0	3.2471 µg/L	2.86317	3.2471 ppb	2.86317	88.18%
Sr 421.552†	886.0	5.3002 µg/L	0.15590	5.3002 ppb	0.15590	2.94%
Ti 334.940†	14938.4	4.5536 µg/L	1.81040	4.5536 ppb	1.81040	39.76%
Tl 190.801†	37.5	-17.939 µg/L	7.4086	-17.939 ppb	7.4086	41.30%
U 409.014†	157337.1	14529 µg/L	88.4	14529 ppb	88.4	0.61%

QC value within limits for U 409.014 Recovery = 96.86%

V 292.402†	-3167.1	1.8348 µg/L	0.32858	1.8348 ppb	0.32858	17.91%
Zn 213.857†	2734.3	26.336 µg/L	0.5209	26.336 ppb	0.5209	1.98%

All analyte(s) passed QC.

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 1/29/2010 06:51:16

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	77065.6	77065.6	98.2 %		06:51:58
1	Al 396.153Radial†	292.3	327.1	3.3367 µg/L	3.3367 ppb	06:51:58
1	Ca 317.933Radial†	318.3	77.0	55.474 µg/L	55.474 ppb	06:52:18
1	Fe 238.204 Radial†	-19.6	-36.3	-270.39 µg/L	-270.39 ppb	06:52:18
1	K 766.490 Radial†	490372.7	498976.8	314810 µg/L	314810 ppb	06:51:52
1	Mg 279.077 IEC†	-25.9	-34.5	-183.13 µg/L	-183.13 ppb	06:52:18
1	Na 589.592 Radial†	1829.3	1309.2	348.56 µg/L	348.56 ppb	06:51:58
1	Sr 421.552†	1674429.4	1704536.5	10196 µg/L	10196 ppb	06:51:52
1	Sc 361.383	1962801.1	1962801.1	99.309 %		06:53:50
1	Y 371.029	1230143.3	1230143.3	98.482 %		06:53:50
1	Ag 328.068†	-7188.6	-7146.0	4.5329 µg/L	4.5329 ppb	06:53:50
1	As 188.979†	4511.2	4545.3	9887.4 µg/L	9887.4 ppb	06:53:55
1	B 249.677†	105935.5	106302.4	5075.9 µg/L	5075.9 ppb	06:53:50
1	Ba 233.527†	478121.3	481471.2	13468 µg/L	13468 ppb	06:53:50
1	Be 313.107†	4397361.9	4424117.1	2972.8 µg/L	2972.8 ppb	06:53:39
1	Cd 226.502†	348359.7	350908.3	9952.5 µg/L	9952.5 ppb	06:53:50
1	Co 228.616†	184883.1	186218.5	9894.0 µg/L	9894.0 ppb	06:53:50
1	Cr 267.716†	1120265.5	1128160.4	25285 µg/L	25285 ppb	06:53:50
1	Cu 324.752†	2890397.7	2906604.0	21312 µg/L	21312 ppb	06:53:50
1	Mn 257.610†	2771028.8	2790452.5	9890.8 µg/L	9890.8 ppb	06:53:50
1	Mo 202.031†	83226.1	83792.5	10151 µg/L	10151 ppb	06:53:50
1	Ni 231.604†	165857.4	166679.7	10080 µg/L	10080 ppb	06:53:50
1	P 214.914†	8119.6	7956.3	16249 µg/L	16249 ppb	06:53:55
1	Pb 220.353†	92380.5	92962.0	26071 µg/L	26071 ppb	06:53:50
1	S 181.975 Axial†	9536.7	9579.9	53260 µg/L	53260 ppb	06:53:55
1	Sb 206.836†	9930.3	9975.3	10430 µg/L	10430 ppb	06:53:55
1	Se 196.026†	6767.1	6806.3	10229 µg/L	10229 ppb	06:53:55
1	SiO2†	502944.5	504053.7	102920 µg/L	102920 ppb	06:53:50
1	Si 251.611†	587130.6	590932.4	47868 µg/L	47868 ppb	06:53:50
1	Sn 189.927†	19539.2	19651.7	11077 µg/L	11077 ppb	06:53:55
1	Ti 334.940†	4209334.4	4237911.6	10244 µg/L	10244 ppb	06:53:39
1	Tl 190.801†	5935.6	6001.4	10091 µg/L	10091 ppb	06:53:55
1	U 409.014†	795.4	987.2	91.819 µg/L	91.819 ppb	06:53:50
1	V 292.402†	863819.5	869943.7	10604 µg/L	10604 ppb	06:53:50
1	Zn 213.857†	532190.9	535260.7	14967 µg/L	14967 ppb	06:53:50
2	Sc RADIAL	76960.2	76960.2	98.1 %		06:52:30
2	Al 396.153Radial†	312.8	348.5	22.133 µg/L	22.133 ppb	06:52:30
2	Ca 317.933Radial†	316.8	75.9	54.666 µg/L	54.666 ppb	06:52:50
2	Fe 238.204 Radial†	-18.7	-35.4	-263.08 µg/L	-263.08 ppb	06:52:50
2	K 766.490 Radial†	496745.8	506159.4	319340 µg/L	319340 ppb	06:52:24
2	Mg 279.077 IEC†	-22.1	-30.7	-148.39 µg/L	-148.39 ppb	06:52:50
2	Na 589.592 Radial†	1557.4	1034.5	275.41 µg/L	275.41 ppb	06:52:30
2	Sr 421.552†	1698938.4	1731864.0	10360 µg/L	10360 ppb	06:52:24
2	Sc 361.383	1982518.2	1982518.2	100.31 %		06:54:14
2	Y 371.029	1242163.2	1242163.2	99.444 %		06:54:14
2	Ag 328.068†	-7090.3	-6976.0	4.4474 µg/L	4.4474 ppb	06:54:14
2	As 188.979†	4367.1	4356.5	9476.2 µg/L	9476.2 ppb	06:54:20
2	B 249.677†	105005.2	104314.1	4980.7 µg/L	4980.7 ppb	06:54:14
2	Ba 233.527†	472823.0	471400.9	13186 µg/L	13186 ppb	06:54:14
2	Be 313.107†	4341654.7	4324542.2	2905.9 µg/L	2905.9 ppb	06:54:04
2	Cd 226.502†	344481.0	343552.7	9743.9 µg/L	9743.9 ppb	06:54:14
2	Co 228.616†	182422.3	181913.7	9665.3 µg/L	9665.3 ppb	06:54:14
2	Cr 267.716†	1103191.5	1099919.6	24652 µg/L	24652 ppb	06:54:14
2	Cu 324.752†	2845234.6	2832632.7	20770 µg/L	20770 ppb	06:54:14
2	Mn 257.610†	2734796.9	2726580.5	9664.4 µg/L	9664.4 ppb	06:54:14
2	Mo 202.031†	82073.7	81810.1	9910.9 µg/L	9910.9 ppb	06:54:14
2	Ni 231.604†	163687.8	162855.8	9849.1 µg/L	9849.1 ppb	06:54:14
2	P 214.914†	7822.2	7578.4	15428 µg/L	15428 ppb	06:54:20
2	Pb 220.353†	91432.3	91091.5	25547 µg/L	25547 ppb	06:54:14

2	S 181.975 Axial†	9279.4	9227.9	51303 µg/L	51303 ppb	06:54:20
2	Sb 206.836†	9614.8	9561.4	9995.7 µg/L	9995.7 ppb	06:54:20
2	Se 196.026†	6588.8	6560.7	9860.0 µg/L	9860.0 ppb	06:54:20
2	SiO2†	497707.6	493796.0	100820 µg/L	100820 ppb	06:54:14
2	Si 251.611†	580903.4	578844.3	46889 µg/L	46889 ppb	06:54:14
2	Sn 189.927†	18795.8	18714.9	10549 µg/L	10549 ppb	06:54:20
2	Ti 334.940†	4153305.5	4139899.0	10007 µg/L	10007 ppb	06:54:04
2	Tl 190.801†	5805.5	5812.3	9773.6 µg/L	9773.6 ppb	06:54:20
2	U 409.014†	825.5	1009.2	93.861 µg/L	93.861 ppb	06:54:14
2	V 292.402†	852022.4	849531.9	10355 µg/L	10355 ppb	06:54:14
2	Zn 213.857†	525348.3	523109.3	14628 µg/L	14628 ppb	06:54:14
3	Sc RADIAL	77519.2	77519.2	98.8 %		06:53:01
3	Al 396.153Radial†	395.1	429.5	95.898 µg/L	95.898 ppb	06:53:01
3	Ca 317.933Radial†	401.0	158.8	114.39 µg/L	114.39 ppb	06:53:22
3	Fe 238.204 Radial†	-18.7	-35.3	-283.75 µg/L	-283.75 ppb	06:53:22
3	K 766.490 Radial†	475994.2	481498.2	303780 µg/L	303780 ppb	06:52:56
3	Mg 279.077 IEC†	-15.1	-23.4	-90.914 µg/L	-90.914 ppb	06:53:22
3	Na 589.592 Radial†	1464.8	929.3	247.42 µg/L	247.42 ppb	06:53:01
3	Sr 421.552†	1623628.2	1643128.4	9829.1 µg/L	9829.1 ppb	06:52:56
3	Sc 361.383	1992712.7	1992712.7	100.82 %		06:54:39
3	Y 371.029	1248232.5	1248232.5	99.930 %		06:54:39
3	Ag 328.068†	-6369.3	-6224.8	3.9277 µg/L	3.9277 ppb	06:54:39
3	As 188.979†	4009.8	3979.8	8657.3 µg/L	8657.3 ppb	06:54:45
3	B 249.677†	97826.5	96658.4	4613.1 µg/L	4613.1 ppb	06:54:39
3	Ba 233.527†	428765.4	425291.2	11896 µg/L	11896 ppb	06:54:39
3	Be 313.107†	4087403.6	4050222.1	2721.5 µg/L	2721.5 ppb	06:54:29
3	Cd 226.502†	311837.7	309418.9	8775.7 µg/L	8775.7 ppb	06:54:39
3	Co 228.616†	163590.4	162305.0	8622.6 µg/L	8622.6 ppb	06:54:39
3	Cr 267.716†	969580.3	961772.0	21556 µg/L	21556 ppb	06:54:39
3	Cu 324.752†	2560933.8	2536140.1	18596 µg/L	18596 ppb	06:54:39
3	Mn 257.610†	2456079.8	2436189.3	8635.1 µg/L	8635.1 ppb	06:54:39
3	Mo 202.031†	73862.1	73246.9	8873.5 µg/L	8873.5 ppb	06:54:39
3	Ni 231.604†	146790.2	145261.2	8785.0 µg/L	8785.0 ppb	06:54:39
3	P 214.914†	7035.4	6758.2	13749 µg/L	13749 ppb	06:54:45
3	Pb 220.353†	83859.3	83113.9	23310 µg/L	23310 ppb	06:54:39
3	S 181.975 Axial†	8524.1	8431.4	46875 µg/L	46875 ppb	06:54:45
3	Sb 206.836†	8770.8	8675.3	9076.6 µg/L	9076.6 ppb	06:54:45
3	Se 196.026†	6034.6	5977.4	8983.2 µg/L	8983.2 ppb	06:54:45
3	SiO2†	458235.3	452107.3	92310 µg/L	92310 ppb	06:54:39
3	Si 251.611†	534935.9	530289.1	42956 µg/L	42956 ppb	06:54:39
3	Sn 189.927†	16656.0	16496.6	9298.6 µg/L	9298.6 ppb	06:54:45
3	Ti 334.940†	3913155.6	3880525.7	9380.5 µg/L	9380.5 ppb	06:54:29
3	Tl 190.801†	5445.0	5425.1	9122.8 µg/L	9122.8 ppb	06:54:45
3	U 409.014†	720.2	900.5	83.759 µg/L	83.759 ppb	06:54:39
3	V 292.402†	763681.1	757565.8	9233.5 µg/L	9233.5 ppb	06:54:39
3	Zn 213.857†	474042.1	469542.3	13130 µg/L	13130 ppb	06:54:39

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1979344.0	100.15 %	0.769			0.77%
Sc RADIAL	77181.7	98.3 %	0.38			0.38%
Y 371.029	1240179.7	99.285 %	0.7370			0.74%
Ag 328.068†	-6782.3	4.3027 µg/L	0.32755	4.3027 ppb	0.32755	7.61%
Al 396.153Radial†	368.4	40.456 µg/L	48.9253	40.456 ppb	48.9253	120.93%
As 188.979†	4293.9	9340.3 µg/L	626.21	9340.3 ppb	626.21	6.70%
QC value within limits for As 188.979 Recovery = 93.40%						
B 249.677†	102425.0	4889.9 µg/L	244.38	4889.9 ppb	244.38	5.00%
QC value within limits for B 249.677 Recovery = 97.80%						
Ba 233.527†	459387.8	12850 µg/L	838.0	12850 ppb	838.0	6.52%
QC value less than the lower limit for Ba 233.527 Recovery = 85.67%						
Be 313.107†	4266293.8	2866.7 µg/L	130.11	2866.7 ppb	130.11	4.54%
QC value within limits for Be 313.107 Recovery = 95.56%						
Ca 317.933Radial†	103.9	74.843 µg/L	34.2503	74.843 ppb	34.2503	45.76%
Cd 226.502†	334626.6	9490.7 µg/L	627.94	9490.7 ppb	627.94	6.62%
QC value within limits for Cd 226.502 Recovery = 94.91%						
Co 228.616†	176812.4	9394.0 µg/L	677.78	9394.0 ppb	677.78	7.22%
QC value within limits for Co 228.616 Recovery = 93.94%						
Cr 267.716†	1063284.0	23831 µg/L	1995.5	23831 ppb	1995.5	8.37%
QC value within limits for Cr 267.716 Recovery = 95.32%						

Cu 324.752†	2758458.9	20226 µg/L	1437.5	20226 ppb	1437.5	7.11%
QC value within limits for Cu 324.752 Recovery = 101.13%						
Fe 238.204 Radial†	-35.6	-272.40 µg/L	10.484	-272.40 ppb	10.484	3.85%
K 766.490 Radial†	495544.8	312640 µg/L	8002.3	312640 ppb	8002.3	2.56%
QC value within limits for K 766.490 Radial Recovery = 104.21%						
Mg 279.077 IEC†	-29.6	-140.81 µg/L	46.573	-140.81 ppb	46.573	33.07%
Mn 257.610†	2651074.1	9396.8 µg/L	669.27	9396.8 ppb	669.27	7.12%
QC value within limits for Mn 257.610 Recovery = 93.97%						
Mo 202.031†	79616.5	9645.2 µg/L	678.97	9645.2 ppb	678.97	7.04%
QC value within limits for Mo 202.031 Recovery = 96.45%						
Na 589.592 Radial†	1091.0	290.46 µg/L	52.222	290.46 ppb	52.222	17.98%
Ni 231.604†	158265.6	9571.5 µg/L	690.85	9571.5 ppb	690.85	7.22%
QC value within limits for Ni 231.604 Recovery = 95.72%						
P 214.914†	7430.9	15142 µg/L	1274.5	15142 ppb	1274.5	8.42%
QC value within limits for P 214.914 Recovery = 100.95%						
Pb 220.353†	89055.8	24976 µg/L	1466.7	24976 ppb	1466.7	5.87%
QC value within limits for Pb 220.353 Recovery = 99.90%						
S 181.975 Axial†	9079.7	50479 µg/L	3271.3	50479 ppb	3271.3	6.48%
QC value within limits for S 181.975 Axial Recovery = 100.96%						
Sb 206.836†	9404.0	9834.2 µg/L	691.15	9834.2 ppb	691.15	7.03%
QC value within limits for Sb 206.836 Recovery = 98.34%						
Se 196.026†	6448.1	9690.7 µg/L	639.92	9690.7 ppb	639.92	6.60%
QC value within limits for Se 196.026 Recovery = 96.91%						
SiO2†	483319.0	98682 µg/L	5617.4	98682 ppb	5617.4	5.69%
QC value within limits for SiO2 Recovery = 92.23%						
Si 251.611†	566688.6	45904 µg/L	2600.0	45904 ppb	2600.0	5.66%
QC value within limits for Si 251.611 Recovery = 91.81%						
Sn 189.927†	18287.7	10308 µg/L	913.3	10308 ppb	913.3	8.86%
QC value within limits for Sn 189.927 Recovery = 103.08%						
Sr 421.552†	1693176.3	10128 µg/L	271.9	10128 ppb	271.9	2.68%
QC value within limits for Sr 421.552 Recovery = 101.28%						
Ti 334.940†	4086112.1	9877.5 µg/L	446.40	9877.5 ppb	446.40	4.52%
QC value within limits for Ti 334.940 Recovery = 98.77%						
Tl 190.801†	5746.3	9662.4 µg/L	493.57	9662.4 ppb	493.57	5.11%
QC value within limits for Tl 190.801 Recovery = 96.62%						
U 409.014†	965.6	89.813 µg/L	5.3417	89.813 ppb	5.3417	5.95%
V 292.402†	825680.5	10064 µg/L	730.2	10064 ppb	730.2	7.25%
QC value within limits for V 292.402 Recovery = 100.64%						
Zn 213.857†	509304.1	14242 µg/L	977.6	14242 ppb	977.6	6.86%
QC value within limits for Zn 213.857 Recovery = 94.95%						
QC Failed. Continue with analysis.						

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Analysis Begun

Start Time: 1/29/2010 07:10:05

Plasma On Time: 1/25/2010 05:31:26

Logged In Analyst: optima

Technique: ICP Continuous

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

Sample Information File: C:\pe\optima1\Sample Information\012910.sif

Batch ID:

Results Data Set: 012910

Results Library: c:\pe\optima1\Results\Results.mdb

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Method Loaded

Method Name: Gen Eng fast_new Si

Method Last Saved: 1/29/2010 05:40:44

IEC File: 011510.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 1/29/2010 07:10:07

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	78460.5	78460.5	100.0 %		07:10:42
1	Al 396.153Radial†	7797.6	7829.1	5059.5 µg/L	5059.5 ppb	07:10:42
1	Ca 317.933Radial†	7291.2	7045.9	5076.9 µg/L	5076.9 ppb	07:10:42
1	Fe 238.204 Radial†	410.4	394.2	5231.0 µg/L	5231.0 ppb	07:11:02

1	K 766.490 Radial†	8680.9	8284.4	5226.6 µg/L	5226.6 ppb	07:10:42
1	Mg 279.077 IEC†	514.9	506.9	5205.9 µg/L	5205.9 ppb	07:11:02
1	Na 589.592 Radial†	38616.0	38072.1	10136 µg/L	10136 ppb	07:10:42
1	Sr 421.552†	87527.4	86915.6	519.92 µg/L	519.92 ppb	07:10:42
1	Sc 361.383	1978806.4	1978806.4	100.12 %		07:12:06
1	Y 371.029	1245705.5	1245705.5	99.727 %		07:12:06
1	Ag 328.068†	59341.3	59363.4	539.73 µg/L	539.73 ppb	07:12:11
1	As 188.979†	255.8	258.3	561.90 µg/L	561.90 ppb	07:12:32
1	B 249.677†	11582.1	11198.4	528.58 µg/L	528.58 ppb	07:12:11
1	Ba 233.527†	19247.7	19248.8	538.65 µg/L	538.65 ppb	07:12:11
1	Be 313.107†	796301.0	791520.9	532.36 µg/L	532.36 ppb	07:12:06
1	Cd 226.502†	18917.6	19020.4	538.86 µg/L	538.86 ppb	07:12:11
1	Co 228.616†	10146.5	10183.7	541.11 µg/L	541.11 ppb	07:12:11
1	Cr 267.716†	24165.2	24238.6	543.45 µg/L	543.45 ppb	07:12:11
1	Cu 324.752†	77809.0	73816.6	541.98 µg/L	541.98 ppb	07:12:11
1	Mn 257.610†	150718.3	150687.1	534.60 µg/L	534.60 ppb	07:12:06
1	Mo 202.031†	4492.1	4474.2	542.23 µg/L	542.23 ppb	07:12:32
1	Ni 231.604†	9290.3	8947.8	541.20 µg/L	541.20 ppb	07:12:11
1	P 214.914†	1412.1	1190.6	2692.2 µg/L	2692.2 ppb	07:12:32
1	Pb 220.353†	2034.8	1971.2	553.15 µg/L	553.15 ppb	07:12:32
1	S 181.975 Axial†	225.6	202.2	1124.1 µg/L	1124.1 ppb	07:12:32
1	Sb 206.836†	541.3	516.7	548.73 µg/L	548.73 ppb	07:12:32
1	Se 196.026†	372.6	364.2	567.18 µg/L	567.18 ppb	07:12:32
1	SiO2†	31162.4	28735.9	5867.2 µg/L	5867.2 ppb	07:12:11
1	Si 251.611†	34110.3	33787.4	2736.9 µg/L	2736.9 ppb	07:12:11
1	Sn 189.927†	1021.7	997.0	564.59 µg/L	564.59 ppb	07:12:32
1	Ti 334.940†	222867.7	221899.0	536.07 µg/L	536.07 ppb	07:12:06
1	Tl 190.801†	301.2	325.4	546.51 µg/L	546.51 ppb	07:12:32
1	U 409.014†	5593.1	5772.7	535.51 µg/L	535.51 ppb	07:12:11
1	V 292.402†	44947.7	45009.6	547.84 µg/L	547.84 ppb	07:12:11
1	Zn 213.857†	19928.4	19272.4	537.94 µg/L	537.94 ppb	07:12:11
2	Sc RADIAL	78520.4	78520.4	100 %		07:11:08
2	Al 396.153Radial†	7812.6	7838.1	5065.4 µg/L	5065.4 ppb	07:11:08
2	Ca 317.933Radial†	7292.7	7041.8	5074.0 µg/L	5074.0 ppb	07:11:08
2	Fe 238.204 Radial†	405.1	388.6	5157.0 µg/L	5157.0 ppb	07:11:28
2	K 766.490 Radial†	8719.5	8316.4	5246.8 µg/L	5246.8 ppb	07:11:08
2	Mg 279.077 IEC†	518.3	509.9	5236.2 µg/L	5236.2 ppb	07:11:28
2	Na 589.592 Radial†	38594.6	38021.3	10123 µg/L	10123 ppb	07:11:08
2	Sr 421.552†	87714.4	87035.8	520.64 µg/L	520.64 ppb	07:11:08
2	Sc 361.383	1968243.0	1968243.0	99.585 %		07:12:39
2	Y 371.029	1238826.5	1238826.5	99.177 %		07:12:39
2	Ag 328.068†	59023.1	59361.9	539.70 µg/L	539.70 ppb	07:12:44
2	As 188.979†	250.3	254.0	552.71 µg/L	552.71 ppb	07:13:05
2	B 249.677†	11453.5	11131.3	525.43 µg/L	525.43 ppb	07:12:44
2	Ba 233.527†	19096.2	19199.9	537.28 µg/L	537.28 ppb	07:12:44
2	Be 313.107†	794007.8	793486.7	533.68 µg/L	533.68 ppb	07:12:39
2	Cd 226.502†	18755.9	18959.5	537.14 µg/L	537.14 ppb	07:12:44
2	Co 228.616†	10052.9	10144.1	539.00 µg/L	539.00 ppb	07:12:44
2	Cr 267.716†	23998.3	24200.6	542.59 µg/L	542.59 ppb	07:12:44
2	Cu 324.752†	77334.9	73757.6	541.53 µg/L	541.53 ppb	07:12:44
2	Mn 257.610†	150282.7	151057.6	535.91 µg/L	535.91 ppb	07:12:39
2	Mo 202.031†	4466.5	4472.5	542.02 µg/L	542.02 ppb	07:13:05
2	Ni 231.604†	9201.8	8908.8	538.84 µg/L	538.84 ppb	07:12:44
2	P 214.914†	1410.9	1197.0	2707.0 µg/L	2707.0 ppb	07:13:05
2	Pb 220.353†	2030.4	1977.7	554.98 µg/L	554.98 ppb	07:13:05
2	S 181.975 Axial†	219.0	196.8	1094.1 µg/L	1094.1 ppb	07:13:05
2	Sb 206.836†	535.3	513.5	545.37 µg/L	545.37 ppb	07:13:05
2	Se 196.026†	374.3	367.9	572.52 µg/L	572.52 ppb	07:13:05
2	SiO2†	30891.9	28631.4	5845.8 µg/L	5845.8 ppb	07:12:44
2	Si 251.611†	33839.7	33698.5	2729.7 µg/L	2729.7 ppb	07:12:44
2	Sn 189.927†	1016.2	996.9	564.54 µg/L	564.54 ppb	07:13:05
2	Ti 334.940†	222369.5	222593.4	537.75 µg/L	537.75 ppb	07:12:39
2	Tl 190.801†	300.8	326.6	548.62 µg/L	548.62 ppb	07:13:05
2	U 409.014†	5570.3	5779.8	536.19 µg/L	536.19 ppb	07:12:44
2	V 292.402†	44585.1	44886.5	546.35 µg/L	546.35 ppb	07:12:44
2	Zn 213.857†	19795.6	19245.9	537.21 µg/L	537.21 ppb	07:12:44
3	Sc RADIAL	78784.5	78784.5	100 %		07:11:34
3	Al 396.153Radial†	7827.6	7826.9	5059.9 µg/L	5059.9 ppb	07:11:34
3	Ca 317.933Radial†	7341.1	7065.6	5091.1 µg/L	5091.1 ppb	07:11:34
3	Fe 238.204 Radial†	405.7	387.8	5145.0 µg/L	5145.0 ppb	07:11:54
3	K 766.490 Radial†	8707.2	8274.9	5220.7 µg/L	5220.7 ppb	07:11:34

3	Mg 279.077 IEC†	514.2	504.0	5174.9 µg/L	5174.9 ppb	07:11:54
3	Na 589.592 Radial†	38810.2	38106.7	10145 µg/L	10145 ppb	07:11:34
3	Sr 421.552†	88178.2	87203.8	521.65 µg/L	521.65 ppb	07:11:34
3	Sc 361.383	1976144.1	1976144.1	99.984 %		07:13:12
3	Y 371.029	1244071.7	1244071.7	99.597 %		07:13:12
3	Ag 328.068†	56791.1	56892.6	517.11 µg/L	517.11 ppb	07:13:18
3	As 188.979†	214.2	216.9	472.02 µg/L	472.02 ppb	07:13:38
3	B 249.677†	10969.1	10600.9	500.23 µg/L	500.23 ppb	07:13:18
3	Ba 233.527†	17818.2	17844.9	499.35 µg/L	499.35 ppb	07:13:18
3	Be 313.107†	755803.5	752088.6	505.84 µg/L	505.84 ppb	07:13:12
3	Cd 226.502†	17452.8	17580.8	498.04 µg/L	498.04 ppb	07:13:18
3	Co 228.616†	9302.4	9353.2	496.91 µg/L	496.91 ppb	07:13:18
3	Cr 267.716†	21611.7	21717.3	486.92 µg/L	486.92 ppb	07:13:18
3	Cu 324.752†	71865.9	67977.2	499.15 µg/L	499.15 ppb	07:13:18
3	Mn 257.610†	143205.0	143375.4	508.68 µg/L	508.68 ppb	07:13:12
3	Mo 202.031†	3748.7	3736.7	452.88 µg/L	452.88 ppb	07:13:38
3	Ni 231.604†	8527.7	8197.6	495.82 µg/L	495.82 ppb	07:13:18
3	P 214.914†	1230.1	1010.4	2280.0 µg/L	2280.0 ppb	07:13:38
3	Pb 220.353†	1764.0	1703.1	477.82 µg/L	477.82 ppb	07:13:38
3	S 181.975 Axial†	197.8	174.7	971.03 µg/L	971.03 ppb	07:13:38
3	Sb 206.836†	473.0	449.1	476.40 µg/L	476.40 ppb	07:13:38
3	Se 196.026†	319.0	311.1	487.05 µg/L	487.05 ppb	07:13:38
3	SiO2†	29289.0	26904.2	5493.2 µg/L	5493.2 ppb	07:13:18
3	Si 251.611†	31956.9	31679.5	2566.2 µg/L	2566.2 ppb	07:13:18
3	Sn 189.927†	842.3	819.0	464.22 µg/L	464.22 ppb	07:13:38
3	Ti 334.940†	210554.7	209883.9	507.03 µg/L	507.03 ppb	07:13:12
3	Tl 190.801†	277.1	301.7	506.82 µg/L	506.82 ppb	07:13:38
3	U 409.014†	4981.6	5168.6	479.38 µg/L	479.38 ppb	07:13:18
3	V 292.402†	40917.8	41039.5	499.19 µg/L	499.19 ppb	07:13:18
3	Zn 213.857†	18332.6	17703.2	494.11 µg/L	494.11 ppb	07:13:18

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1974397.8	99.896 %	0.2780			0.28%
Sc RADIAL	78588.5	100 %	0.2			0.22%
Y 371.029	1242867.9	99.500 %	0.2877			0.29%
Ag 328.068†	58539.3	532.18 µg/L	13.053	532.18 ppb	13.053	2.45%
QC value within limits for Ag 328.068 Recovery = 106.44%						
Al 396.153Radial†	7831.4	5061.6 µg/L	3.26	5061.6 ppb	3.26	0.06%
QC value within limits for Al 396.153Radial Recovery = 101.23%						
As 188.979†	243.1	528.88 µg/L	49.456	528.88 ppb	49.456	9.35%
QC value within limits for As 188.979 Recovery = 105.78%						
B 249.677†	10976.9	518.08 µg/L	15.541	518.08 ppb	15.541	3.00%
QC value within limits for B 249.677 Recovery = 103.62%						
Ba 233.527†	18764.5	525.09 µg/L	22.305	525.09 ppb	22.305	4.25%
QC value within limits for Ba 233.527 Recovery = 105.02%						
Be 313.107†	779032.1	523.96 µg/L	15.707	523.96 ppb	15.707	3.00%
QC value within limits for Be 313.107 Recovery = 104.79%						
Ca 317.933Radial†	7051.1	5080.6 µg/L	9.15	5080.6 ppb	9.15	0.18%
QC value within limits for Ca 317.933Radial Recovery = 101.61%						
Cd 226.502†	18520.2	524.68 µg/L	23.089	524.68 ppb	23.089	4.40%
QC value within limits for Cd 226.502 Recovery = 104.94%						
Co 228.616†	9893.7	525.68 µg/L	24.933	525.68 ppb	24.933	4.74%
QC value within limits for Co 228.616 Recovery = 105.14%						
Cr 267.716†	23385.5	524.32 µg/L	32.391	524.32 ppb	32.391	6.18%
QC value within limits for Cr 267.716 Recovery = 104.86%						
Cu 324.752†	71850.5	527.55 µg/L	24.600	527.55 ppb	24.600	4.66%
QC value within limits for Cu 324.752 Recovery = 105.51%						
Fe 238.204 Radial†	390.2	5177.7 µg/L	46.57	5177.7 ppb	46.57	0.90%
QC value within limits for Fe 238.204 Radial Recovery = 103.55%						
K 766.490 Radial†	8291.9	5231.4 µg/L	13.71	5231.4 ppb	13.71	0.26%
QC value within limits for K 766.490 Radial Recovery = 104.63%						
Mg 279.077 IEC†	506.9	5205.6 µg/L	30.69	5205.6 ppb	30.69	0.59%
QC value within limits for Mg 279.077 IEC Recovery = 104.11%						
Mn 257.610†	148373.4	526.39 µg/L	15.358	526.39 ppb	15.358	2.92%
QC value within limits for Mn 257.610 Recovery = 105.28%						
Mo 202.031†	4227.8	512.38 µg/L	51.525	512.38 ppb	51.525	10.06%
QC value within limits for Mo 202.031 Recovery = 102.48%						
Na 589.592 Radial†	38066.7	10135 µg/L	11.4	10135 ppb	11.4	0.11%

QC value within limits for Na 589.592 Radial Recovery = 101.35%

Ni 231.604†	8684.7	525.29 µg/L	25.542	525.29 ppb	25.542	4.86%
QC value within limits for Ni 231.604 Recovery = 105.06%						
P 214.914†	1132.7	2559.7 µg/L	242.36	2559.7 ppb	242.36	9.47%
QC value within limits for P 214.914 Recovery = 102.39%						
Pb 220.353†	1884.0	528.65 µg/L	44.032	528.65 ppb	44.032	8.33%
QC value within limits for Pb 220.353 Recovery = 105.73%						
S 181.975 Axial†	191.2	1063.1 µg/L	81.12	1063.1 ppb	81.12	7.63%
QC value within limits for S 181.975 Axial Recovery = 106.31%						
Sb 206.836†	493.1	523.50 µg/L	40.826	523.50 ppb	40.826	7.80%
QC value within limits for Sb 206.836 Recovery = 104.70%						
Se 196.026†	347.7	542.25 µg/L	47.881	542.25 ppb	47.881	8.83%
QC value within limits for Se 196.026 Recovery = 108.45%						
SiO2†	28090.5	5735.4 µg/L	210.04	5735.4 ppb	210.04	3.66%
QC value within limits for SiO2 Recovery = 107.25%						
Si 251.611†	33055.1	2677.6 µg/L	96.57	2677.6 ppb	96.57	3.61%
QC value within limits for Si 251.611 Recovery = 107.10%						
Sn 189.927†	937.6	531.11 µg/L	57.934	531.11 ppb	57.934	10.91%
QC value within limits for Sn 189.927 Recovery = 106.22%						
Sr 421.552†	87051.8	520.74 µg/L	0.866	520.74 ppb	0.866	0.17%
QC value within limits for Sr 421.552 Recovery = 104.15%						
Ti 334.940†	218125.4	526.95 µg/L	17.271	526.95 ppb	17.271	3.28%
QC value within limits for Ti 334.940 Recovery = 105.39%						
Tl 190.801†	317.9	533.98 µg/L	23.547	533.98 ppb	23.547	4.41%
QC value within limits for Tl 190.801 Recovery = 106.80%						
U 409.014†	5573.7	517.03 µg/L	32.606	517.03 ppb	32.606	6.31%
QC value within limits for U 409.014 Recovery = 103.41%						
V 292.402†	43645.2	531.13 µg/L	27.670	531.13 ppb	27.670	5.21%
QC value within limits for V 292.402 Recovery = 106.23%						
Zn 213.857†	18740.5	523.09 µg/L	25.100	523.09 ppb	25.100	4.80%
QC value within limits for Zn 213.857 Recovery = 104.62%						

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 07:13:49

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	77610.3	77610.3	98.9 %		07:14:21
1	Al 396.153Radial†	-5.5	24.0	15.523 µg/L	15.523 ppb	07:14:21
1	Ca 317.933Radial†	299.9	56.1	40.418 µg/L	40.418 ppb	07:14:42
1	Fe 238.204 Radial†	17.9	1.7	22.812 µg/L	22.812 ppb	07:14:42
1	K 766.490 Radial†	402.6	8.4	5.2867 µg/L	5.2867 ppb	07:14:21
1	Mg 279.077 IEC†	7.7	-0.4	-3.9550 µg/L	-3.9550 ppb	07:14:42
1	Na 589.592 Radial†	577.6	30.4	8.0804 µg/L	8.0804 ppb	07:14:21
1	Sr 421.552†	667.2	40.6	0.2429 µg/L	0.2429 ppb	07:14:21
1	Sc 361.383	1958568.2	1958568.2	99.095 %		07:15:44
1	Y 371.029	1238167.9	1238167.9	99.124 %		07:15:44
1	Ag 328.068†	0.5	93.1	0.8440 µg/L	0.8440 ppb	07:15:49
1	As 188.979†	-3.0	-0.3	-0.6373 µg/L	-0.6373 ppb	07:16:10
1	B 249.677†	370.6	4.0	0.1802 µg/L	0.1802 ppb	07:15:49
1	Ba 233.527†	-13.5	10.4	0.2904 µg/L	0.2904 ppb	07:16:10
1	Be 313.107†	4435.7	642.4	0.4321 µg/L	0.4321 ppb	07:15:49
1	Cd 226.502†	-102.8	21.6	0.6093 µg/L	0.6093 ppb	07:16:10
1	Co 228.616†	-44.5	4.4	0.2350 µg/L	0.2350 ppb	07:16:10
1	Cr 267.716†	-59.8	41.8	0.9360 µg/L	0.9360 ppb	07:15:49
1	Cu 324.752†	4304.3	443.6	3.2559 µg/L	3.2559 ppb	07:15:49
1	Mn 257.610†	-28.9	118.7	0.4239 µg/L	0.4239 ppb	07:16:10
1	Mo 202.031†	17.9	5.5	0.6621 µg/L	0.6621 ppb	07:16:10
1	Ni 231.604†	338.4	10.1	0.6114 µg/L	0.6114 ppb	07:16:10
1	P 214.914†	217.2	-0.6	-1.7992 µg/L	-1.7992 ppb	07:16:10
1	Pb 220.353†	76.6	16.1	4.5249 µg/L	4.5249 ppb	07:16:10
1	S 181.975 Axial†	24.1	1.2	6.7481 µg/L	6.7481 ppb	07:16:10
1	Sb 206.836†	24.7	0.9	0.9329 µg/L	0.9329 ppb	07:16:10
1	Se 196.026†	6.2	-1.7	-2.4951 µg/L	-2.4951 ppb	07:16:10
1	SiO2†	2402.6	35.1	7.1686 µg/L	7.1686 ppb	07:15:49
1	Si 251.611†	302.2	22.6	1.8279 µg/L	1.8279 ppb	07:16:10
1	Sn 189.927†	25.2	1.9	1.1039 µg/L	1.1039 ppb	07:16:10
1	Ti 334.940†	852.1	156.0	0.3781 µg/L	0.3781 ppb	07:15:49
1	Tl 190.801†	-17.7	6.7	11.062 µg/L	11.062 ppb	07:16:10
1	U 409.014†	-272.4	-88.7	-8.2488 µg/L	-8.2488 ppb	07:15:49
1	V 292.402†	-84.6	29.9	0.3599 µg/L	0.3599 ppb	07:15:49
1	Zn 213.857†	684.7	58.7	1.6412 µg/L	1.6412 ppb	07:16:10
2	Sc RADIAL	77168.5	77168.5	98.3 %		07:14:47
2	Al 396.153Radial†	-28.6	0.5	0.2973 µg/L	0.2973 ppb	07:14:47
2	Ca 317.933Radial†	289.7	47.5	34.191 µg/L	34.191 ppb	07:15:08
2	Fe 238.204 Radial†	17.8	1.8	23.388 µg/L	23.388 ppb	07:15:08
2	K 766.490 Radial†	458.4	67.5	42.610 µg/L	42.610 ppb	07:14:47
2	Mg 279.077 IEC†	14.2	6.3	64.724 µg/L	64.724 ppb	07:15:08
2	Na 589.592 Radial†	559.3	15.1	4.0323 µg/L	4.0323 ppb	07:14:47
2	Sr 421.552†	711.9	89.9	0.5379 µg/L	0.5379 ppb	07:14:47
2	Sc 361.383	1947345.7	1947345.7	98.527 %		07:16:16
2	Y 371.029	1230773.7	1230773.7	98.532 %		07:16:16
2	Ag 328.068†	-41.9	50.1	0.4576 µg/L	0.4576 ppb	07:16:21
2	As 188.979†	-0.4	2.3	4.9615 µg/L	4.9615 ppb	07:16:42
2	B 249.677†	298.9	-66.6	-3.1646 µg/L	-3.1646 ppb	07:16:21
2	Ba 233.527†	-15.4	8.4	0.2351 µg/L	0.2351 ppb	07:16:42
2	Be 313.107†	4388.6	620.5	0.4173 µg/L	0.4173 ppb	07:16:21
2	Cd 226.502†	-112.0	11.6	0.3264 µg/L	0.3264 ppb	07:16:42
2	Co 228.616†	-31.8	17.0	0.9053 µg/L	0.9053 ppb	07:16:42
2	Cr 267.716†	-50.8	50.6	1.1347 µg/L	1.1347 ppb	07:16:21
2	Cu 324.752†	4233.6	396.9	2.9137 µg/L	2.9137 ppb	07:16:21
2	Mn 257.610†	-110.2	36.0	0.1283 µg/L	0.1283 ppb	07:16:42
2	Mo 202.031†	13.3	0.9	0.1092 µg/L	0.1092 ppb	07:16:42
2	Ni 231.604†	326.0	-0.6	-0.0360 µg/L	-0.0360 ppb	07:16:42
2	P 214.914†	212.5	-4.2	-9.9216 µg/L	-9.9216 ppb	07:16:42
2	Pb 220.353†	69.3	9.2	2.5598 µg/L	2.5598 ppb	07:16:42

2	S 181.975 Axial†	20.1	-2.7	-15.188 µg/L	-15.188 ppb	07:16:42
2	Sb 206.836†	23.4	-0.3	-0.2893 µg/L	-0.2893 ppb	07:16:42
2	Se 196.026†	11.3	3.5	5.3460 µg/L	5.3460 ppb	07:16:42
2	SiO2†	2391.9	38.3	7.8129 µg/L	7.8129 ppb	07:16:21
2	Si 251.611†	272.2	-6.2	-0.4987 µg/L	-0.4987 ppb	07:16:42
2	Sn 189.927†	26.6	3.5	1.9953 µg/L	1.9953 ppb	07:16:42
2	Ti 334.940†	901.5	211.2	0.5059 µg/L	0.5059 ppb	07:16:21
2	Tl 190.801†	-24.4	-0.2	-0.3991 µg/L	-0.3991 ppb	07:16:42
2	U 409.014†	-147.3	36.7	3.4091 µg/L	3.4091 ppb	07:16:21
2	V 292.402†	-60.5	53.9	0.6565 µg/L	0.6565 ppb	07:16:21
2	Zn 213.857†	678.2	56.1	1.5681 µg/L	1.5681 ppb	07:16:42
3	Sc RADIAL	77693.7	77693.7	99.0 %		07:15:13
3	Al 396.153Radial†	-23.7	5.6	3.6168 µg/L	3.6168 ppb	07:15:13
3	Ca 317.933Radial†	291.5	47.2	34.025 µg/L	34.025 ppb	07:15:33
3	Fe 238.204 Radial†	18.4	2.3	29.879 µg/L	29.879 ppb	07:15:33
3	K 766.490 Radial†	409.0	14.4	9.1115 µg/L	9.1115 ppb	07:15:13
3	Mg 279.077 IEC†	11.2	3.2	32.651 µg/L	32.651 ppb	07:15:33
3	Na 589.592 Radial†	570.2	22.3	5.9393 µg/L	5.9393 ppb	07:15:13
3	Sr 421.552†	639.6	12.1	0.0722 µg/L	0.0722 ppb	07:15:13
3	Sc 361.383	1947377.5	1947377.5	98.529 %		07:16:48
3	Y 371.029	1230920.2	1230920.2	98.544 %		07:16:48
3	Ag 328.068†	-47.8	44.1	0.4036 µg/L	0.4036 ppb	07:16:54
3	As 188.979†	-4.6	-2.0	-4.2753 µg/L	-4.2753 ppb	07:17:14
3	B 249.677†	311.4	-53.9	-2.5661 µg/L	-2.5661 ppb	07:16:54
3	Ba 233.527†	-27.2	-3.7	-0.1014 µg/L	-0.1014 ppb	07:17:14
3	Be 313.107†	4001.5	227.5	0.1529 µg/L	0.1529 ppb	07:16:54
3	Cd 226.502†	-123.2	0.2	0.0034 µg/L	0.0034 ppb	07:17:14
3	Co 228.616†	-44.7	4.0	0.2115 µg/L	0.2115 ppb	07:17:14
3	Cr 267.716†	-56.8	44.5	0.9965 µg/L	0.9965 ppb	07:16:54
3	Cu 324.752†	4265.7	429.5	3.1532 µg/L	3.1532 ppb	07:16:54
3	Mn 257.610†	-99.0	47.4	0.1706 µg/L	0.1706 ppb	07:17:14
3	Mo 202.031†	15.6	3.2	0.3922 µg/L	0.3922 ppb	07:17:14
3	Ni 231.604†	335.8	9.4	0.5670 µg/L	0.5670 ppb	07:17:14
3	P 214.914†	224.0	7.5	16.998 µg/L	16.998 ppb	07:17:14
3	Pb 220.353†	64.2	4.0	1.0976 µg/L	1.0976 ppb	07:17:14
3	S 181.975 Axial†	26.2	3.5	19.478 µg/L	19.478 ppb	07:17:14
3	Sb 206.836†	28.4	4.8	5.0405 µg/L	5.0405 ppb	07:17:14
3	Se 196.026†	11.5	3.8	5.7553 µg/L	5.7553 ppb	07:17:14
3	SiO2†	2384.6	30.8	6.2987 µg/L	6.2987 ppb	07:16:54
3	Si 251.611†	306.0	28.1	2.2798 µg/L	2.2798 ppb	07:17:14
3	Sn 189.927†	24.7	1.6	0.9115 µg/L	0.9115 ppb	07:17:14
3	Ti 334.940†	812.8	121.0	0.2906 µg/L	0.2906 ppb	07:16:54
3	Tl 190.801†	-21.0	3.2	5.2723 µg/L	5.2723 ppb	07:17:14
3	U 409.014†	-112.3	72.3	6.7129 µg/L	6.7129 ppb	07:16:54
3	V 292.402†	-63.3	51.1	0.6285 µg/L	0.6285 ppb	07:16:54
3	Zn 213.857†	673.6	51.4	1.4350 µg/L	1.4350 ppb	07:17:14

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1951097.1	98.717 %	0.3274			0.33%
Sc RADIAL	77490.9	98.7 %	0.36			0.36%
Y 371.029	1233287.3	98.733 %	0.3384			0.34%
Ag 328.068†	62.4	0.5684 µg/L	0.24020	0.5684 ppb	0.24020	42.26%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.0	6.4792 µg/L	8.00645	6.4792 ppb	8.00645	123.57%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.0	0.0163 µg/L	4.65296	0.0163 ppb	4.65296	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-38.8	-1.8502 µg/L	1.78360	-1.8502 ppb	1.78360	96.40%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.0	0.1414 µg/L	0.21205	0.1414 ppb	0.21205	150.00%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	496.8	0.3341 µg/L	0.15707	0.3341 ppb	0.15707	47.01%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	50.3	36.211 µg/L	3.6439	36.211 ppb	3.6439	10.06%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	11.1	0.3130 µg/L	0.30321	0.3130 ppb	0.30321	96.86%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	8.5	0.4506 µg/L	0.39392	0.4506 ppb	0.39392	87.42%

Cr	267.716†	45.6	1.0224 µg/L	0.10189	1.0224 ppb	0.10189	9.97%
	QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu	324.752†	423.3	3.1076 µg/L	0.17561	3.1076 ppb	0.17561	5.65%
	QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe	238.204 Radial†	1.9	25.360 µg/L	3.9245	25.360 ppb	3.9245	15.48%
	QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K	766.490 Radial†	30.1	19.003 µg/L	20.5338	19.003 ppb	20.5338	108.06%
	QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg	279.077 IEC†	3.0	31.140 µg/L	34.3644	31.140 ppb	34.3644	110.35%
	QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn	257.610†	67.4	0.2409 µg/L	0.15986	0.2409 ppb	0.15986	66.36%
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo	202.031†	3.2	0.3878 µg/L	0.27650	0.3878 ppb	0.27650	71.29%
	QC value within limits for Mo 202.031 Recovery = Not calculated						
Na	589.592 Radial†	22.6	6.0173 µg/L	2.02517	6.0173 ppb	2.02517	33.66%
	QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni	231.604†	6.3	0.3808 µg/L	0.36166	0.3808 ppb	0.36166	94.97%
	QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	0.9	1.7591 µg/L	13.80819	1.7591 ppb	13.80819	784.94%
	QC value within limits for P 214.914 Recovery = Not calculated						
Pb	220.353†	9.7	2.7275 µg/L	1.71980	2.7275 ppb	1.71980	63.06%
	QC value within limits for Pb 220.353 Recovery = Not calculated						
S	181.975 Axial†	0.7	3.6792 µg/L	17.53577	3.6792 ppb	17.53577	476.62%
	QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb	206.836†	1.8	1.8947 µg/L	2.79205	1.8947 ppb	2.79205	147.36%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	1.8	2.8687 µg/L	4.64968	2.8687 ppb	4.64968	162.08%
	QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†		34.7	7.0934 µg/L	0.75993	7.0934 ppb	0.75993	10.71%
	QC value within limits for SiO2 Recovery = Not calculated						
Si	251.611†	14.9	1.2030 µg/L	1.49094	1.2030 ppb	1.49094	123.94%
	QC value within limits for Si 251.611 Recovery = Not calculated						
Sn	189.927†	2.3	1.3369 µg/L	0.57827	1.3369 ppb	0.57827	43.25%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	421.552†	47.5	0.2843 µg/L	0.23559	0.2843 ppb	0.23559	82.86%
	QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti	334.940†	162.7	0.3915 µg/L	0.10826	0.3915 ppb	0.10826	27.65%
	QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl	190.801†	3.2	5.3118 µg/L	5.73072	5.3118 ppb	5.73072	107.89%
	QC value within limits for Tl 190.801 Recovery = Not calculated						
U	409.014†	6.8	0.6244 µg/L	7.85994	0.6244 ppb	7.85994	>999.9%
	QC value within limits for U 409.014 Recovery = Not calculated						
V	292.402†	45.0	0.5483 µg/L	0.16377	0.5483 ppb	0.16377	29.87%
	QC value within limits for V 292.402 Recovery = Not calculated						
Zn	213.857†	55.4	1.5481 µg/L	0.10451	1.5481 ppb	0.10451	6.75%
	QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: LR2

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 113

Date Collected: 1/29/2010 07:17:24

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	76586.7	76586.7	97.6 %		07:17:58
1	Al 396.153Radial†	-24.0	4.9	3.1787 µg/L	3.1787 ppb	07:17:58
1	Ca 317.933Radial†	298.4	58.6	42.250 µg/L	42.250 ppb	07:18:19
1	Fe 238.204 Radial†	15.1	-0.9	-11.972 µg/L	-11.972 ppb	07:18:19
1	K 766.490 Radial†	347.9	-42.2	-26.642 µg/L	-26.642 ppb	07:17:58
1	Mg 279.077 IEC†	12.8	5.0	51.394 µg/L	51.394 ppb	07:18:19
1	Na 589.592 Radial†	555.4	15.4	4.1060 µg/L	4.1060 ppb	07:17:58
1	Sr 421.552†	646.0	28.0	0.1672 µg/L	0.1672 ppb	07:17:58
1	Sc 361.383	1974406.3	1974406.3	99.896 %		07:19:21
1	Y 371.029	1249400.5	1249400.5	100.02 %		07:19:21
1	Ag 328.068†	-84.8	7.7	0.0680 µg/L	0.0680 ppb	07:19:27
1	As 188.979†	-2.4	0.3	0.7297 µg/L	0.7297 ppb	07:19:47
1	B 249.677†	301.6	-68.0	-3.2156 µg/L	-3.2156 ppb	07:19:47
1	Ba 233.527†	384904.1	385327.4	10763 µg/L	10763 ppb	07:19:21
1	Be 313.107†	3878.6	48.9	0.0328 µg/L	0.0328 ppb	07:19:27
1	Cd 226.502†	-121.2	4.0	0.1173 µg/L	0.1173 ppb	07:19:47
1	Co 228.616†	-338.9	-290.0	-15.426 µg/L	-15.426 ppb	07:19:47
1	Cr 267.716†	-69.0	33.1	0.7414 µg/L	0.7414 ppb	07:19:27
1	Cu 324.752†	4224.0	328.4	2.4063 µg/L	2.4063 ppb	07:19:27
1	Mn 257.610†	-81.1	66.7	0.2328 µg/L	0.2328 ppb	07:19:47
1	Mo 202.031†	14.6	2.0	0.2455 µg/L	0.2455 ppb	07:19:47
1	Ni 231.604†	383.4	52.4	3.1917 µg/L	3.1917 ppb	07:19:47
1	P 214.914†	218.1	-1.6	-3.8098 µg/L	-3.8098 ppb	07:19:47
1	Pb 220.353†	62.2	1.1	0.3205 µg/L	0.3205 ppb	07:19:47
1	S 181.975 Axial†	28.0	4.9	27.502 µg/L	27.502 ppb	07:19:47
1	Sb 206.836†	24.0	0.0	0.0372 µg/L	0.0372 ppb	07:19:47
1	Se 196.026†	10.4	2.5	3.7228 µg/L	3.7228 ppb	07:19:47
1	SiO2†	2380.6	-6.4	-1.2979 µg/L	-1.2979 ppb	07:19:27
1	Si 251.611†	286.4	4.2	0.3434 µg/L	0.3434 ppb	07:19:47
1	Sn 189.927†	25.0	1.6	0.8978 µg/L	0.8978 ppb	07:19:47
1	Ti 334.940†	733.4	30.3	0.0698 µg/L	0.0698 ppb	07:19:27
1	Tl 190.801†	-19.0	5.5	9.2328 µg/L	9.2328 ppb	07:19:47
1	U 409.014†	-193.0	-7.0	-0.6536 µg/L	-0.6536 ppb	07:19:27
1	V 292.402†	-121.4	-6.2	-0.0725 µg/L	-0.0725 ppb	07:19:27
1	Zn 213.857†	685.8	54.2	1.5041 µg/L	1.5041 ppb	07:19:47
2	Sc RADIAL	76788.0	76788.0	97.8 %		07:18:24
2	Al 396.153Radial†	-51.6	-23.2	-15.038 µg/L	-15.038 ppb	07:18:24
2	Ca 317.933Radial†	308.7	68.3	49.204 µg/L	49.204 ppb	07:18:45
2	Fe 238.204 Radial†	17.8	1.9	24.235 µg/L	24.235 ppb	07:18:45
2	K 766.490 Radial†	410.9	21.3	13.439 µg/L	13.439 ppb	07:18:24
2	Mg 279.077 IEC†	6.0	-2.1	-21.272 µg/L	-21.272 ppb	07:18:45
2	Na 589.592 Radial†	532.8	-9.2	-2.4403 µg/L	-2.4403 ppb	07:18:24
2	Sr 421.552†	631.9	11.8	0.0708 µg/L	0.0708 ppb	07:18:24
2	Sc 361.383	1954278.5	1954278.5	98.878 %		07:19:53
2	Y 371.029	1236366.9	1236366.9	98.980 %		07:19:53
2	Ag 328.068†	-40.7	51.4	0.4653 µg/L	0.4653 ppb	07:19:59
2	As 188.979†	3.6	6.4	13.906 µg/L	13.906 ppb	07:20:19
2	B 249.677†	287.1	-79.6	-3.7805 µg/L	-3.7805 ppb	07:20:19
2	Ba 233.527†	382916.7	387285.9	10818 µg/L	10818 ppb	07:19:53
2	Be 313.107†	3954.6	165.7	0.1114 µg/L	0.1114 ppb	07:19:59
2	Cd 226.502†	-121.7	2.2	0.0627 µg/L	0.0627 ppb	07:20:19
2	Co 228.616†	-335.4	-289.9	-15.419 µg/L	-15.419 ppb	07:20:19
2	Cr 267.716†	-24.5	77.3	1.7325 µg/L	1.7325 ppb	07:19:59
2	Cu 324.752†	4200.1	347.8	2.5536 µg/L	2.5536 ppb	07:19:59
2	Mn 257.610†	-81.8	65.2	0.2351 µg/L	0.2351 ppb	07:20:19
2	Mo 202.031†	15.3	2.9	0.3509 µg/L	0.3509 ppb	07:20:19
2	Ni 231.604†	372.6	45.4	2.7656 µg/L	2.7656 ppb	07:20:19
2	P 214.914†	211.8	-5.6	-13.159 µg/L	-13.159 ppb	07:20:19
2	Pb 220.353†	75.9	15.6	4.3750 µg/L	4.3750 ppb	07:20:19

2	S 181.975 Axial†	21.5	-1.4	-7.7451 µg/L	-7.7451 ppb	07:20:19
2	Sb 206.836†	26.0	2.3	2.4295 µg/L	2.4295 ppb	07:20:19
2	Se 196.026†	13.1	5.3	8.1228 µg/L	8.1228 ppb	07:20:19
2	SiO2†	2336.0	-26.9	-5.4894 µg/L	-5.4894 ppb	07:19:59
2	Si 251.611†	303.4	24.5	1.9810 µg/L	1.9810 ppb	07:20:19
2	Sn 189.927†	23.6	0.4	0.2459 µg/L	0.2459 ppb	07:20:19
2	Ti 334.940†	786.4	91.4	0.2235 µg/L	0.2235 ppb	07:19:59
2	Tl 190.801†	-21.8	2.5	4.1803 µg/L	4.1803 ppb	07:20:19
2	U 409.014†	-175.2	9.1	0.8355 µg/L	0.8355 ppb	07:19:59
2	V 292.402†	-118.9	-5.0	-0.0510 µg/L	-0.0510 ppb	07:19:59
2	Zn 213.857†	682.8	58.3	1.6212 µg/L	1.6212 ppb	07:20:19
3	Sc RADIAL	76868.6	76868.6	97.9 %		07:18:50
3	Al 396.153Radial†	-42.3	-13.7	-8.8774 µg/L	-8.8774 ppb	07:18:50
3	Ca 317.933Radial†	296.7	55.8	40.189 µg/L	40.189 ppb	07:19:11
3	Fe 238.204 Radial†	17.0	1.0	13.334 µg/L	13.334 ppb	07:19:11
3	K 766.490 Radial†	438.0	48.4	30.565 µg/L	30.565 ppb	07:18:50
3	Mg 279.077 IEC†	8.7	0.8	7.9249 µg/L	7.9249 ppb	07:19:11
3	Na 589.592 Radial†	598.0	56.8	15.132 µg/L	15.132 ppb	07:18:50
3	Sr 421.552†	650.9	30.5	0.1823 µg/L	0.1823 ppb	07:18:50
3	Sc 361.383	1961642.1	1961642.1	99.251 %		07:20:26
3	Y 371.029	1241196.8	1241196.8	99.366 %		07:20:26
3	Ag 328.068†	-59.6	32.6	0.2949 µg/L	0.2949 ppb	07:20:31
3	As 188.979†	-0.6	2.1	4.6822 µg/L	4.6822 ppb	07:20:52
3	B 249.677†	292.0	-75.7	-3.5904 µg/L	-3.5904 ppb	07:20:52
3	Ba 233.527†	370301.5	373121.6	10422 µg/L	10422 ppb	07:20:26
3	Be 313.107†	3909.0	104.8	0.0704 µg/L	0.0704 ppb	07:20:31
3	Cd 226.502†	-118.4	6.0	0.1709 µg/L	0.1709 ppb	07:20:52
3	Co 228.616†	-296.7	-249.6	-13.277 µg/L	-13.277 ppb	07:20:52
3	Cr 267.716†	-35.1	66.8	1.4973 µg/L	1.4973 ppb	07:20:31
3	Cu 324.752†	4182.3	313.9	2.3039 µg/L	2.3039 ppb	07:20:31
3	Mn 257.610†	-102.7	44.4	0.1587 µg/L	0.1587 ppb	07:20:52
3	Mo 202.031†	15.3	2.9	0.3465 µg/L	0.3465 ppb	07:20:52
3	Ni 231.604†	364.0	35.3	2.1561 µg/L	2.1561 ppb	07:20:52
3	P 214.914†	223.3	5.2	11.676 µg/L	11.676 ppb	07:20:52
3	Pb 220.353†	74.4	13.8	3.8583 µg/L	3.8583 ppb	07:20:52
3	S 181.975 Axial†	23.1	0.2	1.0242 µg/L	1.0242 ppb	07:20:52
3	Sb 206.836†	19.7	-4.2	-4.4214 µg/L	-4.4214 ppb	07:20:52
3	Se 196.026†	1.9	-6.0	-9.0150 µg/L	-9.0150 ppb	07:20:52
3	SiO2†	2363.9	-7.7	-1.5703 µg/L	-1.5703 ppb	07:20:31
3	Si 251.611†	285.1	4.8	0.3888 µg/L	0.3888 ppb	07:20:52
3	Sn 189.927†	20.0	-3.3	-1.8335 µg/L	-1.8335 ppb	07:20:52
3	Ti 334.940†	762.6	64.5	0.1558 µg/L	0.1558 ppb	07:20:31
3	Tl 190.801†	-19.1	5.3	8.8888 µg/L	8.8888 ppb	07:20:52
3	U 409.014†	-206.7	-22.1	-2.0552 µg/L	-2.0552 ppb	07:20:31
3	V 292.402†	-114.9	-0.4	-0.0004 µg/L	-0.0004 ppb	07:20:31
3	Zn 213.857†	680.4	53.3	1.4847 µg/L	1.4847 ppb	07:20:52

Mean Data: LR2

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1963442.3	99.342 %		0.5153			0.52%
Sc RADIAL	76747.8	97.8 %		0.19			0.19%
Y 371.029	1242321.4	99.457 %		0.5275			0.53%
Ag 328.068†	30.6	0.2761 µg/L		0.19935	0.2761 ppb	0.19935	72.22%
Al 396.153Radial†	-10.7	-6.9123 µg/L		9.26598	-6.9123 ppb	9.26598	134.05%
As 188.979†	3.0	6.4393 µg/L		6.76149	6.4393 ppb	6.76149	105.00%
B 249.677†	-74.4	-3.5288 µg/L		0.28742	-3.5288 ppb	0.28742	8.14%
Ba 233.527†	381911.7	10668 µg/L		214.4	10668 ppb	214.4	2.01%
Be 313.107†	106.4	0.0715 µg/L		0.03928	0.0715 ppb	0.03928	54.90%
Ca 317.933Radial†	60.9	43.881 µg/L		4.7238	43.881 ppb	4.7238	10.77%
Cd 226.502†	4.1	0.1170 µg/L		0.05411	0.1170 ppb	0.05411	46.26%
Co 228.616†	-276.5	-14.707 µg/L		1.2389	-14.707 ppb	1.2389	8.42%
Cr 267.716†	59.1	1.3238 µg/L		0.51784	1.3238 ppb	0.51784	39.12%
Cu 324.752†	330.0	2.4213 µg/L		0.12552	2.4213 ppb	0.12552	5.18%
Fe 238.204 Radial†	0.7	8.5322 µg/L		18.57449	8.5322 ppb	18.57449	217.70%
K 766.490 Radial†	9.2	5.7876 µg/L		29.36127	5.7876 ppb	29.36127	507.31%
Mg 279.077 IEC†	1.2	12.682 µg/L		36.5656	12.682 ppb	36.5656	288.32%
Mn 257.610†	58.7	0.2089 µg/L		0.04344	0.2089 ppb	0.04344	20.80%
Mo 202.031†	2.6	0.3143 µg/L		0.05963	0.3143 ppb	0.05963	18.97%
Na 589.592 Radial†	21.0	5.5992 µg/L		8.88079	5.5992 ppb	8.88079	158.61%

Ni 231.604†	44.4	2.7044 µg/L	0.52048	2.7044 ppb	0.52048	19.25%
P 214.914†	-0.6	-1.7644 µg/L	12.54335	-1.7644 ppb	12.54335	710.90%
Pb 220.353†	10.2	2.8513 µg/L	2.20688	2.8513 ppb	2.20688	77.40%
S 181.975 Axial†	1.2	6.9269 µg/L	18.34980	6.9269 ppb	18.34980	264.91%
Sb 206.836†	-0.6	-0.6516 µg/L	3.47701	-0.6516 ppb	3.47701	533.64%
Se 196.026†	0.6	0.9435 µg/L	8.90055	0.9435 ppb	8.90055	943.32%
SiO2†	-13.6	-2.7859 µg/L	2.34528	-2.7859 ppb	2.34528	84.19%
Si 251.611†	11.2	0.9044 µg/L	0.93263	0.9044 ppb	0.93263	103.12%
Sn 189.927†	-0.4	-0.2299 µg/L	1.42649	-0.2299 ppb	1.42649	620.42%
Sr 421.552†	23.4	0.1401 µg/L	0.06050	0.1401 ppb	0.06050	43.19%
Ti 334.940†	62.1	0.1497 µg/L	0.07705	0.1497 ppb	0.07705	51.47%
Tl 190.801†	4.4	7.4340 µg/L	2.82300	7.4340 ppb	2.82300	37.97%
U 409.014†	-6.7	-0.6245 µg/L	1.44555	-0.6245 ppb	1.44555	231.49%
V 292.402†	-3.9	-0.0413 µg/L	0.03700	-0.0413 ppb	0.03700	89.58%
Zn 213.857†	55.3	1.5367 µg/L	0.07387	1.5367 ppb	0.07387	4.81%

Sequence No.: 4

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 07:21:01

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	78654.9	78654.9	100 %		07:21:37
1	Al 396.153Radial†	7834.4	7846.5	5070.8 µg/L	5070.8 ppb	07:21:37
1	Ca 317.933Radial†	7250.7	6987.5	5034.8 µg/L	5034.8 ppb	07:21:37
1	Fe 238.204 Radial†	400.6	383.4	5088.3 µg/L	5088.3 ppb	07:21:57
1	K 766.490 Radial†	8625.8	8208.0	5178.4 µg/L	5178.4 ppb	07:21:37
1	Mg 279.077 IEC†	521.5	512.2	5260.6 µg/L	5260.6 ppb	07:21:57
1	Na 589.592 Radial†	38537.1	37898.0	10090 µg/L	10090 ppb	07:21:37
1	Sr 421.552†	87537.0	86708.9	518.69 µg/L	518.69 ppb	07:21:37
1	Sc 361.383	1972402.7	1972402.7	99.795 %		07:23:01
1	Y 371.029	1242162.1	1242162.1	99.444 %		07:23:01
1	Ag 328.068†	59349.0	59563.5	541.53 µg/L	541.53 ppb	07:23:06
1	As 188.979†	251.8	255.1	554.94 µg/L	554.94 ppb	07:23:27
1	B 249.677†	11469.7	11123.3	525.10 µg/L	525.10 ppb	07:23:06
1	Ba 233.527†	19192.9	19256.3	538.86 µg/L	538.86 ppb	07:23:06
1	Be 313.107†	790323.0	788112.9	530.06 µg/L	530.06 ppb	07:23:01
1	Cd 226.502†	18826.1	18990.1	538.02 µg/L	538.02 ppb	07:23:06
1	Co 228.616†	10094.0	10164.0	540.07 µg/L	540.07 ppb	07:23:06
1	Cr 267.716†	24130.0	24281.7	544.41 µg/L	544.41 ppb	07:23:06
1	Cu 324.752†	77697.0	73956.7	542.98 µg/L	542.98 ppb	07:23:06
1	Mn 257.610†	149691.4	150146.8	532.67 µg/L	532.67 ppb	07:23:01
1	Mo 202.031†	4465.9	4462.5	540.80 µg/L	540.80 ppb	07:23:27
1	Ni 231.604†	9268.2	8955.8	541.68 µg/L	541.68 ppb	07:23:06
1	P 214.914†	1420.7	1203.8	2722.4 µg/L	2722.4 ppb	07:23:27
1	Pb 220.353†	2018.8	1961.8	550.51 µg/L	550.51 ppb	07:23:27
1	S 181.975 Axial†	218.3	195.6	1087.6 µg/L	1087.6 ppb	07:23:27
1	Sb 206.836†	542.0	519.1	551.26 µg/L	551.26 ppb	07:23:27
1	Se 196.026†	367.2	360.0	560.27 µg/L	560.27 ppb	07:23:27
1	SiO2†	30999.4	28673.7	5854.5 µg/L	5854.5 ppb	07:23:06
1	Si 251.611†	34056.9	33844.4	2741.6 µg/L	2741.6 ppb	07:23:06
1	Sn 189.927†	1009.6	988.2	559.62 µg/L	559.62 ppb	07:23:27
1	Ti 334.940†	221523.2	221274.4	534.56 µg/L	534.56 ppb	07:23:01
1	Tl 190.801†	303.0	328.2	551.21 µg/L	551.21 ppb	07:23:27
1	U 409.014†	5678.2	5876.1	545.15 µg/L	545.15 ppb	07:23:06
1	V 292.402†	44792.2	44999.6	547.72 µg/L	547.72 ppb	07:23:06
1	Zn 213.857†	19884.7	19293.3	538.53 µg/L	538.53 ppb	07:23:06
2	Sc RADIAL	78176.1	78176.1	99.6 %		07:22:03
2	Al 396.153Radial†	7807.4	7867.3	5084.3 µg/L	5084.3 ppb	07:22:03
2	Ca 317.933Radial†	7239.3	7020.3	5058.4 µg/L	5058.4 ppb	07:22:03
2	Fe 238.204 Radial†	401.5	386.8	5132.9 µg/L	5132.9 ppb	07:22:23
2	K 766.490 Radial†	8633.6	8268.5	5216.7 µg/L	5216.7 ppb	07:22:03
2	Mg 279.077 IEC†	515.0	508.9	5225.9 µg/L	5225.9 ppb	07:22:23
2	Na 589.592 Radial†	38603.4	38200.0	10170 µg/L	10170 ppb	07:22:03
2	Sr 421.552†	87529.6	87236.3	521.84 µg/L	521.84 ppb	07:22:03
2	Sc 361.383	1965086.5	1965086.5	99.425 %		07:23:34
2	Y 371.029	1238017.2	1238017.2	99.112 %		07:23:34
2	Ag 328.068†	59237.6	59672.9	542.53 µg/L	542.53 ppb	07:23:39
2	As 188.979†	252.1	256.3	557.53 µg/L	557.53 ppb	07:24:00
2	B 249.677†	11442.9	11139.1	525.83 µg/L	525.83 ppb	07:23:39
2	Ba 233.527†	19190.0	19325.0	540.78 µg/L	540.78 ppb	07:23:39
2	Be 313.107†	796804.8	797580.6	536.43 µg/L	536.43 ppb	07:23:34
2	Cd 226.502†	18775.0	19008.9	538.55 µg/L	538.55 ppb	07:23:39
2	Co 228.616†	10089.6	10197.3	541.83 µg/L	541.83 ppb	07:23:39
2	Cr 267.716†	24133.8	24375.5	546.52 µg/L	546.52 ppb	07:23:39
2	Cu 324.752†	77694.0	74243.5	545.09 µg/L	545.09 ppb	07:23:39
2	Mn 257.610†	150709.9	151729.7	538.28 µg/L	538.28 ppb	07:23:34
2	Mo 202.031†	4463.1	4476.4	542.49 µg/L	542.49 ppb	07:24:00
2	Ni 231.604†	9265.7	8987.9	543.62 µg/L	543.62 ppb	07:23:39
2	P 214.914†	1408.4	1196.7	2706.0 µg/L	2706.0 ppb	07:24:00
2	Pb 220.353†	2018.6	1969.1	552.55 µg/L	552.55 ppb	07:24:00

2	S 181.975 Axial†	222.4	200.6	1115.2 µg/L	1115.2 ppb	07:24:00
2	Sb 206.836†	537.4	516.5	548.56 µg/L	548.56 ppb	07:24:00
2	Se 196.026†	375.3	369.5	574.73 µg/L	574.73 ppb	07:24:00
2	SiO2†	30968.8	28758.6	5871.8 µg/L	5871.8 ppb	07:23:39
2	Si 251.611†	33986.7	33900.9	2746.1 µg/L	2746.1 ppb	07:23:39
2	Sn 189.927†	1014.8	997.2	564.70 µg/L	564.70 ppb	07:24:00
2	Ti 334.940†	223312.8	223900.8	540.91 µg/L	540.91 ppb	07:23:34
2	Tl 190.801†	298.9	325.2	546.25 µg/L	546.25 ppb	07:24:00
2	U 409.014†	5629.7	5848.5	542.58 µg/L	542.58 ppb	07:23:39
2	V 292.402†	44797.1	45171.6	549.80 µg/L	549.80 ppb	07:23:39
2	Zn 213.857†	19861.1	19343.7	539.93 µg/L	539.93 ppb	07:23:39
3	Sc RADIAL	78796.8	78796.8	100 %		07:22:29
3	Al 396.153Radial†	7897.2	7895.0	5103.9 µg/L	5103.9 ppb	07:22:29
3	Ca 317.933Radial†	7286.0	7009.6	5050.7 µg/L	5050.7 ppb	07:22:29
3	Fe 238.204 Radial†	399.9	382.0	5068.7 µg/L	5068.7 ppb	07:22:49
3	K 766.490 Radial†	8684.1	8250.6	5205.3 µg/L	5205.3 ppb	07:22:29
3	Mg 279.077 IEC†	512.5	502.3	5157.5 µg/L	5157.5 ppb	07:22:49
3	Na 589.592 Radial†	38810.7	38101.2	10144 µg/L	10144 ppb	07:22:29
3	Sr 421.552†	88075.1	87087.4	520.95 µg/L	520.95 ppb	07:22:29
3	Sc 361.383	1967406.9	1967406.9	99.542 %		07:24:07
3	Y 371.029	1239052.8	1239052.8	99.195 %		07:24:07
3	Ag 328.068†	56728.6	57082.1	518.82 µg/L	518.82 ppb	07:24:13
3	As 188.979†	214.2	217.9	474.11 µg/L	474.11 ppb	07:24:33
3	B 249.677†	10851.9	10531.8	497.00 µg/L	497.00 ppb	07:24:13
3	Ba 233.527†	17837.9	17943.9	502.12 µg/L	502.12 ppb	07:24:13
3	Be 313.107†	755448.3	755088.7	507.85 µg/L	507.85 ppb	07:24:07
3	Cd 226.502†	17393.4	17598.7	498.55 µg/L	498.55 ppb	07:24:13
3	Co 228.616†	9222.8	9314.5	494.85 µg/L	494.85 ppb	07:24:13
3	Cr 267.716†	21556.5	21757.8	487.83 µg/L	487.83 ppb	07:24:13
3	Cu 324.752†	71662.1	68091.7	499.98 µg/L	499.98 ppb	07:24:13
3	Mn 257.610†	143216.8	144023.3	510.96 µg/L	510.96 ppb	07:24:07
3	Mo 202.031†	3776.7	3781.5	458.31 µg/L	458.31 ppb	07:24:33
3	Ni 231.604†	8508.8	8216.5	496.97 µg/L	496.97 ppb	07:24:13
3	P 214.914†	1240.3	1026.2	2316.4 µg/L	2316.4 ppb	07:24:33
3	Pb 220.353†	1771.4	1718.4	482.12 µg/L	482.12 ppb	07:24:33
3	S 181.975 Axial†	198.2	175.9	978.20 µg/L	978.20 ppb	07:24:33
3	Sb 206.836†	470.7	448.8	476.22 µg/L	476.22 ppb	07:24:33
3	Se 196.026†	320.9	314.4	491.73 µg/L	491.73 ppb	07:24:33
3	SiO2†	29205.2	26950.1	5502.6 µg/L	5502.6 ppb	07:24:13
3	Si 251.611†	31919.4	31783.7	2574.6 µg/L	2574.6 ppb	07:24:13
3	Sn 189.927†	848.3	828.7	469.68 µg/L	469.68 ppb	07:24:33
3	Ti 334.940†	210692.7	210957.8	509.63 µg/L	509.63 ppb	07:24:07
3	Tl 190.801†	271.8	297.6	500.03 µg/L	500.03 ppb	07:24:33
3	U 409.014†	5088.1	5297.7	491.39 µg/L	491.39 ppb	07:24:13
3	V 292.402†	40808.7	41111.7	500.11 µg/L	500.11 ppb	07:24:13
3	Zn 213.857†	18211.0	17662.5	492.96 µg/L	492.96 ppb	07:24:13

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1968298.7	99.587 %	0.1892			0.19%
Sc RADIAL	78542.6	100 %	0.4			0.41%
Y 371.029	1239744.0	99.250 %	0.1727			0.17%
Ag 328.068†	58772.8	534.29 µg/L	13.409	534.29 ppb	13.409	2.51%
QC value within limits for Ag 328.068 Recovery = 106.86%						
Al 396.153Radial†	7869.6	5086.3 µg/L	16.65	5086.3 ppb	16.65	0.33%
QC value within limits for Al 396.153Radial Recovery = 101.73%						
As 188.979†	243.1	528.86 µg/L	47.435	528.86 ppb	47.435	8.97%
QC value within limits for As 188.979 Recovery = 105.77%						
B 249.677†	10931.4	515.97 µg/L	16.436	515.97 ppb	16.436	3.19%
QC value within limits for B 249.677 Recovery = 103.19%						
Ba 233.527†	18841.7	527.25 µg/L	21.790	527.25 ppb	21.790	4.13%
QC value within limits for Ba 233.527 Recovery = 105.45%						
Be 313.107†	780260.7	524.78 µg/L	15.003	524.78 ppb	15.003	2.86%
QC value within limits for Be 313.107 Recovery = 104.96%						
Ca 317.933Radial†	7005.8	5048.0 µg/L	12.06	5048.0 ppb	12.06	0.24%
QC value within limits for Ca 317.933Radial Recovery = 100.96%						
Cd 226.502†	18532.5	525.04 µg/L	22.940	525.04 ppb	22.940	4.37%
QC value within limits for Cd 226.502 Recovery = 105.01%						
Co 228.616†	9891.9	525.58 µg/L	26.627	525.58 ppb	26.627	5.07%

Cr	267.716†	23471.7	526.25 µg/L	33.292	526.25 ppb	33.292	6.33%
Cu	324.752†	72097.3	529.35 µg/L	25.461	529.35 ppb	25.461	4.81%
Fe	238.204 Radial†	384.0	5096.6 µg/L	32.88	5096.6 ppb	32.88	0.65%
K	766.490 Radial†	8242.4	5200.1 µg/L	19.63	5200.1 ppb	19.63	0.38%
Mg	279.077 IEC†	507.8	5214.7 µg/L	52.42	5214.7 ppb	52.42	1.01%
Mn	257.610†	148633.3	527.30 µg/L	14.428	527.30 ppb	14.428	2.74%
Mo	202.031†	4240.1	513.87 µg/L	48.121	513.87 ppb	48.121	9.36%
Na	589.592 Radial†	38066.4	10135 µg/L	41.0	10135 ppb	41.0	0.40%
Ni	231.604†	8720.1	527.43 µg/L	26.391	527.43 ppb	26.391	5.00%
P	214.914†	1142.2	2581.6 µg/L	229.83	2581.6 ppb	229.83	8.90%
Pb	220.353†	1883.1	528.39 µg/L	40.088	528.39 ppb	40.088	7.59%
S	181.975 Axial†	190.7	1060.3 µg/L	72.43	1060.3 ppb	72.43	6.83%
Sb	206.836†	494.8	525.35 µg/L	42.564	525.35 ppb	42.564	8.10%
Se	196.026†	348.0	542.25 µg/L	44.342	542.25 ppb	44.342	8.18%
SiO2†		28127.5	5743.0 µg/L	208.36	5743.0 ppb	208.36	3.63%
Si	251.611†	33176.3	2687.4 µg/L	97.72	2687.4 ppb	97.72	3.64%
Sn	189.927†	938.1	531.34 µg/L	53.453	531.34 ppb	53.453	10.06%
Sr	421.552†	87010.9	520.49 µg/L	1.627	520.49 ppb	1.627	0.31%
Ti	334.940†	218711.0	528.36 µg/L	16.535	528.36 ppb	16.535	3.13%
Tl	190.801†	317.0	532.50 µg/L	28.227	532.50 ppb	28.227	5.30%
U	409.014†	5674.1	526.37 µg/L	30.321	526.37 ppb	30.321	5.76%
V	292.402†	43761.0	532.54 µg/L	28.106	532.54 ppb	28.106	5.28%
Zn	213.857†	18766.5	523.81 µg/L	26.723	523.81 ppb	26.723	5.10%

QC value within limits for Co 228.616 Recovery = 105.12%
 QC value within limits for Cr 267.716 Recovery = 105.25%
 QC value within limits for Cu 324.752 Recovery = 105.87%
 QC value within limits for Fe 238.204 Radial Recovery = 101.93%
 QC value within limits for K 766.490 Radial Recovery = 104.00%
 QC value within limits for Mg 279.077 IEC Recovery = 104.29%
 QC value within limits for Mn 257.610 Recovery = 105.46%
 QC value within limits for Mo 202.031 Recovery = 102.77%
 QC value within limits for Na 589.592 Radial Recovery = 101.35%
 QC value within limits for Ni 231.604 Recovery = 105.49%
 QC value within limits for P 214.914 Recovery = 103.26%
 QC value within limits for Pb 220.353 Recovery = 105.68%
 QC value within limits for S 181.975 Axial Recovery = 106.03%
 QC value within limits for Sb 206.836 Recovery = 105.07%
 QC value within limits for Se 196.026 Recovery = 108.45%
 QC value within limits for SiO2 Recovery = 107.40%
 QC value within limits for Si 251.611 Recovery = 107.50%
 QC value within limits for Sn 189.927 Recovery = 106.27%
 QC value within limits for Sr 421.552 Recovery = 104.10%
 QC value within limits for Ti 334.940 Recovery = 105.67%
 QC value within limits for Tl 190.801 Recovery = 106.50%
 QC value within limits for U 409.014 Recovery = 105.27%
 QC value within limits for V 292.402 Recovery = 106.51%
 QC value within limits for Zn 213.857 Recovery = 104.76%

All analyte(s) passed QC.

Sequence No.: 5

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 07:24:43

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	78707.8	78707.8	100 %		07:25:16
1	Al 396.153Radial†	-33.9	-4.3	-2.8122 µg/L	-2.8122 ppb	07:25:16
1	Ca 317.933Radial†	300.7	52.7	37.968 µg/L	37.968 ppb	07:25:36
1	Fe 238.204 Radial†	19.0	2.6	34.117 µg/L	34.117 ppb	07:25:36
1	K 766.490 Radial†	380.5	-19.3	-12.179 µg/L	-12.179 ppb	07:25:16
1	Mg 279.077 IEC†	7.2	-1.0	-10.482 µg/L	-10.482 ppb	07:25:36
1	Na 589.592 Radial†	540.1	-15.1	-4.0262 µg/L	-4.0262 ppb	07:25:16
1	Sr 421.552†	665.8	29.8	0.1785 µg/L	0.1785 ppb	07:25:16
1	Sc 361.383	1993559.8	1993559.8	100.87 %		07:26:38
1	Y 371.029	1259885.1	1259885.1	100.86 %		07:26:38
1	Ag 328.068†	-32.5	60.4	0.5439 µg/L	0.5439 ppb	07:26:44
1	As 188.979†	-1.3	1.5	3.1619 µg/L	3.1619 ppb	07:27:04
1	B 249.677†	312.2	-60.4	-2.8782 µg/L	-2.8782 ppb	07:26:44
1	Ba 233.527†	-0.7	23.3	0.6487 µg/L	0.6487 ppb	07:27:04
1	Be 313.107†	3944.3	76.6	0.0516 µg/L	0.0516 ppb	07:26:44
1	Cd 226.502†	-123.9	2.4	0.0653 µg/L	0.0653 ppb	07:27:04
1	Co 228.616†	-44.1	5.6	0.2970 µg/L	0.2970 ppb	07:27:04
1	Cr 267.716†	-75.6	27.2	0.6084 µg/L	0.6084 ppb	07:26:44
1	Cu 324.752†	4160.0	224.3	1.6495 µg/L	1.6495 ppb	07:26:44
1	Mn 257.610†	-113.7	35.1	0.1293 µg/L	0.1293 ppb	07:27:04
1	Mo 202.031†	15.7	3.0	0.3599 µg/L	0.3599 ppb	07:27:04
1	Ni 231.604†	331.4	-2.9	-0.1753 µg/L	-0.1753 ppb	07:27:04
1	P 214.914†	226.2	4.4	9.9572 µg/L	9.9572 ppb	07:27:04
1	Pb 220.353†	74.7	12.9	3.6047 µg/L	3.6047 ppb	07:27:04
1	S 181.975 Axial†	25.9	2.5	14.056 µg/L	14.056 ppb	07:27:04
1	Sb 206.836†	22.6	-1.6	-1.6932 µg/L	-1.6932 ppb	07:27:04
1	Se 196.026†	13.5	5.4	8.2627 µg/L	8.2627 ppb	07:27:04
1	SiO2†	2363.9	-45.7	-9.3393 µg/L	-9.3393 ppb	07:26:44
1	Si 251.611†	300.8	15.8	1.2782 µg/L	1.2782 ppb	07:27:04
1	Sn 189.927†	23.8	0.1	0.0935 µg/L	0.0935 ppb	07:27:04
1	Ti 334.940†	701.2	-8.6	-0.0195 µg/L	-0.0195 ppb	07:26:44
1	Tl 190.801†	-27.1	-2.3	-3.8802 µg/L	-3.8802 ppb	07:27:04
1	U 409.014†	-192.4	-4.5	-0.4254 µg/L	-0.4254 ppb	07:26:44
1	V 292.402†	-157.3	-40.7	-0.4836 µg/L	-0.4836 ppb	07:26:44
1	Zn 213.857†	674.1	36.0	1.0098 µg/L	1.0098 ppb	07:27:04
2	Sc RADIAL	77968.2	77968.2	99.3 %		07:25:42
2	Al 396.153Radial†	-14.8	14.6	9.4323 µg/L	9.4323 ppb	07:25:42
2	Ca 317.933Radial†	298.5	53.3	38.393 µg/L	38.393 ppb	07:26:02
2	Fe 238.204 Radial†	17.5	1.2	16.303 µg/L	16.303 ppb	07:26:02
2	K 766.490 Radial†	385.8	-10.4	-6.5605 µg/L	-6.5605 ppb	07:25:42
2	Mg 279.077 IEC†	9.4	1.3	13.314 µg/L	13.314 ppb	07:26:02
2	Na 589.592 Radial†	550.2	0.2	0.0436 µg/L	0.0436 ppb	07:25:42
2	Sr 421.552†	645.7	15.9	0.0949 µg/L	0.0949 ppb	07:25:42
2	Sc 361.383	1984323.3	1984323.3	100.40 %		07:27:10
2	Y 371.029	1254156.6	1254156.6	100.40 %		07:27:10
2	Ag 328.068†	-91.7	1.2	0.0138 µg/L	0.0138 ppb	07:27:16
2	As 188.979†	-2.0	0.7	1.5896 µg/L	1.5896 ppb	07:27:36
2	B 249.677†	327.7	-43.5	-2.0701 µg/L	-2.0701 ppb	07:27:16
2	Ba 233.527†	8.2	32.2	0.8987 µg/L	0.8987 ppb	07:27:36
2	Be 313.107†	3933.9	84.5	0.0568 µg/L	0.0568 ppb	07:27:16
2	Cd 226.502†	-121.3	4.5	0.1251 µg/L	0.1251 ppb	07:27:36
2	Co 228.616†	-42.6	6.9	0.3661 µg/L	0.3661 ppb	07:27:36
2	Cr 267.716†	-73.6	28.8	0.6454 µg/L	0.6454 ppb	07:27:16
2	Cu 324.752†	4165.2	248.7	1.8257 µg/L	1.8257 ppb	07:27:16
2	Mn 257.610†	-112.9	35.4	0.1272 µg/L	0.1272 ppb	07:27:36
2	Mo 202.031†	13.3	0.7	0.0864 µg/L	0.0864 ppb	07:27:36
2	Ni 231.604†	332.6	-0.1	-0.0061 µg/L	-0.0061 ppb	07:27:36
2	P 214.914†	224.1	3.4	7.5764 µg/L	7.5764 ppb	07:27:36
2	Pb 220.353†	64.5	3.1	0.8559 µg/L	0.8559 ppb	07:27:36

2	S 181.975 Axial†	26.1	2.9	15.942 µg/L	15.942 ppb	07:27:36
2	Sb 206.836†	24.3	0.1	0.1462 µg/L	0.1462 ppb	07:27:36
2	Se 196.026†	7.8	-0.1	-0.1524 µg/L	-0.1524 ppb	07:27:36
2	SiO2†	2367.4	-31.4	-6.4014 µg/L	-6.4014 ppb	07:27:16
2	Si 251.611†	304.7	21.1	1.7092 µg/L	1.7092 ppb	07:27:36
2	Sn 189.927†	21.9	-1.6	-0.8944 µg/L	-0.8944 ppb	07:27:36
2	Ti 334.940†	813.4	106.3	0.2565 µg/L	0.2565 ppb	07:27:16
2	Tl 190.801†	-18.8	5.8	9.6376 µg/L	9.6376 ppb	07:27:36
2	U 409.014†	-106.4	80.2	7.4496 µg/L	7.4496 ppb	07:27:16
2	V 292.402†	-96.2	19.5	0.2450 µg/L	0.2450 ppb	07:27:16
2	Zn 213.857†	676.3	41.4	1.1595 µg/L	1.1595 ppb	07:27:36
3	Sc RADIAL	76993.6	76993.6	98.1 %		07:26:07
3	Al 396.153Radial†	-10.3	19.0	12.303 µg/L	12.303 ppb	07:26:07
3	Ca 317.933Radial†	293.4	51.9	37.393 µg/L	37.393 ppb	07:26:28
3	Fe 238.204 Radial†	17.3	1.3	17.492 µg/L	17.492 ppb	07:26:28
3	K 766.490 Radial†	466.1	76.4	48.198 µg/L	48.198 ppb	07:26:07
3	Mg 279.077 IEC†	10.8	2.8	29.071 µg/L	29.071 ppb	07:26:28
3	Na 589.592 Radial†	551.6	8.6	2.2850 µg/L	2.2850 ppb	07:26:07
3	Sr 421.552†	632.5	10.7	0.0640 µg/L	0.0640 ppb	07:26:07
3	Sc 361.383	1972184.2	1972184.2	99.784 %		07:27:43
3	Y 371.029	1246487.9	1246487.9	99.790 %		07:27:43
3	Ag 328.068†	-57.6	34.9	0.3175 µg/L	0.3175 ppb	07:27:48
3	As 188.979†	0.0	2.7	5.9595 µg/L	5.9595 ppb	07:28:09
3	B 249.677†	280.9	-88.4	-4.1962 µg/L	-4.1962 ppb	07:27:48
3	Ba 233.527†	1.2	25.2	0.7034 µg/L	0.7034 ppb	07:28:09
3	Be 313.107†	3982.5	157.4	0.1058 µg/L	0.1058 ppb	07:27:48
3	Cd 226.502†	-126.4	-1.4	-0.0421 µg/L	-0.0421 ppb	07:28:09
3	Co 228.616†	-46.7	2.5	0.1352 µg/L	0.1352 ppb	07:28:09
3	Cr 267.716†	-34.3	67.7	1.5179 µg/L	1.5179 ppb	07:27:48
3	Cu 324.752†	4151.3	260.4	1.9116 µg/L	1.9116 ppb	07:27:48
3	Mn 257.610†	-94.3	53.3	0.1901 µg/L	0.1901 ppb	07:28:09
3	Mo 202.031†	22.7	10.2	1.2333 µg/L	1.2333 ppb	07:28:09
3	Ni 231.604†	326.2	-4.5	-0.2701 µg/L	-0.2701 ppb	07:28:09
3	P 214.914†	217.7	-1.7	-4.1071 µg/L	-4.1071 ppb	07:28:09
3	Pb 220.353†	69.4	8.3	2.3391 µg/L	2.3391 ppb	07:28:09
3	S 181.975 Axial†	21.9	-1.2	-6.5578 µg/L	-6.5578 ppb	07:28:09
3	Sb 206.836†	28.9	4.9	5.2194 µg/L	5.2194 ppb	07:28:09
3	Se 196.026†	12.0	4.1	6.2467 µg/L	6.2467 ppb	07:28:09
3	SiO2†	2336.3	-48.1	-9.8119 µg/L	-9.8119 ppb	07:27:48
3	Si 251.611†	282.9	1.1	0.0914 µg/L	0.0914 ppb	07:28:09
3	Sn 189.927†	26.2	2.8	1.5693 µg/L	1.5693 ppb	07:28:09
3	Ti 334.940†	834.7	132.6	0.3188 µg/L	0.3188 ppb	07:27:48
3	Tl 190.801†	-17.5	7.0	11.616 µg/L	11.616 ppb	07:28:09
3	U 409.014†	-152.2	33.7	3.1235 µg/L	3.1235 ppb	07:27:48
3	V 292.402†	-96.0	19.1	0.2476 µg/L	0.2476 ppb	07:27:48
3	Zn 213.857†	668.2	37.4	1.0462 µg/L	1.0462 ppb	07:28:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1983355.7	100.35 %		0.542			0.54%
Sc RADIAL	77889.8	99.2 %		1.10			1.10%
Y 371.029	1253509.9	100.35 %		0.538			0.54%
Ag 328.068†	32.2	0.2917 µg/L		0.26601	0.2917 ppb	0.26601	91.18%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	9.8	6.3076 µg/L		8.02730	6.3076 ppb	8.02730	127.26%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	1.6	3.5704 µg/L		2.21339	3.5704 ppb	2.21339	61.99%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-64.1	-3.0482 µg/L		1.07320	-3.0482 ppb	1.07320	35.21%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	26.9	0.7503 µg/L		0.13142	0.7503 ppb	0.13142	17.52%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	106.2	0.0714 µg/L		0.02991	0.0714 ppb	0.02991	41.91%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	52.6	37.918 µg/L		0.5015	37.918 ppb	0.5015	1.32%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	1.8	0.0494 µg/L		0.08475	0.0494 ppb	0.08475	171.44%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	5.0	0.2661 µg/L		0.11848	0.2661 ppb	0.11848	44.53%

Cr	267.716†	41.2	0.9239 µg/L	0.51475	0.9239 ppb	0.51475	55.72%
	QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu	324.752†	244.5	1.7956 µg/L	0.13360	1.7956 ppb	0.13360	7.44%
	QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe	238.204 Radial†	1.7	22.638 µg/L	9.9594	22.638 ppb	9.9594	43.99%
	QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K	766.490 Radial†	15.6	9.8193 µg/L	33.35541	9.8193 ppb	33.35541	339.69%
	QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg	279.077 IEC†	1.0	10.635 µg/L	19.9122	10.635 ppb	19.9122	187.24%
	QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn	257.610†	41.3	0.1489 µg/L	0.03575	0.1489 ppb	0.03575	24.02%
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo	202.031†	4.6	0.5599 µg/L	0.59902	0.5599 ppb	0.59902	106.99%
	QC value within limits for Mo 202.031 Recovery = Not calculated						
Na	589.592 Radial†	-2.1	-0.5659 µg/L	3.19943	-0.5659 ppb	3.19943	565.37%
	QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni	231.604†	-2.5	-0.1505 µg/L	0.13376	-0.1505 ppb	0.13376	88.87%
	QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	2.0	4.4755 µg/L	7.52743	4.4755 ppb	7.52743	168.19%
	QC value within limits for P 214.914 Recovery = Not calculated						
Pb	220.353†	8.1	2.2666 µg/L	1.37582	2.2666 ppb	1.37582	60.70%
	QC value within limits for Pb 220.353 Recovery = Not calculated						
S	181.975 Axial†	1.4	7.8136 µg/L	12.48166	7.8136 ppb	12.48166	159.74%
	QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb	206.836†	1.2	1.2241 µg/L	3.58015	1.2241 ppb	3.58015	292.46%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	3.1	4.7856 µg/L	4.39371	4.7856 ppb	4.39371	91.81%
	QC value within limits for Se 196.026 Recovery = Not calculated						
SiO2†		-41.7	-8.5176 µg/L	1.84779	-8.5176 ppb	1.84779	21.69%
	QC value within limits for SiO2 Recovery = Not calculated						
Si	251.611†	12.7	1.0263 µg/L	0.83785	1.0263 ppb	0.83785	81.64%
	QC value within limits for Si 251.611 Recovery = Not calculated						
Sn	189.927†	0.4	0.2561 µg/L	1.23985	0.2561 ppb	1.23985	484.11%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	421.552†	18.8	0.1125 µg/L	0.05926	0.1125 ppb	0.05926	52.69%
	QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti	334.940†	76.8	0.1853 µg/L	0.18004	0.1853 ppb	0.18004	97.16%
	QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl	190.801†	3.5	5.7912 µg/L	8.43388	5.7912 ppb	8.43388	145.63%
	QC value within limits for Tl 190.801 Recovery = Not calculated						
U	409.014†	36.5	3.3826 µg/L	3.94392	3.3826 ppb	3.94392	116.59%
	QC value within limits for U 409.014 Recovery = Not calculated						
V	292.402†	-0.7	0.0030 µg/L	0.42143	0.0030 ppb	0.42143	>999.9%
	QC value within limits for V 292.402 Recovery = Not calculated						
Zn	213.857†	38.3	1.0718 µg/L	0.07806	1.0718 ppb	0.07806	7.28%
	QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 07:31:57

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	78404.5	78404.5	99.9 %		07:32:33
1	Al 396.153Radial†	7731.1	7768.1	5020.1 µg/L	5020.1 ppb	07:32:33
1	Ca 317.933Radial†	7159.5	6919.2	4985.6 µg/L	4985.6 ppb	07:32:33
1	Fe 238.204 Radial†	403.0	387.0	5136.1 µg/L	5136.1 ppb	07:32:53
1	K 766.490 Radial†	8495.9	8105.4	5113.7 µg/L	5113.7 ppb	07:32:33
1	Mg 279.077 IEC†	513.2	505.5	5191.7 µg/L	5191.7 ppb	07:32:53
1	Na 589.592 Radial†	38220.9	37704.2	10038 µg/L	10038 ppb	07:32:33
1	Sr 421.552†	86574.7	86024.6	514.59 µg/L	514.59 ppb	07:32:33
1	Sc 361.383	1989532.0	1989532.0	100.66 %		07:33:57
1	Y 371.029	1252770.7	1252770.7	100.29 %		07:33:57
1	Ag 328.068†	58937.3	58642.5	533.16 µg/L	533.16 ppb	07:34:03
1	As 188.979†	248.5	249.6	543.09 µg/L	543.09 ppb	07:34:23
1	B 249.677†	11347.6	10903.0	514.62 µg/L	514.62 ppb	07:34:03
1	Ba 233.527†	19025.7	18924.6	529.58 µg/L	529.58 ppb	07:34:03
1	Be 313.107†	782703.9	773725.4	520.39 µg/L	520.39 ppb	07:33:57
1	Cd 226.502†	18632.2	18635.1	527.94 µg/L	527.94 ppb	07:34:03
1	Co 228.616†	9984.2	9967.9	529.65 µg/L	529.65 ppb	07:34:03
1	Cr 267.716†	23934.2	23879.0	535.39 µg/L	535.39 ppb	07:34:03
1	Cu 324.752†	77009.2	72603.0	533.06 µg/L	533.06 ppb	07:34:03
1	Mn 257.610†	148209.6	147383.3	522.88 µg/L	522.88 ppb	07:33:57
1	Mo 202.031†	4454.4	4412.5	534.75 µg/L	534.75 ppb	07:34:23
1	Ni 231.604†	9137.7	8746.2	529.01 µg/L	529.01 ppb	07:34:03
1	P 214.914†	1392.9	1163.9	2631.5 µg/L	2631.5 ppb	07:34:23
1	Pb 220.353†	2002.3	1928.0	541.02 µg/L	541.02 ppb	07:34:23
1	S 181.975 Axial†	216.5	191.9	1066.9 µg/L	1066.9 ppb	07:34:23
1	Sb 206.836†	535.0	507.5	539.00 µg/L	539.00 ppb	07:34:23
1	Se 196.026†	368.2	357.8	557.17 µg/L	557.17 ppb	07:34:23
1	SiO2†	30715.9	28124.6	5742.4 µg/L	5742.4 ppb	07:34:03
1	Si 251.611†	33704.7	33200.7	2689.4 µg/L	2689.4 ppb	07:34:03
1	Sn 189.927†	1017.2	987.1	558.95 µg/L	558.95 ppb	07:34:23
1	Ti 334.940†	219557.7	217410.7	525.22 µg/L	525.22 ppb	07:33:57
1	Tl 190.801†	300.0	322.5	541.68 µg/L	541.68 ppb	07:34:23
1	U 409.014†	5640.9	5790.1	537.15 µg/L	537.15 ppb	07:34:03
1	V 292.402†	44482.6	44305.5	539.29 µg/L	539.29 ppb	07:34:03
1	Zn 213.857†	19674.3	18912.7	527.91 µg/L	527.91 ppb	07:34:03
2	Sc RADIAL	79179.4	79179.4	101 %		07:32:59
2	Al 396.153Radial†	7802.9	7763.5	5017.3 µg/L	5017.3 ppb	07:32:59
2	Ca 317.933Radial†	7306.7	6995.0	5040.2 µg/L	5040.2 ppb	07:32:59
2	Fe 238.204 Radial†	403.6	383.7	5092.6 µg/L	5092.6 ppb	07:33:19
2	K 766.490 Radial†	8619.6	8144.8	5138.6 µg/L	5138.6 ppb	07:32:59
2	Mg 279.077 IEC†	512.1	499.4	5128.6 µg/L	5128.6 ppb	07:33:19
2	Na 589.592 Radial†	38542.7	37648.8	10023 µg/L	10023 ppb	07:32:59
2	Sr 421.552†	87581.6	86174.5	515.49 µg/L	515.49 ppb	07:32:59
2	Sc 361.383	1982168.5	1982168.5	100.29 %		07:34:30
2	Y 371.029	1248792.9	1248792.9	99.975 %		07:34:30
2	Ag 328.068†	58861.5	58784.4	534.45 µg/L	534.45 ppb	07:34:36
2	As 188.979†	244.4	246.4	536.02 µg/L	536.02 ppb	07:34:57
2	B 249.677†	11359.2	10956.5	517.18 µg/L	517.18 ppb	07:34:36
2	Ba 233.527†	18987.2	18956.5	530.47 µg/L	530.47 ppb	07:34:36
2	Be 313.107†	781864.4	775776.9	521.77 µg/L	521.77 ppb	07:34:30
2	Cd 226.502†	18634.3	18705.9	529.96 µg/L	529.96 ppb	07:34:36
2	Co 228.616†	10009.5	10030.0	532.94 µg/L	532.94 ppb	07:34:36
2	Cr 267.716†	23845.9	23879.3	535.39 µg/L	535.39 ppb	07:34:36
2	Cu 324.752†	76935.5	72813.7	534.60 µg/L	534.60 ppb	07:34:36
2	Mn 257.610†	147856.8	147578.5	523.57 µg/L	523.57 ppb	07:34:30
2	Mo 202.031†	4404.7	4379.4	530.74 µg/L	530.74 ppb	07:34:57
2	Ni 231.604†	9137.0	8779.3	531.00 µg/L	531.00 ppb	07:34:36
2	P 214.914†	1399.9	1176.1	2659.3 µg/L	2659.3 ppb	07:34:57
2	Pb 220.353†	1985.8	1918.9	538.45 µg/L	538.45 ppb	07:34:57

2	S 181.975 Axial†	222.0	198.2	1101.9 µg/L	1101.9 ppb	07:34:57
2	Sb 206.836†	532.5	507.0	538.42 µg/L	538.42 ppb	07:34:57
2	Se 196.026†	357.7	348.8	543.45 µg/L	543.45 ppb	07:34:57
2	SiO2†	30736.9	28258.9	5769.8 µg/L	5769.8 ppb	07:34:36
2	Si 251.611†	33642.0	33262.6	2694.4 µg/L	2694.4 ppb	07:34:36
2	Sn 189.927†	999.7	973.3	551.20 µg/L	551.20 ppb	07:34:57
2	Ti 334.940†	219234.7	217898.9	526.41 µg/L	526.41 ppb	07:34:30
2	Tl 190.801†	298.2	321.9	540.64 µg/L	540.64 ppb	07:34:57
2	U 409.014†	5560.2	5730.3	531.60 µg/L	531.60 ppb	07:34:36
2	V 292.402†	44426.5	44413.8	540.55 µg/L	540.55 ppb	07:34:36
2	Zn 213.857†	19632.3	18943.5	528.76 µg/L	528.76 ppb	07:34:36
3	Sc RADIAL	79551.9	79551.9	101 %		07:33:25
3	Al 396.153Radial†	7787.9	7712.5	4986.0 µg/L	4986.0 ppb	07:33:25
3	Ca 317.933Radial†	7220.6	6876.1	4954.6 µg/L	4954.6 ppb	07:33:25
3	Fe 238.204 Radial†	403.4	381.6	5063.0 µg/L	5063.0 ppb	07:33:45
3	K 766.490 Radial†	8610.1	8095.5	5107.5 µg/L	5107.5 ppb	07:33:25
3	Mg 279.077 IEC†	513.4	498.3	5116.1 µg/L	5116.1 ppb	07:33:45
3	Na 589.592 Radial†	38326.7	37256.8	9919.0 µg/L	9919.0 ppb	07:33:25
3	Sr 421.552†	87079.6	85272.7	510.09 µg/L	510.09 ppb	07:33:25
3	Sc 361.383	2003843.7	2003843.7	101.39 %		07:35:04
3	Y 371.029	1262538.1	1262538.1	101.08 %		07:35:04
3	Ag 328.068†	55898.8	55227.4	501.97 µg/L	501.97 ppb	07:35:09
3	As 188.979†	213.1	212.9	463.18 µg/L	463.18 ppb	07:35:30
3	B 249.677†	10733.6	10217.0	482.06 µg/L	482.06 ppb	07:35:09
3	Ba 233.527†	17469.3	17254.4	482.83 µg/L	482.83 ppb	07:35:09
3	Be 313.107†	748609.8	734543.9	494.04 µg/L	494.04 ppb	07:35:04
3	Cd 226.502†	17089.2	16980.9	481.03 µg/L	481.03 ppb	07:35:09
3	Co 228.616†	9092.8	9017.8	479.08 µg/L	479.08 ppb	07:35:09
3	Cr 267.716†	21147.3	20960.4	469.95 µg/L	469.95 ppb	07:35:09
3	Cu 324.752†	70522.8	65658.9	482.14 µg/L	482.14 ppb	07:35:09
3	Mn 257.610†	142084.2	140290.0	497.73 µg/L	497.73 ppb	07:35:04
3	Mo 202.031†	3719.5	3656.1	443.11 µg/L	443.11 ppb	07:35:30
3	Ni 231.604†	8328.3	7883.1	476.80 µg/L	476.80 ppb	07:35:09
3	P 214.914†	1226.5	989.9	2234.6 µg/L	2234.6 ppb	07:35:30
3	Pb 220.353†	1756.8	1671.6	468.99 µg/L	468.99 ppb	07:35:30
3	S 181.975 Axial†	199.0	173.1	962.52 µg/L	962.52 ppb	07:35:30
3	Sb 206.836†	465.2	434.8	461.36 µg/L	461.36 ppb	07:35:30
3	Se 196.026†	328.3	315.9	493.95 µg/L	493.95 ppb	07:35:30
3	SiO2†	28746.2	25963.9	5301.2 µg/L	5301.2 ppb	07:35:09
3	Si 251.611†	31317.2	30606.7	2479.3 µg/L	2479.3 ppb	07:35:09
3	Sn 189.927†	841.7	806.7	457.27 µg/L	457.27 ppb	07:35:30
3	Ti 334.940†	208790.2	205232.5	495.79 µg/L	495.79 ppb	07:35:04
3	Tl 190.801†	266.4	287.3	482.80 µg/L	482.80 ppb	07:35:30
3	U 409.014†	4897.8	5017.1	465.32 µg/L	465.32 ppb	07:35:09
3	V 292.402†	40212.7	39778.4	483.88 µg/L	483.88 ppb	07:35:09
3	Zn 213.857†	17981.6	17103.5	477.37 µg/L	477.37 ppb	07:35:09

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1991848.1	100.78 %	0.558			0.55%
Sc RADIAL	79045.3	101 %	0.7			0.74%
Y 371.029	1254700.6	100.45 %	0.566			0.56%
Ag 328.068†	57551.4	523.19 µg/L	18.390	523.19 ppb	18.390	3.51%
QC value within limits for Ag 328.068 Recovery = 104.64%						
Al 396.153Radial†	7748.0	5007.8 µg/L	18.92	5007.8 ppb	18.92	0.38%
QC value within limits for Al 396.153Radial Recovery = 100.16%						
As 188.979†	236.3	514.09 µg/L	44.237	514.09 ppb	44.237	8.60%
QC value within limits for As 188.979 Recovery = 102.82%						
B 249.677†	10692.2	504.62 µg/L	19.580	504.62 ppb	19.580	3.88%
QC value within limits for B 249.677 Recovery = 100.92%						
Ba 233.527†	18378.5	514.29 µg/L	27.252	514.29 ppb	27.252	5.30%
QC value within limits for Ba 233.527 Recovery = 102.86%						
Be 313.107†	761348.7	512.06 µg/L	15.628	512.06 ppb	15.628	3.05%
QC value within limits for Be 313.107 Recovery = 102.41%						
Ca 317.933Radial†	6930.1	4993.5 µg/L	43.35	4993.5 ppb	43.35	0.87%
QC value within limits for Ca 317.933Radial Recovery = 99.87%						
Cd 226.502†	18107.3	512.98 µg/L	27.684	512.98 ppb	27.684	5.40%
QC value within limits for Cd 226.502 Recovery = 102.60%						
Co 228.616†	9671.9	513.89 µg/L	30.189	513.89 ppb	30.189	5.87%

Cr	267.716†	22906.2	513.58 µg/L	37.779	513.58 ppb	37.779	7.36%
QC value within limits for Cr 267.716 Recovery = 102.72%							
Cu	324.752†	70358.5	516.60 µg/L	29.857	516.60 ppb	29.857	5.78%
QC value within limits for Cu 324.752 Recovery = 103.32%							
Fe	238.204 Radial†	384.1	5097.2 µg/L	36.76	5097.2 ppb	36.76	0.72%
QC value within limits for Fe 238.204 Radial Recovery = 101.94%							
K	766.490 Radial†	8115.2	5119.9 µg/L	16.47	5119.9 ppb	16.47	0.32%
QC value within limits for K 766.490 Radial Recovery = 102.40%							
Mg	279.077 IEC†	501.1	5145.5 µg/L	40.56	5145.5 ppb	40.56	0.79%
QC value within limits for Mg 279.077 IEC Recovery = 102.91%							
Mn	257.610†	145083.9	514.73 µg/L	14.723	514.73 ppb	14.723	2.86%
QC value within limits for Mn 257.610 Recovery = 102.95%							
Mo	202.031†	4149.3	502.87 µg/L	51.791	502.87 ppb	51.791	10.30%
QC value within limits for Mo 202.031 Recovery = 100.57%							
Na	589.592 Radial†	37536.6	9993.5 µg/L	64.93	9993.5 ppb	64.93	0.65%
QC value within limits for Na 589.592 Radial Recovery = 99.94%							
Ni	231.604†	8469.5	512.27 µg/L	30.731	512.27 ppb	30.731	6.00%
QC value within limits for Ni 231.604 Recovery = 102.45%							
P	214.914†	1110.0	2508.5 µg/L	237.62	2508.5 ppb	237.62	9.47%
QC value within limits for P 214.914 Recovery = 100.34%							
Pb	220.353†	1839.5	516.15 µg/L	40.866	516.15 ppb	40.866	7.92%
QC value within limits for Pb 220.353 Recovery = 103.23%							
S	181.975 Axial†	187.7	1043.8 µg/L	72.49	1043.8 ppb	72.49	6.95%
QC value within limits for S 181.975 Axial Recovery = 104.38%							
Sb	206.836†	483.1	512.93 µg/L	44.656	512.93 ppb	44.656	8.71%
QC value within limits for Sb 206.836 Recovery = 102.59%							
Se	196.026†	340.8	531.52 µg/L	33.257	531.52 ppb	33.257	6.26%
QC value within limits for Se 196.026 Recovery = 106.30%							
SiO2†		27449.1	5604.5 µg/L	262.98	5604.5 ppb	262.98	4.69%
QC value within limits for SiO2 Recovery = 104.81%							
Si	251.611†	32356.7	2621.0 µg/L	122.79	2621.0 ppb	122.79	4.68%
QC value within limits for Si 251.611 Recovery = 104.84%							
Sn	189.927†	922.4	522.47 µg/L	56.603	522.47 ppb	56.603	10.83%
QC value within limits for Sn 189.927 Recovery = 104.49%							
Sr	421.552†	85823.9	513.39 µg/L	2.890	513.39 ppb	2.890	0.56%
QC value within limits for Sr 421.552 Recovery = 102.68%							
Ti	334.940†	213514.0	515.81 µg/L	17.346	515.81 ppb	17.346	3.36%
QC value within limits for Ti 334.940 Recovery = 103.16%							
Tl	190.801†	310.6	521.71 µg/L	33.698	521.71 ppb	33.698	6.46%
QC value within limits for Tl 190.801 Recovery = 104.34%							
U	409.014†	5512.5	511.36 µg/L	39.968	511.36 ppb	39.968	7.82%
QC value within limits for U 409.014 Recovery = 102.27%							
V	292.402†	42832.6	521.24 µg/L	32.361	521.24 ppb	32.361	6.21%
QC value within limits for V 292.402 Recovery = 104.25%							
Zn	213.857†	18319.9	511.35 µg/L	29.428	511.35 ppb	29.428	5.76%
QC value within limits for Zn 213.857 Recovery = 102.27%							

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 07:35:40

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	77019.7	77019.7	98.1 %		07:36:12
1	Al 396.153Radial†	-34.7	-5.8	-3.7856 µg/L	-3.7856 ppb	07:36:12
1	Ca 317.933Radial†	296.0	54.5	39.247 µg/L	39.247 ppb	07:36:32
1	Fe 238.204 Radial†	17.5	1.5	19.363 µg/L	19.363 ppb	07:36:32
1	K 766.490 Radial†	407.9	17.0	10.717 µg/L	10.717 ppb	07:36:12
1	Mg 279.077 IEC†	11.2	3.3	33.657 µg/L	33.657 ppb	07:36:32
1	Na 589.592 Radial†	538.8	-4.6	-1.2288 µg/L	-1.2288 ppb	07:36:12
1	Sr 421.552†	660.3	38.8	0.2318 µg/L	0.2318 ppb	07:36:12
1	Sc 361.383	1968002.7	1968002.7	99.572 %		07:37:34
1	Y 371.029	1244089.6	1244089.6	99.598 %		07:37:34
1	Ag 328.068†	-83.7	8.6	0.0747 µg/L	0.0747 ppb	07:37:40
1	As 188.979†	1.9	4.7	10.164 µg/L	10.164 ppb	07:38:01
1	B 249.677†	290.8	-77.9	-3.7004 µg/L	-3.7004 ppb	07:38:01
1	Ba 233.527†	-26.6	-2.8	-0.0787 µg/L	-0.0787 ppb	07:38:01
1	Be 313.107†	3872.5	55.4	0.0372 µg/L	0.0372 ppb	07:37:40
1	Cd 226.502†	-130.3	-5.5	-0.1594 µg/L	-0.1594 ppb	07:38:01
1	Co 228.616†	-45.8	3.3	0.1744 µg/L	0.1744 ppb	07:38:01
1	Cr 267.716†	-65.6	36.3	0.8119 µg/L	0.8119 ppb	07:37:40
1	Cu 324.752†	4069.3	186.8	1.3723 µg/L	1.3723 ppb	07:37:40
1	Mn 257.610†	-114.7	32.7	0.1170 µg/L	0.1170 ppb	07:38:01
1	Mo 202.031†	17.6	5.1	0.6237 µg/L	0.6237 ppb	07:38:01
1	Ni 231.604†	326.2	-3.9	-0.2333 µg/L	-0.2333 ppb	07:38:01
1	P 214.914†	215.1	-3.9	-9.0821 µg/L	-9.0821 ppb	07:38:01
1	Pb 220.353†	61.2	0.3	0.0943 µg/L	0.0943 ppb	07:38:01
1	S 181.975 Axial†	26.4	3.4	18.935 µg/L	18.935 ppb	07:38:01
1	Sb 206.836†	24.1	0.2	0.2314 µg/L	0.2314 ppb	07:38:01
1	Se 196.026†	11.7	3.8	5.7398 µg/L	5.7398 ppb	07:38:01
1	SiO2†	2299.7	-79.8	-16.296 µg/L	-16.296 ppb	07:37:40
1	Si 251.611†	278.4	-2.8	-0.2266 µg/L	-0.2266 ppb	07:38:01
1	Sn 189.927†	20.0	-3.3	-1.8645 µg/L	-1.8645 ppb	07:38:01
1	Ti 334.940†	738.6	37.9	0.0895 µg/L	0.0895 ppb	07:37:40
1	Tl 190.801†	-27.0	-2.6	-4.3559 µg/L	-4.3559 ppb	07:38:01
1	U 409.014†	-200.1	-14.7	-1.3734 µg/L	-1.3734 ppb	07:37:40
1	V 292.402†	-164.4	-49.8	-0.5928 µg/L	-0.5928 ppb	07:37:40
1	Zn 213.857†	667.8	38.4	1.0765 µg/L	1.0765 ppb	07:38:01
2	Sc RADIAL	76695.1	76695.1	97.7 %		07:36:38
2	Al 396.153Radial†	-17.9	11.2	7.2527 µg/L	7.2527 ppb	07:36:38
2	Ca 317.933Radial†	295.2	54.9	39.546 µg/L	39.546 ppb	07:36:58
2	Fe 238.204 Radial†	15.8	-0.1	-1.6866 µg/L	-1.6866 ppb	07:36:58
2	K 766.490 Radial†	418.4	29.4	18.569 µg/L	18.569 ppb	07:36:38
2	Mg 279.077 IEC†	9.0	1.0	10.497 µg/L	10.497 ppb	07:36:58
2	Na 589.592 Radial†	516.9	-24.7	-6.5805 µg/L	-6.5805 ppb	07:36:38
2	Sr 421.552†	666.5	47.9	0.2868 µg/L	0.2868 ppb	07:36:38
2	Sc 361.383	1982341.8	1982341.8	100.30 %		07:38:07
2	Y 371.029	1253153.4	1253153.4	100.32 %		07:38:07
2	Ag 328.068†	-23.7	68.9	0.6255 µg/L	0.6255 ppb	07:38:12
2	As 188.979†	-2.2	0.5	1.0761 µg/L	1.0761 ppb	07:38:33
2	B 249.677†	269.7	-101.1	-4.7860 µg/L	-4.7860 ppb	07:38:33
2	Ba 233.527†	-24.6	-0.6	-0.0157 µg/L	-0.0157 ppb	07:38:33
2	Be 313.107†	3923.3	77.9	0.0523 µg/L	0.0523 ppb	07:38:12
2	Cd 226.502†	-124.2	1.5	0.0420 µg/L	0.0420 ppb	07:38:33
2	Co 228.616†	-43.1	6.4	0.3390 µg/L	0.3390 ppb	07:38:33
2	Cr 267.716†	-74.0	28.3	0.6349 µg/L	0.6349 ppb	07:38:12
2	Cu 324.752†	4112.5	200.3	1.4686 µg/L	1.4686 ppb	07:38:12
2	Mn 257.610†	-103.5	44.7	0.1577 µg/L	0.1577 ppb	07:38:33
2	Mo 202.031†	19.2	6.6	0.7939 µg/L	0.7939 ppb	07:38:33
2	Ni 231.604†	323.8	-8.6	-0.5205 µg/L	-0.5205 ppb	07:38:33
2	P 214.914†	214.3	-6.2	-14.443 µg/L	-14.443 ppb	07:38:33
2	Pb 220.353†	64.5	3.2	0.8939 µg/L	0.8939 ppb	07:38:33

2	S 181.975 Axial†	25.5	2.3	12.570 µg/L	12.570 ppb	07:38:33
2	Sb 206.836†	25.6	1.5	1.5710 µg/L	1.5710 ppb	07:38:33
2	Se 196.026†	6.3	-1.7	-2.5664 µg/L	-2.5664 ppb	07:38:33
2	SiO2†	2336.2	-60.1	-12.272 µg/L	-12.272 ppb	07:38:12
2	Si 251.611†	300.6	17.3	1.4028 µg/L	1.4028 ppb	07:38:33
2	Sn 189.927†	22.8	-0.8	-0.4227 µg/L	-0.4227 ppb	07:38:33
2	Ti 334.940†	783.0	76.8	0.1856 µg/L	0.1856 ppb	07:38:12
2	Tl 190.801†	-21.7	2.9	4.7553 µg/L	4.7553 ppb	07:38:33
2	U 409.014†	-245.2	-58.2	-5.4122 µg/L	-5.4122 ppb	07:38:12
2	V 292.402†	-71.1	44.4	0.5365 µg/L	0.5365 ppb	07:38:12
2	Zn 213.857†	672.3	38.0	1.0680 µg/L	1.0680 ppb	07:38:33
3	Sc RADIAL	76626.5	76626.5	97.6 %		07:37:04
3	Al 396.153Radial†	-45.9	-17.5	-11.350 µg/L	-11.350 ppb	07:37:04
3	Ca 317.933Radial†	298.8	58.9	42.439 µg/L	42.439 ppb	07:37:24
3	Fe 238.204 Radial†	18.6	2.7	35.697 µg/L	35.697 ppb	07:37:24
3	K 766.490 Radial†	414.7	26.0	16.435 µg/L	16.435 ppb	07:37:04
3	Mg 279.077 IEC†	8.2	0.2	2.4057 µg/L	2.4057 ppb	07:37:24
3	Na 589.592 Radial†	488.4	-53.4	-14.228 µg/L	-14.228 ppb	07:37:04
3	Sr 421.552†	686.2	68.7	0.4112 µg/L	0.4112 ppb	07:37:04
3	Sc 361.383	1964755.1	1964755.1	99.408 %		07:38:39
3	Y 371.029	1241226.6	1241226.6	99.369 %		07:38:39
3	Ag 328.068†	-73.7	18.4	0.1727 µg/L	0.1727 ppb	07:38:44
3	As 188.979†	-4.9	-2.2	-4.8073 µg/L	-4.8073 ppb	07:39:05
3	B 249.677†	270.2	-98.1	-4.6640 µg/L	-4.6640 ppb	07:39:05
3	Ba 233.527†	-22.9	0.9	0.0268 µg/L	0.0268 ppb	07:39:05
3	Be 313.107†	3933.2	122.8	0.0826 µg/L	0.0826 ppb	07:38:44
3	Cd 226.502†	-110.9	13.7	0.3848 µg/L	0.3848 ppb	07:39:05
3	Co 228.616†	-57.8	-8.9	-0.4719 µg/L	-0.4719 ppb	07:39:05
3	Cr 267.716†	-74.4	27.3	0.6120 µg/L	0.6120 ppb	07:38:44
3	Cu 324.752†	4031.6	155.7	1.1466 µg/L	1.1466 ppb	07:38:44
3	Mn 257.610†	-123.7	23.4	0.0875 µg/L	0.0875 ppb	07:39:05
3	Mo 202.031†	20.0	7.6	0.9166 µg/L	0.9166 ppb	07:39:05
3	Ni 231.604†	331.1	1.7	0.1015 µg/L	0.1015 ppb	07:39:05
3	P 214.914†	213.6	-5.0	-11.532 µg/L	-11.532 ppb	07:39:05
3	Pb 220.353†	67.5	6.8	1.8967 µg/L	1.8967 ppb	07:39:05
3	S 181.975 Axial†	24.3	1.3	7.1232 µg/L	7.1232 ppb	07:39:05
3	Sb 206.836†	26.6	2.7	2.8820 µg/L	2.8820 ppb	07:39:05
3	Se 196.026†	8.1	0.2	0.4673 µg/L	0.4673 ppb	07:39:05
3	SiO2†	2358.1	-17.3	-3.5266 µg/L	-3.5266 ppb	07:38:44
3	Si 251.611†	296.5	15.8	1.2815 µg/L	1.2815 ppb	07:39:05
3	Sn 189.927†	27.8	4.5	2.5389 µg/L	2.5389 ppb	07:39:05
3	Ti 334.940†	793.1	93.9	0.2276 µg/L	0.2276 ppb	07:38:44
3	Tl 190.801†	-25.4	-1.0	-1.6725 µg/L	-1.6725 ppb	07:39:05
3	U 409.014†	-211.3	-26.4	-2.4568 µg/L	-2.4568 ppb	07:38:44
3	V 292.402†	-65.7	49.2	0.5998 µg/L	0.5998 ppb	07:38:44
3	Zn 213.857†	667.0	38.7	1.0840 µg/L	1.0840 ppb	07:39:05

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1971699.8	99.759 %	0.4735			0.47%
Sc RADIAL	76780.4	97.8 %	0.27			0.27%
Y 371.029	1246156.5	99.764 %	0.4985			0.50%
Ag 328.068†	32.0	0.2910 µg/L	0.29386	0.2910 ppb	0.29386	101.00%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-4.0	-2.6277 µg/L	9.35532	-2.6277 ppb	9.35532	356.03%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.0	2.1442 µg/L	7.54248	2.1442 ppb	7.54248	351.77%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-92.4	-4.3835 µg/L	0.59471	-4.3835 ppb	0.59471	13.57%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.8	-0.0225 µg/L	0.05308	-0.0225 ppb	0.05308	235.62%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	85.4	0.0574 µg/L	0.02310	0.0574 ppb	0.02310	40.26%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	56.1	40.411 µg/L	1.7627	40.411 ppb	1.7627	4.36%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	3.2	0.0891 µg/L	0.27515	0.0891 ppb	0.27515	308.77%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.3	0.0138 µg/L	0.42863	0.0138 ppb	0.42863	>999.9%

Cr	267.716†	30.6	0.6863 µg/L	0.10942	0.6863 ppb	0.10942	15.94%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	180.9	1.3292 µg/L	0.16528	1.3292 ppb	0.16528	12.44%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	1.3	17.791 µg/L	18.7413	17.791 ppb	18.7413	105.34%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	24.2	15.240 µg/L	4.0600	15.240 ppb	4.0600	26.64%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	1.5	15.520 µg/L	16.2201	15.520 ppb	16.2201	104.51%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	33.6	0.1207 µg/L	0.03522	0.1207 ppb	0.03522	29.18%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	6.4	0.7780 µg/L	0.14709	0.7780 ppb	0.14709	18.91%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-27.6	-7.3458 µg/L	6.53336	-7.3458 ppb	6.53336	88.94%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-3.6	-0.2174 µg/L	0.31130	-0.2174 ppb	0.31130	143.18%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-5.0	-11.686 µg/L	2.6838	-11.686 ppb	2.6838	22.97%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	3.4	0.9617 µg/L	0.90310	0.9617 ppb	0.90310	93.91%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	2.3	12.876 µg/L	5.9118	12.876 ppb	5.9118	45.91%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	1.5	1.5615 µg/L	1.32534	1.5615 ppb	1.32534	84.88%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	0.8	1.2136 µg/L	4.20307	1.2136 ppb	4.20307	346.34%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		-52.4	-10.698 µg/L	6.5285	-10.698 ppb	6.5285	61.02%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	10.1	0.8192 µg/L	0.90774	0.8192 ppb	0.90774	110.80%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	0.1	0.0839 µg/L	2.24501	0.0839 ppb	2.24501	>999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	51.8	0.3099 µg/L	0.09190	0.3099 ppb	0.09190	29.65%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	69.6	0.1675 µg/L	0.07078	0.1675 ppb	0.07078	42.25%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-0.2	-0.4244 µg/L	4.68206	-0.4244 ppb	4.68206	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-33.1	-3.0808 µg/L	2.09046	-3.0808 ppb	2.09046	67.85%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	14.6	0.1811 µg/L	0.67103	0.1811 ppb	0.67103	370.48%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	38.4	1.0762 µg/L	0.00799	1.0762 ppb	0.00799	0.74%
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: 1/29/2010 08:11:28
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	77115.2	77115.2	98.3 %		08:12:06
1	Al 396.153Radial†	7765.7	7932.7	5126.8 µg/L	5126.8 ppb	08:12:06
1	Ca 317.933Radial†	6951.9	6827.8	4919.8 µg/L	4919.8 ppb	08:12:27
1	Fe 238.204 Radial†	401.4	392.2	5204.3 µg/L	5204.3 ppb	08:12:27
1	K 766.490 Radial†	8525.3	8277.5	5222.3 µg/L	5222.3 ppb	08:12:06
1	Mg 279.077 IEC†	508.6	509.4	5231.3 µg/L	5231.3 ppb	08:12:27
1	Na 589.592 Radial†	37777.7	37892.9	10088 µg/L	10088 ppb	08:12:06
1	Sr 421.552†	84968.0	85838.3	513.48 µg/L	513.48 ppb	08:12:06
1	Sc 361.383	1956039.0	1956039.0	98.967 %		08:13:30
1	Y 371.029	1232820.7	1232820.7	98.696 %		08:13:30
1	Ag 328.068†	58475.3	59178.2	538.01 µg/L	538.01 ppb	08:13:36
1	As 188.979†	247.1	252.5	549.26 µg/L	549.26 ppb	08:13:56
1	B 249.677†	11203.1	10950.1	516.82 µg/L	516.82 ppb	08:13:36
1	Ba 233.527†	18729.7	18949.2	530.27 µg/L	530.27 ppb	08:13:36
1	Be 313.107†	771890.5	776113.2	521.99 µg/L	521.99 ppb	08:13:30
1	Cd 226.502†	18236.9	18552.5	525.60 µg/L	525.60 ppb	08:13:36
1	Co 228.616†	9819.3	9971.1	529.80 µg/L	529.80 ppb	08:13:36
1	Cr 267.716†	23540.9	23888.7	535.60 µg/L	535.60 ppb	08:13:36
1	Cu 324.752†	76420.8	73318.4	538.32 µg/L	538.32 ppb	08:13:36
1	Mn 257.610†	146487.7	148164.5	525.66 µg/L	525.66 ppb	08:13:30
1	Mo 202.031†	4358.3	4391.2	532.17 µg/L	532.17 ppb	08:13:56
1	Ni 231.604†	9005.8	8768.3	530.34 µg/L	530.34 ppb	08:13:36
1	P 214.914†	1366.9	1161.4	2625.0 µg/L	2625.0 ppb	08:13:56
1	Pb 220.353†	1943.5	1902.6	533.88 µg/L	533.88 ppb	08:13:56
1	S 181.975 Axial†	215.1	194.2	1079.9 µg/L	1079.9 ppb	08:13:56
1	Sb 206.836†	529.8	511.3	543.00 µg/L	543.00 ppb	08:13:56
1	Se 196.026†	352.7	348.4	543.32 µg/L	543.32 ppb	08:13:56
1	SiO2†	30571.4	28501.1	5819.2 µg/L	5819.2 ppb	08:13:36
1	Si 251.611†	33557.4	33625.2	2723.8 µg/L	2723.8 ppb	08:13:36
1	Sn 189.927†	982.6	969.4	548.98 µg/L	548.98 ppb	08:13:56
1	Ti 334.940†	218110.7	219683.3	530.71 µg/L	530.71 ppb	08:13:30
1	Tl 190.801†	289.5	317.1	532.64 µg/L	532.64 ppb	08:13:56
1	U 409.014†	5622.9	5867.8	544.37 µg/L	544.37 ppb	08:13:36
1	V 292.402†	43889.7	44463.1	541.18 µg/L	541.18 ppb	08:13:36
1	Zn 213.857†	19414.5	18984.9	529.92 µg/L	529.92 ppb	08:13:36
2	Sc RADIAL	77548.0	77548.0	98.8 %		08:12:32
2	Al 396.153Radial†	7827.9	7951.5	5139.1 µg/L	5139.1 ppb	08:12:32
2	Ca 317.933Radial†	6962.2	6798.8	4898.8 µg/L	4898.8 ppb	08:12:53
2	Fe 238.204 Radial†	401.5	389.9	5174.8 µg/L	5174.8 ppb	08:12:53
2	K 766.490 Radial†	8488.1	8191.4	5168.0 µg/L	5168.0 ppb	08:12:32
2	Mg 279.077 IEC†	506.0	504.0	5175.5 µg/L	5175.5 ppb	08:12:53
2	Na 589.592 Radial†	38019.8	37923.3	10096 µg/L	10096 ppb	08:12:32
2	Sr 421.552†	85821.4	86219.3	515.76 µg/L	515.76 ppb	08:12:32
2	Sc 361.383	1948863.8	1948863.8	98.604 %		08:14:04
2	Y 371.029	1228108.1	1228108.1	98.319 %		08:14:04
2	Ag 328.068†	58077.5	58992.4	536.32 µg/L	536.32 ppb	08:14:09
2	As 188.979†	240.4	246.6	536.43 µg/L	536.43 ppb	08:14:30
2	B 249.677†	11073.8	10860.6	512.59 µg/L	512.59 ppb	08:14:09
2	Ba 233.527†	18542.3	18828.8	526.90 µg/L	526.90 ppb	08:14:09
2	Be 313.107†	769843.4	776908.7	522.53 µg/L	522.53 ppb	08:14:04
2	Cd 226.502†	18143.5	18525.6	524.84 µg/L	524.84 ppb	08:14:09
2	Co 228.616†	9748.7	9936.0	527.93 µg/L	527.93 ppb	08:14:09
2	Cr 267.716†	23366.4	23799.4	533.60 µg/L	533.60 ppb	08:14:09
2	Cu 324.752†	75843.9	73017.7	536.11 µg/L	536.11 ppb	08:14:09
2	Mn 257.610†	146079.7	148295.7	526.12 µg/L	526.12 ppb	08:14:04
2	Mo 202.031†	4318.0	4366.6	529.19 µg/L	529.19 ppb	08:14:30
2	Ni 231.604†	8930.8	8725.8	527.77 µg/L	527.77 ppb	08:14:09
2	P 214.914†	1367.3	1166.9	2637.9 µg/L	2637.9 ppb	08:14:30
2	Pb 220.353†	1942.3	1908.7	535.58 µg/L	535.58 ppb	08:14:30

2	S 181.975 Axial†	217.2	197.2	1096.2 µg/L	1096.2 ppb	08:14:30
2	Sb 206.836†	522.9	506.3	537.70 µg/L	537.70 ppb	08:14:30
2	Se 196.026†	346.2	343.1	535.26 µg/L	535.26 ppb	08:14:30
2	SiO2†	30353.0	28393.3	5797.2 µg/L	5797.2 ppb	08:14:09
2	Si 251.611†	33249.0	33437.3	2708.6 µg/L	2708.6 ppb	08:14:09
2	Sn 189.927†	978.6	969.0	548.77 µg/L	548.77 ppb	08:14:30
2	Ti 334.940†	217497.6	219873.0	531.17 µg/L	531.17 ppb	08:14:04
2	Tl 190.801†	287.1	315.6	530.31 µg/L	530.31 ppb	08:14:30
2	U 409.014†	5468.3	5731.9	531.75 µg/L	531.75 ppb	08:14:09
2	V 292.402†	43602.0	44334.6	539.59 µg/L	539.59 ppb	08:14:09
2	Zn 213.857†	19253.9	18894.2	527.39 µg/L	527.39 ppb	08:14:09
3	Sc RADIAL	77462.0	77462.0	98.7 %		08:12:58
3	Al 396.153Radial†	7785.1	7916.9	5118.4 µg/L	5118.4 ppb	08:12:58
3	Ca 317.933Radial†	6924.0	6767.8	4876.5 µg/L	4876.5 ppb	08:13:19
3	Fe 238.204 Radial†	400.1	389.0	5161.7 µg/L	5161.7 ppb	08:13:19
3	K 766.490 Radial†	8564.5	8278.4	5222.9 µg/L	5222.9 ppb	08:12:58
3	Mg 279.077 IEC†	506.5	505.0	5184.6 µg/L	5184.6 ppb	08:13:19
3	Na 589.592 Radial†	37907.2	37851.9	10077 µg/L	10077 ppb	08:12:58
3	Sr 421.552†	85674.5	86166.9	515.44 µg/L	515.44 ppb	08:12:58
3	Sc 361.383	1958617.8	1958617.8	99.098 %		08:14:37
3	Y 371.029	1234434.8	1234434.8	98.825 %		08:14:37
3	Ag 328.068†	55554.4	56152.9	510.36 µg/L	510.36 ppb	08:14:42
3	As 188.979†	202.9	207.5	451.44 µg/L	451.44 ppb	08:15:03
3	B 249.677†	10503.0	10228.7	482.57 µg/L	482.57 ppb	08:14:42
3	Ba 233.527†	17177.8	17358.2	485.73 µg/L	485.73 ppb	08:14:42
3	Be 313.107†	734382.9	737237.1	495.85 µg/L	495.85 ppb	08:14:37
3	Cd 226.502†	16703.5	16980.9	481.02 µg/L	481.02 ppb	08:14:42
3	Co 228.616†	8925.9	9056.5	481.13 µg/L	481.13 ppb	08:14:42
3	Cr 267.716†	20865.9	21158.1	474.39 µg/L	474.39 ppb	08:14:42
3	Cu 324.752†	70062.2	66800.2	490.52 µg/L	490.52 ppb	08:14:42
3	Mn 257.610†	139578.3	140997.2	500.25 µg/L	500.25 ppb	08:14:37
3	Mo 202.031†	3659.7	3680.5	446.07 µg/L	446.07 ppb	08:15:03
3	Ni 231.604†	8204.2	7947.5	480.70 µg/L	480.70 ppb	08:14:42
3	P 214.914†	1201.9	993.0	2240.6 µg/L	2240.6 ppb	08:15:03
3	Pb 220.353†	1708.0	1662.4	466.38 µg/L	466.38 ppb	08:15:03
3	S 181.975 Axial†	194.2	172.8	960.68 µg/L	960.68 ppb	08:15:03
3	Sb 206.836†	457.0	437.1	463.84 µg/L	463.84 ppb	08:15:03
3	Se 196.026†	316.3	311.2	487.29 µg/L	487.29 ppb	08:15:03
3	SiO2†	28545.7	26416.3	5393.6 µg/L	5393.6 ppb	08:14:42
3	Si 251.611†	31168.9	31170.4	2524.9 µg/L	2524.9 ppb	08:14:42
3	Sn 189.927†	817.3	801.3	454.22 µg/L	454.22 ppb	08:15:03
3	Ti 334.940†	206180.0	207353.8	500.91 µg/L	500.91 ppb	08:14:37
3	Tl 190.801†	263.5	290.5	488.10 µg/L	488.10 ppb	08:15:03
3	U 409.014†	4948.9	5180.2	480.46 µg/L	480.46 ppb	08:14:42
3	V 292.402†	39652.2	40128.6	488.15 µg/L	488.15 ppb	08:14:42
3	Zn 213.857†	17729.6	17258.8	481.69 µg/L	481.69 ppb	08:14:42

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1954506.9	98.890 %	0.2557			0.26%
Sc RADIAL	77375.1	98.6 %	0.29			0.30%
Y 371.029	1231787.9	98.613 %	0.2632			0.27%
Ag 328.068†	58107.8	528.23 µg/L	15.501	528.23 ppb	15.501	2.93%
QC value within limits for Ag 328.068 Recovery = 105.65%						
Al 396.153Radial†	7933.7	5128.1 µg/L	10.41	5128.1 ppb	10.41	0.20%
QC value within limits for Al 396.153Radial Recovery = 102.56%						
As 188.979†	235.5	512.38 µg/L	53.161	512.38 ppb	53.161	10.38%
QC value within limits for As 188.979 Recovery = 102.48%						
B 249.677†	10679.8	503.99 µg/L	18.673	503.99 ppb	18.673	3.71%
QC value within limits for B 249.677 Recovery = 100.80%						
Ba 233.527†	18378.7	514.30 µg/L	24.799	514.30 ppb	24.799	4.82%
QC value within limits for Ba 233.527 Recovery = 102.86%						
Be 313.107†	763419.6	513.46 µg/L	15.252	513.46 ppb	15.252	2.97%
QC value within limits for Be 313.107 Recovery = 102.69%						
Ca 317.933Radial†	6798.1	4898.4 µg/L	21.61	4898.4 ppb	21.61	0.44%
QC value within limits for Ca 317.933Radial Recovery = 97.97%						
Cd 226.502†	18019.7	510.49 µg/L	25.517	510.49 ppb	25.517	5.00%
QC value within limits for Cd 226.502 Recovery = 102.10%						
Co 228.616†	9654.5	512.96 µg/L	27.575	512.96 ppb	27.575	5.38%

QC value within limits for Co 228.616 Recovery = 102.59%					
Cr 267.716†	22948.7	514.53 µg/L	34.780	514.53 ppb	34.780 6.76%
QC value within limits for Cr 267.716 Recovery = 102.91%					
Cu 324.752†	71045.5	521.65 µg/L	26.982	521.65 ppb	26.982 5.17%
QC value within limits for Cu 324.752 Recovery = 104.33%					
Fe 238.204 Radial†	390.4	5180.3 µg/L	21.82	5180.3 ppb	21.82 0.42%
QC value within limits for Fe 238.204 Radial Recovery = 103.61%					
K 766.490 Radial†	8249.1	5204.4 µg/L	31.51	5204.4 ppb	31.51 0.61%
QC value within limits for K 766.490 Radial Recovery = 104.09%					
Mg 279.077 IEC†	506.1	5197.1 µg/L	29.93	5197.1 ppb	29.93 0.58%
QC value within limits for Mg 279.077 IEC Recovery = 103.94%					
Mn 257.610†	145819.1	517.34 µg/L	14.805	517.34 ppb	14.805 2.86%
QC value within limits for Mn 257.610 Recovery = 103.47%					
Mo 202.031†	4146.1	502.48 µg/L	48.870	502.48 ppb	48.870 9.73%
QC value within limits for Mo 202.031 Recovery = 100.50%					
Na 589.592 Radial†	37889.3	10087 µg/L	9.5	10087 ppb	9.5 0.09%
QC value within limits for Na 589.592 Radial Recovery = 100.87%					
Ni 231.604†	8480.6	512.94 µg/L	27.947	512.94 ppb	27.947 5.45%
QC value within limits for Ni 231.604 Recovery = 102.59%					
P 214.914†	1107.1	2501.1 µg/L	225.73	2501.1 ppb	225.73 9.02%
QC value within limits for P 214.914 Recovery = 100.05%					
Pb 220.353†	1824.6	511.95 µg/L	39.471	511.95 ppb	39.471 7.71%
QC value within limits for Pb 220.353 Recovery = 102.39%					
S 181.975 Axial†	188.1	1045.6 µg/L	74.01	1045.6 ppb	74.01 7.08%
QC value within limits for S 181.975 Axial Recovery = 104.56%					
Sb 206.836†	484.9	514.85 µg/L	44.249	514.85 ppb	44.249 8.59%
QC value within limits for Sb 206.836 Recovery = 102.97%					
Se 196.026†	334.3	521.96 µg/L	30.290	521.96 ppb	30.290 5.80%
QC value within limits for Se 196.026 Recovery = 104.39%					
SiO2†	27770.2	5670.0 µg/L	239.66	5670.0 ppb	239.66 4.23%
QC value within limits for SiO2 Recovery = 106.03%					
Si 251.611†	32744.3	2652.4 µg/L	110.68	2652.4 ppb	110.68 4.17%
QC value within limits for Si 251.611 Recovery = 106.10%					
Sn 189.927†	913.2	517.32 µg/L	54.648	517.32 ppb	54.648 10.56%
QC value within limits for Sn 189.927 Recovery = 103.46%					
Sr 421.552†	86074.8	514.89 µg/L	1.235	514.89 ppb	1.235 0.24%
QC value within limits for Sr 421.552 Recovery = 102.98%					
Ti 334.940†	215636.7	520.93 µg/L	17.341	520.93 ppb	17.341 3.33%
QC value within limits for Ti 334.940 Recovery = 104.19%					
Tl 190.801†	307.7	517.02 µg/L	25.072	517.02 ppb	25.072 4.85%
QC value within limits for Tl 190.801 Recovery = 103.40%					
U 409.014†	5593.3	518.86 µg/L	33.846	518.86 ppb	33.846 6.52%
QC value within limits for U 409.014 Recovery = 103.77%					
V 292.402†	42975.4	522.97 µg/L	30.168	522.97 ppb	30.168 5.77%
QC value within limits for V 292.402 Recovery = 104.59%					
Zn 213.857†	18379.3	513.00 µg/L	27.139	513.00 ppb	27.139 5.29%
QC value within limits for Zn 213.857 Recovery = 102.60%					
All analyte(s) passed QC.					

Sequence No.: 19

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 08:15:12

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	75911.1	75911.1	96.7 %		08:15:45
1	Al 396.153Radial†	-20.4	8.4	5.4243 µg/L	5.4243 ppb	08:15:45
1	Ca 317.933Radial†	288.7	51.3	36.952 µg/L	36.952 ppb	08:16:05
1	Fe 238.204 Radial†	18.0	2.3	30.179 µg/L	30.179 ppb	08:16:05
1	K 766.490 Radial†	405.1	20.1	12.689 µg/L	12.689 ppb	08:15:45
1	Mg 279.077 IEC†	8.7	0.9	8.7823 µg/L	8.7823 ppb	08:16:05
1	Na 589.592 Radial†	419.3	-120.1	-31.985 µg/L	-31.985 ppb	08:15:45
1	Sr 421.552†	627.5	14.7	0.0879 µg/L	0.0879 ppb	08:15:45
1	Sc 361.383	1956273.2	1956273.2	98.979 %		08:17:07
1	Y 371.029	1237425.9	1237425.9	99.065 %		08:17:07
1	Ag 328.068†	-102.0	-10.5	-0.0913 µg/L	-0.0913 ppb	08:17:13
1	As 188.979†	1.2	3.9	8.6083 µg/L	8.6083 ppb	08:17:33
1	B 249.677†	223.1	-144.5	-6.8606 µg/L	-6.8606 ppb	08:17:33
1	Ba 233.527†	-20.8	2.9	0.0827 µg/L	0.0827 ppb	08:17:33
1	Be 313.107†	3789.9	-4.8	-0.0033 µg/L	-0.0033 ppb	08:17:13
1	Cd 226.502†	-118.5	5.6	0.1553 µg/L	0.1553 ppb	08:17:33
1	Co 228.616†	-34.9	14.1	0.7483 µg/L	0.7483 ppb	08:17:33
1	Cr 267.716†	-74.9	26.5	0.5939 µg/L	0.5939 ppb	08:17:33
1	Cu 324.752†	3920.9	61.4	0.4547 µg/L	0.4547 ppb	08:17:13
1	Mn 257.610†	-100.3	46.5	0.1685 µg/L	0.1685 ppb	08:17:33
1	Mo 202.031†	15.0	2.6	0.3186 µg/L	0.3186 ppb	08:17:33
1	Ni 231.604†	330.0	2.0	0.1205 µg/L	0.1205 ppb	08:17:33
1	P 214.914†	217.2	-0.4	-0.9740 µg/L	-0.9740 ppb	08:17:33
1	Pb 220.353†	66.6	6.2	1.7338 µg/L	1.7338 ppb	08:17:33
1	S 181.975 Axial†	25.2	2.3	13.013 µg/L	13.013 ppb	08:17:33
1	Sb 206.836†	28.5	4.8	5.1060 µg/L	5.1060 ppb	08:17:33
1	Se 196.026†	12.5	4.7	7.1355 µg/L	7.1355 ppb	08:17:33
1	SiO2†	2340.3	-25.0	-5.0943 µg/L	-5.0943 ppb	08:17:13
1	Si 251.611†	335.2	56.2	4.5522 µg/L	4.5522 ppb	08:17:33
1	Sn 189.927†	27.4	4.2	2.4004 µg/L	2.4004 ppb	08:17:33
1	Ti 334.940†	772.2	76.3	0.1844 µg/L	0.1844 ppb	08:17:13
1	Tl 190.801†	-27.8	-3.5	-5.8852 µg/L	-5.8852 ppb	08:17:33
1	U 409.014†	-222.1	-38.2	-3.5541 µg/L	-3.5541 ppb	08:17:13
1	V 292.402†	-98.8	15.5	0.1886 µg/L	0.1886 ppb	08:17:13
1	Zn 213.857†	671.9	46.6	1.3058 µg/L	1.3058 ppb	08:17:33
2	Sc RADIAL	76310.4	76310.4	97.2 %		08:16:11
2	Al 396.153Radial†	-30.9	-2.3	-1.4927 µg/L	-1.4927 ppb	08:16:11
2	Ca 317.933Radial†	289.5	50.6	36.455 µg/L	36.455 ppb	08:16:31
2	Fe 238.204 Radial†	17.7	1.9	24.616 µg/L	24.616 ppb	08:16:31
2	K 766.490 Radial†	414.3	27.4	17.264 µg/L	17.264 ppb	08:16:11
2	Mg 279.077 IEC†	7.7	-0.2	-2.4036 µg/L	-2.4036 ppb	08:16:31
2	Na 589.592 Radial†	404.0	-138.2	-36.781 µg/L	-36.781 ppb	08:16:11
2	Sr 421.552†	664.7	49.6	0.2967 µg/L	0.2967 ppb	08:16:11
2	Sc 361.383	1957168.5	1957168.5	99.024 %		08:17:39
2	Y 371.029	1237997.5	1237997.5	99.110 %		08:17:39
2	Ag 328.068†	-58.2	33.8	0.3051 µg/L	0.3051 ppb	08:17:45
2	As 188.979†	-2.8	-0.1	-0.2312 µg/L	-0.2312 ppb	08:18:05
2	B 249.677†	221.9	-145.9	-6.9216 µg/L	-6.9216 ppb	08:18:05
2	Ba 233.527†	-17.0	6.8	0.1905 µg/L	0.1905 ppb	08:18:05
2	Be 313.107†	3908.4	113.1	0.0761 µg/L	0.0761 ppb	08:17:45
2	Cd 226.502†	-108.9	15.3	0.4313 µg/L	0.4313 ppb	08:18:05
2	Co 228.616†	-43.5	5.4	0.2859 µg/L	0.2859 ppb	08:18:05
2	Cr 267.716†	-70.9	30.5	0.6838 µg/L	0.6838 ppb	08:18:05
2	Cu 324.752†	3897.0	35.4	0.2632 µg/L	0.2632 ppb	08:17:45
2	Mn 257.610†	-85.7	61.3	0.2206 µg/L	0.2206 ppb	08:18:05
2	Mo 202.031†	12.7	0.2	0.0255 µg/L	0.0255 ppb	08:18:05
2	Ni 231.604†	335.7	7.6	0.4616 µg/L	0.4616 ppb	08:18:05
2	P 214.914†	207.6	-10.2	-23.426 µg/L	-23.426 ppb	08:18:05
2	Pb 220.353†	59.4	-1.2	-0.3216 µg/L	-0.3216 ppb	08:18:05

2	S 181.975 Axial†	25.5	2.6	14.395 µg/L	14.395 ppb	08:18:05
2	Sb 206.836†	23.8	0.1	0.0564 µg/L	0.0564 ppb	08:18:05
2	Se 196.026†	3.2	-4.7	-6.9075 µg/L	-6.9075 ppb	08:18:05
2	SiO2†	2371.6	5.5	1.1314 µg/L	1.1314 ppb	08:17:45
2	Si 251.611†	329.5	50.4	4.0794 µg/L	4.0794 ppb	08:18:05
2	Sn 189.927†	27.2	4.0	2.2482 µg/L	2.2482 ppb	08:18:05
2	Ti 334.940†	723.2	26.4	0.0646 µg/L	0.0646 ppb	08:17:45
2	Tl 190.801†	-22.9	1.4	2.3756 µg/L	2.3756 ppb	08:18:05
2	U 409.014†	-236.7	-52.8	-4.9172 µg/L	-4.9172 ppb	08:17:45
2	V 292.402†	-139.5	-25.5	-0.3091 µg/L	-0.3091 ppb	08:17:45
2	Zn 213.857†	673.1	47.5	1.3318 µg/L	1.3318 ppb	08:18:05
3	Sc RADIAL	76332.1	76332.1	97.3 %		08:16:37
3	Al 396.153Radial†	-44.6	-16.3	-10.573 µg/L	-10.573 ppb	08:16:37
3	Ca 317.933Radial†	287.6	48.6	34.990 µg/L	34.990 ppb	08:16:57
3	Fe 238.204 Radial†	17.7	1.9	25.283 µg/L	25.283 ppb	08:16:57
3	K 766.490 Radial†	368.1	-20.2	-12.771 µg/L	-12.771 ppb	08:16:37
3	Mg 279.077 IEC†	7.3	-0.7	-6.9373 µg/L	-6.9373 ppb	08:16:57
3	Na 589.592 Radial†	413.9	-128.1	-34.098 µg/L	-34.098 ppb	08:16:37
3	Sr 421.552†	626.6	10.2	0.0613 µg/L	0.0613 ppb	08:16:37
3	Sc 361.383	1959202.8	1959202.8	99.127 %		08:18:11
3	Y 371.029	1239004.7	1239004.7	99.191 %		08:18:11
3	Ag 328.068†	-80.0	11.9	0.1077 µg/L	0.1077 ppb	08:18:17
3	As 188.979†	-0.4	2.3	5.0437 µg/L	5.0437 ppb	08:18:38
3	B 249.677†	226.9	-141.1	-6.6935 µg/L	-6.6935 ppb	08:18:38
3	Ba 233.527†	-11.9	12.0	0.3336 µg/L	0.3336 ppb	08:18:38
3	Be 313.107†	3878.8	79.2	0.0532 µg/L	0.0532 ppb	08:18:17
3	Cd 226.502†	-116.5	7.7	0.2160 µg/L	0.2160 ppb	08:18:38
3	Co 228.616†	-54.9	-6.1	-0.3231 µg/L	-0.3231 ppb	08:18:38
3	Cr 267.716†	-60.8	40.8	0.9143 µg/L	0.9143 ppb	08:18:38
3	Cu 324.752†	3910.3	44.7	0.3316 µg/L	0.3316 ppb	08:18:17
3	Mn 257.610†	-92.5	54.5	0.1969 µg/L	0.1969 ppb	08:18:38
3	Mo 202.031†	14.9	2.4	0.2964 µg/L	0.2964 ppb	08:18:38
3	Ni 231.604†	330.0	1.5	0.0935 µg/L	0.0935 ppb	08:18:38
3	P 214.914†	214.8	-3.2	-7.3525 µg/L	-7.3525 ppb	08:18:38
3	Pb 220.353†	59.9	-0.7	-0.1920 µg/L	-0.1920 ppb	08:18:38
3	S 181.975 Axial†	22.2	-0.7	-3.8887 µg/L	-3.8887 ppb	08:18:38
3	Sb 206.836†	30.2	6.5	6.8653 µg/L	6.8653 ppb	08:18:38
3	Se 196.026†	10.4	2.6	4.0075 µg/L	4.0075 ppb	08:18:38
3	SiO2†	2363.4	-5.2	-1.0640 µg/L	-1.0640 ppb	08:18:17
3	Si 251.611†	335.5	56.0	4.5358 µg/L	4.5358 ppb	08:18:38
3	Sn 189.927†	21.4	-1.8	-1.0264 µg/L	-1.0264 ppb	08:18:38
3	Ti 334.940†	794.2	97.4	0.2365 µg/L	0.2365 ppb	08:18:17
3	Tl 190.801†	-20.0	4.4	7.2475 µg/L	7.2475 ppb	08:18:38
3	U 409.014†	-194.4	-9.9	-0.9215 µg/L	-0.9215 ppb	08:18:17
3	V 292.402†	-132.6	-18.5	-0.2175 µg/L	-0.2175 ppb	08:18:17
3	Zn 213.857†	669.4	43.0	1.2076 µg/L	1.2076 ppb	08:18:38

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1957548.2	99.043 %	0.0760			0.08%
Sc RADIAL	76184.5	97.1 %	0.30			0.31%
Y 371.029	1238142.7	99.122 %	0.0640			0.06%
Ag 328.068†	11.8	0.1071 µg/L	0.19818	0.1071 ppb	0.19818	184.98%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-3.4	-2.2138 µg/L	8.02303	-2.2138 ppb	8.02303	362.40%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.1	4.4736 µg/L	4.44724	4.4736 ppb	4.44724	99.41%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-143.8	-6.8252 µg/L	0.11811	-6.8252 ppb	0.11811	1.73%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.2	0.2023 µg/L	0.12588	0.2023 ppb	0.12588	62.24%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	62.5	0.0420 µg/L	0.04085	0.0420 ppb	0.04085	97.29%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	50.1	36.133 µg/L	1.0199	36.133 ppb	1.0199	2.82%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	9.5	0.2675 µg/L	0.14502	0.2675 ppb	0.14502	54.21%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	4.5	0.2370 µg/L	0.53736	0.2370 ppb	0.53736	226.73%

Cr	267.716†	32.6	0.7307 µg/L	0.16525	0.7307 ppb	0.16525	22.62%
	QC value within limits	for Cr 267.716	Recovery = Not calculated				
Cu	324.752†	47.2	0.3498 µg/L	0.09701	0.3498 ppb	0.09701	27.73%
	QC value within limits	for Cu 324.752	Recovery = Not calculated				
Fe	238.204 Radial†	2.0	26.693 µg/L	3.0374	26.693 ppb	3.0374	11.38%
	QC value within limits	for Fe 238.204 Radial	Recovery = Not calculated				
K	766.490 Radial†	9.1	5.7274 µg/L	16.18258	5.7274 ppb	16.18258	282.54%
	QC value within limits	for K 766.490 Radial	Recovery = Not calculated				
Mg	279.077 IEC†	-0.0	-0.1862 µg/L	8.09097	-0.1862 ppb	8.09097	>999.9%
	QC value within limits	for Mg 279.077 IEC	Recovery = Not calculated				
Mn	257.610†	54.1	0.1953 µg/L	0.02606	0.1953 ppb	0.02606	13.34%
	QC value within limits	for Mn 257.610	Recovery = Not calculated				
Mo	202.031†	1.8	0.2135 µg/L	0.16316	0.2135 ppb	0.16316	76.43%
	QC value within limits	for Mo 202.031	Recovery = Not calculated				
Na	589.592 Radial†	-128.8	-34.288 µg/L	2.4040	-34.288 ppb	2.4040	7.01%
	QC value within limits	for Na 589.592 Radial	Recovery = Not calculated				
Ni	231.604†	3.7	0.2252 µg/L	0.20518	0.2252 ppb	0.20518	91.11%
	QC value within limits	for Ni 231.604	Recovery = Not calculated				
P	214.914†	-4.6	-10.584 µg/L	11.5698	-10.584 ppb	11.5698	109.31%
	QC value within limits	for P 214.914	Recovery = Not calculated				
Pb	220.353†	1.4	0.4067 µg/L	1.15109	0.4067 ppb	1.15109	283.01%
	QC value within limits	for Pb 220.353	Recovery = Not calculated				
S	181.975 Axial†	1.4	7.8399 µg/L	10.18073	7.8399 ppb	10.18073	129.86%
	QC value within limits	for S 181.975 Axial	Recovery = Not calculated				
Sb	206.836†	3.8	4.0092 µg/L	3.53446	4.0092 ppb	3.53446	88.16%
	QC value within limits	for Sb 206.836	Recovery = Not calculated				
Se	196.026†	0.9	1.4119 µg/L	7.37255	1.4119 ppb	7.37255	522.19%
	QC value within limits	for Se 196.026	Recovery = Not calculated				
SiO2†		-8.2	-1.6756 µg/L	3.15755	-1.6756 ppb	3.15755	188.44%
	QC value within limits	for SiO2	Recovery = Not calculated				
Si	251.611†	54.2	4.3891 µg/L	0.26833	4.3891 ppb	0.26833	6.11%
	QC value within limits	for Si 251.611	Recovery = Not calculated				
Sn	189.927†	2.1	1.2074 µg/L	1.93605	1.2074 ppb	1.93605	160.35%
	QC value within limits	for Sn 189.927	Recovery = Not calculated				
Sr	421.552†	24.8	0.1486 µg/L	0.12891	0.1486 ppb	0.12891	86.74%
	QC value within limits	for Sr 421.552	Recovery = Not calculated				
Ti	334.940†	66.7	0.1618 µg/L	0.08812	0.1618 ppb	0.08812	54.45%
	QC value within limits	for Ti 334.940	Recovery = Not calculated				
Tl	190.801†	0.8	1.2460 µg/L	6.63882	1.2460 ppb	6.63882	532.83%
	QC value within limits	for Tl 190.801	Recovery = Not calculated				
U	409.014†	-33.6	-3.1309 µg/L	2.03117	-3.1309 ppb	2.03117	64.87%
	QC value within limits	for U 409.014	Recovery = Not calculated				
V	292.402†	-9.5	-0.1127 µg/L	0.26489	-0.1127 ppb	0.26489	235.11%
	QC value within limits	for V 292.402	Recovery = Not calculated				
Zn	213.857†	45.7	1.2817 µg/L	0.06548	1.2817 ppb	0.06548	5.11%
	QC value within limits	for Zn 213.857	Recovery = Not calculated				

All analyte(s) passed QC.

Sequence No.: 30

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 08:55:43

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	76506.0	76506.0	97.5 %		08:56:22
1	Al 396.153Radial†	7768.7	7998.7	5169.4 µg/L	5169.4 ppb	08:56:22
1	Ca 317.933Radial†	7066.6	7001.8	5045.1 µg/L	5045.1 ppb	08:56:22
1	Fe 238.204 Radial†	401.4	395.4	5247.0 µg/L	5247.0 ppb	08:56:42
1	K 766.490 Radial†	8581.0	8403.7	5301.9 µg/L	5301.9 ppb	08:56:22
1	Mg 279.077 IEC†	511.3	516.4	5302.7 µg/L	5302.7 ppb	08:56:42
1	Na 589.592 Radial†	38079.2	38508.3	10252 µg/L	10252 ppb	08:56:22
1	Sr 421.552†	85893.0	87475.6	523.27 µg/L	523.27 ppb	08:56:22
1	Sc 361.383	1945023.1	1945023.1	98.410 %		08:57:45
1	Y 371.029	1225010.3	1225010.3	98.071 %		08:57:45
1	Ag 328.068†	58796.2	59839.0	544.03 µg/L	544.03 ppb	08:57:51
1	As 188.979†	243.7	250.3	544.59 µg/L	544.59 ppb	08:58:12
1	B 249.677†	11215.7	11027.0	520.45 µg/L	520.45 ppb	08:57:51
1	Ba 233.527†	18908.9	19238.4	538.36 µg/L	538.36 ppb	08:57:51
1	Be 313.107†	782566.2	791378.7	532.26 µg/L	532.26 ppb	08:57:45
1	Cd 226.502†	18416.6	18839.5	533.73 µg/L	533.73 ppb	08:57:51
1	Co 228.616†	9925.9	10135.6	538.55 µg/L	538.55 ppb	08:57:51
1	Cr 267.716†	23714.4	24199.7	542.58 µg/L	542.58 ppb	08:57:51
1	Cu 324.752†	76742.2	74082.4	543.93 µg/L	543.93 ppb	08:57:51
1	Mn 257.610†	148334.2	150879.2	535.28 µg/L	535.28 ppb	08:57:45
1	Mo 202.031†	4412.2	4470.9	541.83 µg/L	541.83 ppb	08:58:12
1	Ni 231.604†	9085.2	8900.6	538.34 µg/L	538.34 ppb	08:57:51
1	P 214.914†	1377.1	1179.5	2666.3 µg/L	2666.3 ppb	08:58:12
1	Pb 220.353†	1970.1	1940.8	544.61 µg/L	544.61 ppb	08:58:12
1	S 181.975 Axial†	215.7	196.1	1090.3 µg/L	1090.3 ppb	08:58:12
1	Sb 206.836†	542.1	526.8	559.51 µg/L	559.51 ppb	08:58:12
1	Se 196.026†	363.5	361.5	563.08 µg/L	563.08 ppb	08:58:12
1	SiO2†	30664.7	28770.8	5874.3 µg/L	5874.3 ppb	08:57:51
1	Si 251.611†	33626.4	33887.4	2745.0 µg/L	2745.0 ppb	08:57:51
1	Sn 189.927†	992.2	984.8	557.72 µg/L	557.72 ppb	08:58:12
1	Ti 334.940†	220872.3	223737.7	540.51 µg/L	540.51 ppb	08:57:45
1	Tl 190.801†	286.7	315.9	530.76 µg/L	530.76 ppb	08:58:12
1	U 409.014†	5472.0	5746.7	533.10 µg/L	533.10 ppb	08:57:51
1	V 292.402†	44196.8	45026.3	548.04 µg/L	548.04 ppb	08:57:51
1	Zn 213.857†	19548.6	19232.3	536.82 µg/L	536.82 ppb	08:57:51
2	Sc RADIAL	76962.6	76962.6	98.1 %		08:56:47
2	Al 396.153Radial†	7820.8	8004.6	5173.3 µg/L	5173.3 ppb	08:56:47
2	Ca 317.933Radial†	7127.1	7020.5	5058.6 µg/L	5058.6 ppb	08:56:47
2	Fe 238.204 Radial†	399.3	390.9	5187.3 µg/L	5187.3 ppb	08:57:08
2	K 766.490 Radial†	8661.9	8434.0	5321.1 µg/L	5321.1 ppb	08:56:47
2	Mg 279.077 IEC†	513.9	515.9	5298.0 µg/L	5298.0 ppb	08:57:08
2	Na 589.592 Radial†	38265.3	38466.3	10241 µg/L	10241 ppb	08:56:47
2	Sr 421.552†	86616.9	87691.2	524.56 µg/L	524.56 ppb	08:56:47
2	Sc 361.383	1951518.3	1951518.3	98.738 %		08:58:19
2	Y 371.029	1229223.6	1229223.6	98.408 %		08:58:19
2	Ag 328.068†	58813.3	59657.4	542.38 µg/L	542.38 ppb	08:58:24
2	As 188.979†	243.0	248.8	541.31 µg/L	541.31 ppb	08:58:45
2	B 249.677†	11270.2	11044.2	521.29 µg/L	521.29 ppb	08:58:24
2	Ba 233.527†	18908.5	19174.1	536.56 µg/L	536.56 ppb	08:58:24
2	Be 313.107†	788048.1	794284.0	534.21 µg/L	534.21 ppb	08:58:19
2	Cd 226.502†	18460.5	18821.7	533.23 µg/L	533.23 ppb	08:58:24
2	Co 228.616†	9902.5	10078.3	535.49 µg/L	535.49 ppb	08:58:24
2	Cr 267.716†	23755.4	24161.1	541.71 µg/L	541.71 ppb	08:58:24
2	Cu 324.752†	76858.6	73940.7	542.88 µg/L	542.88 ppb	08:58:24
2	Mn 257.610†	149358.7	151415.1	537.17 µg/L	537.17 ppb	08:58:19
2	Mo 202.031†	4383.5	4426.9	536.50 µg/L	536.50 ppb	08:58:45
2	Ni 231.604†	9112.6	8897.7	538.17 µg/L	538.17 ppb	08:58:24
2	P 214.914†	1373.8	1171.5	2647.9 µg/L	2647.9 ppb	08:58:45
2	Pb 220.353†	1972.5	1936.5	543.39 µg/L	543.39 ppb	08:58:45

2	S 181.975 Axial†	217.1	196.7	1093.6 µg/L	1093.6 ppb	08:58:45
2	Sb 206.836†	526.1	508.8	540.35 µg/L	540.35 ppb	08:58:45
2	Se 196.026†	359.0	355.7	554.18 µg/L	554.18 ppb	08:58:45
2	SiO2†	30732.4	28735.7	5867.1 µg/L	5867.1 ppb	08:58:24
2	Si 251.611†	33713.8	33862.2	2743.0 µg/L	2743.0 ppb	08:58:24
2	Sn 189.927†	984.5	973.7	551.43 µg/L	551.43 ppb	08:58:45
2	Ti 334.940†	222228.4	224364.2	542.02 µg/L	542.02 ppb	08:58:19
2	Tl 190.801†	292.6	320.9	539.19 µg/L	539.19 ppb	08:58:45
2	U 409.014†	5640.6	5898.9	547.25 µg/L	547.25 ppb	08:58:24
2	V 292.402†	44268.1	44949.1	547.08 µg/L	547.08 ppb	08:58:24
2	Zn 213.857†	19560.1	19177.8	535.29 µg/L	535.29 ppb	08:58:24
3	Sc RADIAL	76396.7	76396.7	97.3 %		08:57:13
3	Al 396.153Radial†	7832.6	8075.7	5221.1 µg/L	5221.1 ppb	08:57:13
3	Ca 317.933Radial†	7085.9	7032.0	5066.9 µg/L	5066.9 ppb	08:57:13
3	Fe 238.204 Radial†	400.7	395.3	5244.5 µg/L	5244.5 ppb	08:57:34
3	K 766.490 Radial†	8558.3	8393.0	5295.2 µg/L	5295.2 ppb	08:57:13
3	Mg 279.077 IEC†	511.2	516.9	5307.2 µg/L	5307.2 ppb	08:57:34
3	Na 589.592 Radial†	38078.1	38563.1	10267 µg/L	10267 ppb	08:57:13
3	Sr 421.552†	85973.7	87684.7	524.52 µg/L	524.52 ppb	08:57:13
3	Sc 361.383	1947793.1	1947793.1	98.550 %		08:58:52
3	Y 371.029	1227119.7	1227119.7	98.240 %		08:58:52
3	Ag 328.068†	55817.9	56731.9	515.63 µg/L	515.63 ppb	08:58:58
3	As 188.979†	208.5	214.3	466.30 µg/L	466.30 ppb	08:59:18
3	B 249.677†	10597.4	10383.4	489.87 µg/L	489.87 ppb	08:58:58
3	Ba 233.527†	17377.2	17656.8	494.09 µg/L	494.09 ppb	08:58:58
3	Be 313.107†	744793.0	751918.8	505.72 µg/L	505.72 ppb	08:58:52
3	Cd 226.502†	16843.3	17216.5	487.70 µg/L	487.70 ppb	08:58:58
3	Co 228.616†	9017.5	9199.6	488.73 µg/L	488.73 ppb	08:58:58
3	Cr 267.716†	21067.9	21480.1	481.60 µg/L	481.60 ppb	08:58:58
3	Cu 324.752†	70336.4	67471.5	495.45 µg/L	495.45 ppb	08:58:58
3	Mn 257.610†	141473.6	143703.3	509.85 µg/L	509.85 ppb	08:58:52
3	Mo 202.031†	3705.8	3747.7	454.22 µg/L	454.22 ppb	08:59:18
3	Ni 231.604†	8275.7	8066.1	487.87 µg/L	487.87 ppb	08:58:58
3	P 214.914†	1215.4	1013.5	2287.3 µg/L	2287.3 ppb	08:59:18
3	Pb 220.353†	1729.7	1694.0	475.28 µg/L	475.28 ppb	08:59:18
3	S 181.975 Axial†	197.5	177.3	985.45 µg/L	985.45 ppb	08:59:18
3	Sb 206.836†	462.6	445.4	472.62 µg/L	472.62 ppb	08:59:18
3	Se 196.026†	326.6	323.4	505.91 µg/L	505.91 ppb	08:59:18
3	SiO2†	28726.2	26759.5	5463.7 µg/L	5463.7 ppb	08:58:58
3	Si 251.611†	31274.3	31452.1	2547.8 µg/L	2547.8 ppb	08:58:58
3	Sn 189.927†	815.4	803.9	455.77 µg/L	455.77 ppb	08:59:18
3	Ti 334.940†	208831.6	211200.7	510.20 µg/L	510.20 ppb	08:58:52
3	Tl 190.801†	267.1	295.6	496.67 µg/L	496.67 ppb	08:59:18
3	U 409.014†	4964.0	5223.3	484.45 µg/L	484.45 ppb	08:58:58
3	V 292.402†	39901.5	40604.0	493.96 µg/L	493.96 ppb	08:58:58
3	Zn 213.857†	17847.8	17478.1	487.81 µg/L	487.81 ppb	08:58:58

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1948111.5	98.566 %	0.1649			0.17%
Sc RADIAL	76621.8	97.6 %	0.38			0.39%
Y 371.029	1227117.9	98.239 %	0.1687			0.17%
Ag 328.068†	58742.8	534.01 µg/L	15.940	534.01 ppb	15.940	2.98%
QC value within limits for Ag 328.068 Recovery = 106.80%						
Al 396.153Radial†	8026.3	5187.9 µg/L	28.77	5187.9 ppb	28.77	0.55%
QC value within limits for Al 396.153Radial Recovery = 103.76%						
As 188.979†	237.8	517.40 µg/L	44.287	517.40 ppb	44.287	8.56%
QC value within limits for As 188.979 Recovery = 103.48%						
B 249.677†	10818.2	510.54 µg/L	17.906	510.54 ppb	17.906	3.51%
QC value within limits for B 249.677 Recovery = 102.11%						
Ba 233.527†	18689.8	523.00 µg/L	25.058	523.00 ppb	25.058	4.79%
QC value within limits for Ba 233.527 Recovery = 104.60%						
Be 313.107†	779193.9	524.06 µg/L	15.916	524.06 ppb	15.916	3.04%
QC value within limits for Be 313.107 Recovery = 104.81%						
Ca 317.933Radial†	7018.1	5056.9 µg/L	10.95	5056.9 ppb	10.95	0.22%
QC value within limits for Ca 317.933Radial Recovery = 101.14%						
Cd 226.502†	18292.5	518.22 µg/L	26.436	518.22 ppb	26.436	5.10%
QC value within limits for Cd 226.502 Recovery = 103.64%						
Co 228.616†	9804.5	520.92 µg/L	27.919	520.92 ppb	27.919	5.36%

Cr	267.716†	23280.3	521.96 µg/L	34.955	521.96 ppb	34.955	6.70%
Cu	324.752†	71831.5	527.42 µg/L	27.689	527.42 ppb	27.689	5.25%
Fe	238.204 Radial†	393.8	5226.3 µg/L	33.75	5226.3 ppb	33.75	0.65%
K	766.490 Radial†	8410.2	5306.1 µg/L	13.42	5306.1 ppb	13.42	0.25%
Mg	279.077 IEC†	516.4	5302.6 µg/L	4.60	5302.6 ppb	4.60	0.09%
Mn	257.610†	148665.8	527.43 µg/L	15.261	527.43 ppb	15.261	2.89%
Mo	202.031†	4215.2	510.85 µg/L	49.115	510.85 ppb	49.115	9.61%
Na	589.592 Radial†	38512.5	10253 µg/L	12.9	10253 ppb	12.9	0.13%
Ni	231.604†	8621.4	521.46 µg/L	29.089	521.46 ppb	29.089	5.58%
P	214.914†	1121.5	2533.9 µg/L	213.72	2533.9 ppb	213.72	8.43%
Pb	220.353†	1857.1	521.09 µg/L	39.681	521.09 ppb	39.681	7.62%
S	181.975 Axial†	190.0	1056.4 µg/L	61.50	1056.4 ppb	61.50	5.82%
Sb	206.836†	493.7	524.16 µg/L	45.648	524.16 ppb	45.648	8.71%
Se	196.026†	346.9	541.06 µg/L	30.761	541.06 ppb	30.761	5.69%
SiO2†		28088.7	5735.0 µg/L	235.05	5735.0 ppb	235.05	4.10%
Si	251.611†	33067.2	2678.6 µg/L	113.31	2678.6 ppb	113.31	4.23%
Sn	189.927†	920.8	521.64 µg/L	57.132	521.64 ppb	57.132	10.95%
Sr	421.552†	87617.2	524.12 µg/L	0.734	524.12 ppb	0.734	0.14%
Ti	334.940†	219767.5	530.91 µg/L	17.951	530.91 ppb	17.951	3.38%
Tl	190.801†	310.8	522.20 µg/L	22.514	522.20 ppb	22.514	4.31%
U	409.014†	5622.9	521.60 µg/L	32.941	521.60 ppb	32.941	6.32%
V	292.402†	43526.5	529.69 µg/L	30.948	529.69 ppb	30.948	5.84%
Zn	213.857†	18629.4	519.97 µg/L	27.865	519.97 ppb	27.865	5.36%

QC value within limits for Co 228.616 Recovery = 104.18%
 QC value within limits for Cr 267.716 Recovery = 104.39%
 QC value within limits for Cu 324.752 Recovery = 105.48%
 QC value within limits for Fe 238.204 Radial Recovery = 104.53%
 QC value within limits for K 766.490 Radial Recovery = 106.12%
 QC value within limits for Mg 279.077 IEC Recovery = 106.05%
 QC value within limits for Mn 257.610 Recovery = 105.49%
 QC value within limits for Mo 202.031 Recovery = 102.17%
 QC value within limits for Na 589.592 Radial Recovery = 102.53%
 QC value within limits for Ni 231.604 Recovery = 104.29%
 QC value within limits for P 214.914 Recovery = 101.35%
 QC value within limits for Pb 220.353 Recovery = 104.22%
 QC value within limits for S 181.975 Axial Recovery = 105.64%
 QC value within limits for Sb 206.836 Recovery = 104.83%
 QC value within limits for Se 196.026 Recovery = 108.21%
 QC value within limits for SiO2 Recovery = 107.25%
 QC value within limits for Si 251.611 Recovery = 107.14%
 QC value within limits for Sn 189.927 Recovery = 104.33%
 QC value within limits for Sr 421.552 Recovery = 104.82%
 QC value within limits for Ti 334.940 Recovery = 106.18%
 QC value within limits for Tl 190.801 Recovery = 104.44%
 QC value within limits for U 409.014 Recovery = 104.32%
 QC value within limits for V 292.402 Recovery = 105.94%
 QC value within limits for Zn 213.857 Recovery = 103.99%

All analyte(s) passed QC.

Sequence No.: 31

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 08:59:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74525.6	74525.6	95.0 %		09:00:00
1	Al 396.153Radial†	-8.0	21.1	13.675 µg/L	13.675 ppb	09:00:00
1	Ca 317.933Radial†	256.3	22.7	16.338 µg/L	16.338 ppb	09:00:20
1	Fe 238.204 Radial†	17.7	2.3	30.394 µg/L	30.394 ppb	09:00:20
1	K 766.490 Radial†	393.1	15.2	9.6105 µg/L	9.6105 ppb	09:00:00
1	Mg 279.077 IEC†	8.9	1.3	12.804 µg/L	12.804 ppb	09:00:20
1	Na 589.592 Radial†	338.1	-197.7	-52.626 µg/L	-52.626 ppb	09:00:00
1	Sr 421.552†	634.3	33.9	0.2031 µg/L	0.2031 ppb	09:00:00
1	Sc 361.383	1930152.3	1930152.3	97.657 %		09:01:22
1	Y 371.029	1221367.3	1221367.3	97.779 %		09:01:22
1	Ag 328.068†	-97.9	-7.6	-0.0657 µg/L	-0.0657 ppb	09:01:28
1	As 188.979†	-3.8	-1.2	-2.6515 µg/L	-2.6515 ppb	09:01:49
1	B 249.677†	197.8	-167.4	-7.9458 µg/L	-7.9458 ppb	09:01:49
1	Ba 233.527†	-12.5	11.2	0.3133 µg/L	0.3133 ppb	09:01:49
1	Be 313.107†	3906.3	166.2	0.1117 µg/L	0.1117 ppb	09:01:28
1	Cd 226.502†	-120.4	2.0	0.0546 µg/L	0.0546 ppb	09:01:49
1	Co 228.616†	-45.8	2.4	0.1281 µg/L	0.1281 ppb	09:01:49
1	Cr 267.716†	-71.0	29.5	0.6608 µg/L	0.6608 ppb	09:01:28
1	Cu 324.752†	3869.7	62.5	0.4627 µg/L	0.4627 ppb	09:01:28
1	Mn 257.610†	-82.1	63.7	0.2295 µg/L	0.2295 ppb	09:01:49
1	Mo 202.031†	12.6	0.3	0.0376 µg/L	0.0376 ppb	09:01:49
1	Ni 231.604†	333.6	10.2	0.6200 µg/L	0.6200 ppb	09:01:49
1	P 214.914†	213.5	-1.2	-2.7762 µg/L	-2.7762 ppb	09:01:49
1	Pb 220.353†	60.7	1.0	0.2895 µg/L	0.2895 ppb	09:01:49
1	S 181.975 Axial†	19.8	-2.8	-15.752 µg/L	-15.752 ppb	09:01:49
1	Sb 206.836†	26.8	3.5	3.6534 µg/L	3.6534 ppb	09:01:49
1	Se 196.026†	7.8	0.0	0.1301 µg/L	0.1301 ppb	09:01:49
1	SiO2†	2377.5	45.1	9.2043 µg/L	9.2043 ppb	09:01:28
1	Si 251.611†	309.4	34.4	2.7867 µg/L	2.7867 ppb	09:01:49
1	Sn 189.927†	23.8	0.9	0.5310 µg/L	0.5310 ppb	09:01:49
1	Ti 334.940†	824.1	140.0	0.3376 µg/L	0.3376 ppb	09:01:28
1	Tl 190.801†	-27.0	-3.1	-5.1380 µg/L	-5.1380 ppb	09:01:49
1	U 409.014†	-223.8	-43.0	-3.9986 µg/L	-3.9986 ppb	09:01:28
1	V 292.402†	-95.6	17.4	0.2084 µg/L	0.2084 ppb	09:01:28
1	Zn 213.857†	657.1	40.6	1.1366 µg/L	1.1366 ppb	09:01:49
2	Sc RADIAL	75147.2	75147.2	95.8 %		09:00:26
2	Al 396.153Radial†	17.0	47.3	30.596 µg/L	30.596 ppb	09:00:26
2	Ca 317.933Radial†	268.2	32.9	23.729 µg/L	23.729 ppb	09:00:46
2	Fe 238.204 Radial†	17.3	1.7	22.681 µg/L	22.681 ppb	09:00:46
2	K 766.490 Radial†	405.7	25.0	15.769 µg/L	15.769 ppb	09:00:26
2	Mg 279.077 IEC†	7.9	0.1	1.3434 µg/L	1.3434 ppb	09:00:46
2	Na 589.592 Radial†	355.2	-182.8	-48.659 µg/L	-48.659 ppb	09:00:26
2	Sr 421.552†	640.6	35.0	0.2094 µg/L	0.2094 ppb	09:00:26
2	Sc 361.383	1922141.8	1922141.8	97.252 %		09:01:55
2	Y 371.029	1216343.9	1216343.9	97.377 %		09:01:55
2	Ag 328.068†	-47.8	43.4	0.3937 µg/L	0.3937 ppb	09:02:00
2	As 188.979†	-1.8	0.8	1.8301 µg/L	1.8301 ppb	09:02:21
2	B 249.677†	200.4	-163.9	-7.7756 µg/L	-7.7756 ppb	09:02:21
2	Ba 233.527†	-24.7	-1.4	-0.0390 µg/L	-0.0390 ppb	09:02:21
2	Be 313.107†	3943.2	220.8	0.1485 µg/L	0.1485 ppb	09:02:00
2	Cd 226.502†	-123.3	-1.5	-0.0455 µg/L	-0.0455 ppb	09:02:21
2	Co 228.616†	-42.6	5.5	0.2944 µg/L	0.2944 ppb	09:02:21
2	Cr 267.716†	-75.8	24.2	0.5414 µg/L	0.5414 ppb	09:02:00
2	Cu 324.752†	3857.1	66.1	0.4879 µg/L	0.4879 ppb	09:02:00
2	Mn 257.610†	-89.8	55.5	0.1996 µg/L	0.1996 ppb	09:02:21
2	Mo 202.031†	16.3	4.1	0.5020 µg/L	0.5020 ppb	09:02:21
2	Ni 231.604†	331.8	9.7	0.5888 µg/L	0.5888 ppb	09:02:21
2	P 214.914†	221.3	7.7	17.750 µg/L	17.750 ppb	09:02:21
2	Pb 220.353†	71.7	12.5	3.5236 µg/L	3.5236 ppb	09:02:21

2	S 181.975 Axial†	21.4	-1.1	-6.1056 µg/L	-6.1056 ppb	09:02:21
2	Sb 206.836†	18.3	-5.2	-5.4984 µg/L	-5.4984 ppb	09:02:21
2	Se 196.026†	7.1	-0.6	-0.8601 µg/L	-0.8601 ppb	09:02:21
2	SiO2†	2359.9	37.2	7.5956 µg/L	7.5956 ppb	09:02:00
2	Si 251.611†	324.6	51.3	4.1574 µg/L	4.1574 ppb	09:02:21
2	Sn 189.927†	22.4	-0.4	-0.2405 µg/L	-0.2405 ppb	09:02:21
2	Ti 334.940†	781.1	99.3	0.2402 µg/L	0.2402 ppb	09:02:00
2	Tl 190.801†	-16.8	7.3	12.102 µg/L	12.102 ppb	09:02:21
2	U 409.014†	-256.1	-77.1	-7.1706 µg/L	-7.1706 ppb	09:02:00
2	V 292.402†	-108.8	3.5	0.0406 µg/L	0.0406 ppb	09:02:00
2	Zn 213.857†	651.8	38.0	1.0622 µg/L	1.0622 ppb	09:02:21
3	Sc RADIAL	74848.0	74848.0	95.4 %		09:00:52
3	Al 396.153Radial†	-39.8	-12.2	-7.9072 µg/L	-7.9072 ppb	09:00:52
3	Ca 317.933Radial†	265.0	30.7	22.095 µg/L	22.095 ppb	09:01:12
3	Fe 238.204 Radial†	19.5	4.1	54.252 µg/L	54.252 ppb	09:01:12
3	K 766.490 Radial†	381.2	1.0	0.6230 µg/L	0.6230 ppb	09:00:52
3	Mg 279.077 IEC†	12.4	4.8	49.151 µg/L	49.151 ppb	09:01:12
3	Na 589.592 Radial†	386.6	-148.3	-39.485 µg/L	-39.485 ppb	09:00:52
3	Sr 421.552†	653.4	51.1	0.3055 µg/L	0.3055 ppb	09:00:52
3	Sc 361.383	1941523.0	1941523.0	98.233 %		09:02:27
3	Y 371.029	1228880.2	1228880.2	98.380 %		09:02:27
3	Ag 328.068†	-44.4	47.4	0.4321 µg/L	0.4321 ppb	09:02:32
3	As 188.979†	-2.5	0.2	0.4877 µg/L	0.4877 ppb	09:02:53
3	B 249.677†	200.7	-165.7	-7.8740 µg/L	-7.8740 ppb	09:02:53
3	Ba 233.527†	-23.5	-0.0	-0.0002 µg/L	-0.0002 ppb	09:02:53
3	Be 313.107†	3844.0	79.3	0.0533 µg/L	0.0533 ppb	09:02:32
3	Cd 226.502†	-121.4	1.7	0.0432 µg/L	0.0432 ppb	09:02:53
3	Co 228.616†	-49.3	-0.9	-0.0484 µg/L	-0.0484 ppb	09:02:53
3	Cr 267.716†	-75.5	25.3	0.5675 µg/L	0.5675 ppb	09:02:32
3	Cu 324.752†	3883.2	53.1	0.3972 µg/L	0.3972 ppb	09:02:32
3	Mn 257.610†	-89.3	56.9	0.2070 µg/L	0.2070 ppb	09:02:53
3	Mo 202.031†	20.3	8.1	0.9872 µg/L	0.9872 ppb	09:02:53
3	Ni 231.604†	329.1	3.6	0.2175 µg/L	0.2175 ppb	09:02:53
3	P 214.914†	211.8	-4.2	-9.7380 µg/L	-9.7380 ppb	09:02:53
3	Pb 220.353†	55.8	-4.4	-1.2137 µg/L	-1.2137 ppb	09:02:53
3	S 181.975 Axial†	24.4	1.7	9.6767 µg/L	9.6767 ppb	09:02:53
3	Sb 206.836†	26.1	2.6	2.7531 µg/L	2.7531 ppb	09:02:53
3	Se 196.026†	3.4	-4.4	-6.4727 µg/L	-6.4727 ppb	09:02:53
3	SiO2†	2345.6	-1.6	-0.3292 µg/L	-0.3292 ppb	09:02:32
3	Si 251.611†	327.9	51.3	4.1591 µg/L	4.1591 ppb	09:02:53
3	Sn 189.927†	23.8	0.7	0.4395 µg/L	0.4395 ppb	09:02:53
3	Ti 334.940†	782.0	92.2	0.2193 µg/L	0.2193 ppb	09:02:32
3	Tl 190.801†	-22.0	2.2	3.6142 µg/L	3.6142 ppb	09:02:53
3	U 409.014†	-280.4	-99.2	-9.2323 µg/L	-9.2323 ppb	09:02:32
3	V 292.402†	-108.1	5.2	0.0652 µg/L	0.0652 ppb	09:02:32
3	Zn 213.857†	657.7	37.2	1.0397 µg/L	1.0397 ppb	09:02:53

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1931272.4	97.714 %	0.4928			0.50%
Sc RADIAL	74840.3	95.4 %	0.40			0.42%
Y 371.029	1222197.1	97.845 %	0.5051			0.52%
Ag 328.068†	27.7	0.2534 µg/L	0.27695	0.2534 ppb	0.27695	109.31%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	18.7	12.121 µg/L	19.2985	12.121 ppb	19.2985	159.21%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.1	-0.1112 µg/L	2.30008	-0.1112 ppb	2.30008	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-165.7	-7.8652 µg/L	0.08546	-7.8652 ppb	0.08546	1.09%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.3	0.0914 µg/L	0.19318	0.0914 ppb	0.19318	211.36%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	155.5	0.1045 µg/L	0.04801	0.1045 ppb	0.04801	45.94%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	28.8	20.721 µg/L	3.8827	20.721 ppb	3.8827	18.74%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	0.7	0.0174 µg/L	0.05482	0.0174 ppb	0.05482	314.37%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	2.3	0.1247 µg/L	0.17141	0.1247 ppb	0.17141	137.46%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	26.3	0.5899 µg/L	0.06279	0.5899 ppb	0.06279 10.64%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	60.6	0.4492 µg/L	0.04679	0.4492 ppb	0.04679 10.42%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	2.7	35.776 µg/L	16.4591	35.776 ppb	16.4591 46.01%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	13.7	8.6676 µg/L	7.61701	8.6676 ppb	7.61701 87.88%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	2.1	21.099 µg/L	24.9600	21.099 ppb	24.9600 118.30%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	58.7	0.2120 µg/L	0.01557	0.2120 ppb	0.01557 7.34%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	4.2	0.5090 µg/L	0.47487	0.5090 ppb	0.47487 93.30%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	-176.2	-46.923 µg/L	6.7402	-46.923 ppb	6.7402 14.36%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	7.8	0.4754 µg/L	0.22392	0.4754 ppb	0.22392 47.10%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	0.8	1.7454 µg/L	14.29113	1.7454 ppb	14.29113 818.80%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	3.1	0.8665 µg/L	2.42078	0.8665 ppb	2.42078 279.39%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	-0.7	-4.0603 µg/L	12.83710	-4.0603 ppb	12.83710 316.16%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	0.3	0.3027 µg/L	5.04404	0.3027 ppb	5.04404 >999.9%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	-1.7	-2.4009 µg/L	3.56087	-2.4009 ppb	3.56087 148.31%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	26.9	5.4903 µg/L	5.10355	5.4903 ppb	5.10355 92.96%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	45.7	3.7011 µg/L	0.79188	3.7011 ppb	0.79188 21.40%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	0.4	0.2433 µg/L	0.42150	0.2433 ppb	0.42150 173.22%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	40.0	0.2393 µg/L	0.05738	0.2393 ppb	0.05738 23.97%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	110.5	0.2657 µg/L	0.06311	0.2657 ppb	0.06311 23.75%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	2.1	3.5261 µg/L	8.62036	3.5261 ppb	8.62036 244.47%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	-73.1	-6.8005 µg/L	2.63641	-6.8005 ppb	2.63641 38.77%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	8.7	0.1047 µg/L	0.09063	0.1047 ppb	0.09063 86.53%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	38.6	1.0795 µg/L	0.05067	1.0795 ppb	0.05067 4.69%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

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Analysis Begun

Start Time: 1/29/2010 09:14:22

Plasma On Time: 1/25/2010 05:31:26

Logged In Analyst: optima

Technique: ICP Continuous

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

Sample Information File: C:\pe\optima1\Sample Information\012910.sif

Batch ID:

Results Data Set: 012910

Results Library: c:\pe\optima1\Results\Results.mdb

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Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 1/29/2010 09:14:24

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:
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Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	77859.5	77859.5	99.2 %		09:15:02
1	Al 396.153Radial†	7651.7	7742.2	5003.4 µg/L	5003.4 ppb	09:15:02
1	Ca 317.933Radial†	6976.5	6785.0	4888.9 µg/L	4888.9 ppb	09:15:02
1	Fe 238.204 Radial†	396.4	383.2	5086.1 µg/L	5086.1 ppb	09:15:22
1	K 766.490 Radial†	8438.2	8106.8	5114.6 µg/L	5114.6 ppb	09:15:02
1	Mg 279.077 IEC†	500.7	496.6	5099.8 µg/L	5099.8 ppb	09:15:22
1	Na 589.592 Radial†	36953.4	36694.4	9769.3 µg/L	9769.3 ppb	09:15:02
1	Sr 421.552†	83842.1	83876.7	501.74 µg/L	501.74 ppb	09:15:02
1	Sc 361.383	1957567.7	1957567.7	99.044 %		09:16:26
1	Y 371.029	1232943.9	1232943.9	98.706 %		09:16:26
1	Ag 328.068†	58517.9	59175.1	538.00 µg/L	538.00 ppb	09:16:32
1	As 188.979†	243.6	248.7	541.08 µg/L	541.08 ppb	09:16:52
1	B 249.677†	11232.9	10971.4	517.89 µg/L	517.89 ppb	09:16:32
1	Ba 233.527†	18934.5	19141.1	535.64 µg/L	535.64 ppb	09:16:32
1	Be 313.107†	780906.2	784606.8	527.71 µg/L	527.71 ppb	09:16:26
1	Cd 226.502†	18541.2	18845.4	533.92 µg/L	533.92 ppb	09:16:32
1	Co 228.616†	9947.0	10092.2	536.25 µg/L	536.25 ppb	09:16:32
1	Cr 267.716†	23746.6	24077.8	539.84 µg/L	539.84 ppb	09:16:32
1	Cu 324.752†	76226.4	73061.9	536.42 µg/L	536.42 ppb	09:16:32
1	Mn 257.610†	147702.7	149275.6	529.59 µg/L	529.59 ppb	09:16:26
1	Mo 202.031†	4386.4	4416.2	535.19 µg/L	535.19 ppb	09:16:52
1	Ni 231.604†	9150.5	8907.4	538.76 µg/L	538.76 ppb	09:16:32
1	P 214.914†	1389.0	1182.5	2674.1 µg/L	2674.1 ppb	09:16:52
1	Pb 220.353†	1968.3	1926.1	540.49 µg/L	540.49 ppb	09:16:52
1	S 181.975 Axial†	218.8	197.7	1099.4 µg/L	1099.4 ppb	09:16:52
1	Sb 206.836†	531.5	512.6	544.35 µg/L	544.35 ppb	09:16:52
1	Se 196.026†	362.7	358.2	557.65 µg/L	557.65 ppb	09:16:52
1	SiO2†	30595.5	28501.3	5819.3 µg/L	5819.3 ppb	09:16:32
1	Si 251.611†	33554.3	33595.6	2721.4 µg/L	2721.4 ppb	09:16:32
1	Sn 189.927†	1000.3	986.4	558.55 µg/L	558.55 ppb	09:16:52
1	Ti 334.940†	218829.2	220236.6	532.06 µg/L	532.06 ppb	09:16:26
1	Tl 190.801†	291.9	319.2	536.21 µg/L	536.21 ppb	09:16:52
1	U 409.014†	5435.4	5674.0	526.38 µg/L	526.38 ppb	09:16:32
1	V 292.402†	44179.8	44721.4	544.29 µg/L	544.29 ppb	09:16:32
1	Zn 213.857†	19617.2	19174.2	535.21 µg/L	535.21 ppb	09:16:32
2	Sc RADIAL	77571.7	77571.7	98.8 %		09:15:28
2	Al 396.153Radial†	7695.5	7815.2	5050.7 µg/L	5050.7 ppb	09:15:28
2	Ca 317.933Radial†	7060.3	6895.8	4968.7 µg/L	4968.7 ppb	09:15:28
2	Fe 238.204 Radial†	396.3	384.6	5104.3 µg/L	5104.3 ppb	09:15:48
2	K 766.490 Radial†	8521.6	8222.7	5187.8 µg/L	5187.8 ppb	09:15:28
2	Mg 279.077 IEC†	504.5	502.3	5158.2 µg/L	5158.2 ppb	09:15:48
2	Na 589.592 Radial†	37572.9	37459.4	9973.0 µg/L	9973.0 ppb	09:15:28
2	Sr 421.552†	85219.5	85583.8	511.95 µg/L	511.95 ppb	09:15:28
2	Sc 361.383	1949683.7	1949683.7	98.645 %		09:16:59
2	Y 371.029	1227951.6	1227951.6	98.306 %		09:16:59
2	Ag 328.068†	58637.6	59535.4	541.27 µg/L	541.27 ppb	09:17:05
2	As 188.979†	242.6	248.7	541.05 µg/L	541.05 ppb	09:17:25

2	B 249.677†	11221.8	11005.9	519.52 µg/L	519.52 ppb	09:17:05
2	Ba 233.527†	18938.4	19222.4	537.91 µg/L	537.91 ppb	09:17:05
2	Be 313.107†	779763.3	786636.4	529.07 µg/L	529.07 ppb	09:16:59
2	Cd 226.502†	18645.6	19026.9	539.06 µg/L	539.06 ppb	09:17:05
2	Co 228.616†	9970.9	10157.2	539.70 µg/L	539.70 ppb	09:17:05
2	Cr 267.716†	23743.6	24171.8	541.95 µg/L	541.95 ppb	09:17:05
2	Cu 324.752†	76354.4	73502.8	539.66 µg/L	539.66 ppb	09:17:05
2	Mn 257.610†	147491.9	149664.9	530.97 µg/L	530.97 ppb	09:16:59
2	Mo 202.031†	4331.1	4378.0	530.56 µg/L	530.56 ppb	09:17:25
2	Ni 231.604†	9139.3	8933.4	540.32 µg/L	540.32 ppb	09:17:05
2	P 214.914†	1381.8	1180.9	2669.9 µg/L	2669.9 ppb	09:17:25
2	Pb 220.353†	1966.5	1932.4	542.22 µg/L	542.22 ppb	09:17:25
2	S 181.975 Axial†	215.3	195.1	1084.9 µg/L	1084.9 ppb	09:17:25
2	Sb 206.836†	527.9	511.1	542.69 µg/L	542.69 ppb	09:17:25
2	Se 196.026†	362.5	359.6	559.74 µg/L	559.74 ppb	09:17:25
2	SiO2†	30658.0	28689.6	5857.7 µg/L	5857.7 ppb	09:17:05
2	Si 251.611†	33563.3	33741.8	2733.2 µg/L	2733.2 ppb	09:17:05
2	Sn 189.927†	984.3	974.3	551.77 µg/L	551.77 ppb	09:17:25
2	Ti 334.940†	218287.1	220580.5	532.89 µg/L	532.89 ppb	09:16:59
2	Tl 190.801†	286.7	315.2	529.53 µg/L	529.53 ppb	09:17:25
2	U 409.014†	5496.1	5757.8	534.16 µg/L	534.16 ppb	09:17:05
2	V 292.402†	44260.1	44983.2	547.42 µg/L	547.42 ppb	09:17:05
2	Zn 213.857†	19663.3	19301.0	538.76 µg/L	538.76 ppb	09:17:05
3	Sc RADIAL	77311.9	77311.9	98.5 %		09:15:54
3	Al 396.153Radial†	7651.8	7796.9	5040.6 µg/L	5040.6 ppb	09:15:54
3	Ca 317.933Radial†	7055.7	6915.1	4982.7 µg/L	4982.7 ppb	09:15:54
3	Fe 238.204 Radial†	393.2	382.8	5078.8 µg/L	5078.8 ppb	09:16:14
3	K 766.490 Radial†	8415.2	8143.7	5137.9 µg/L	5137.9 ppb	09:15:54
3	Mg 279.077 IEC†	501.9	501.4	5147.4 µg/L	5147.4 ppb	09:16:14
3	Na 589.592 Radial†	37422.6	37434.5	9966.4 µg/L	9966.4 ppb	09:15:54
3	Sr 421.552†	85023.8	85674.9	512.50 µg/L	512.50 ppb	09:15:54
3	Sc 361.383	1955609.9	1955609.9	98.945 %		09:17:32
3	Y 371.029	1231308.7	1231308.7	98.575 %		09:17:32
3	Ag 328.068†	55359.3	56042.0	509.35 µg/L	509.35 ppb	09:17:38
3	As 188.979†	204.7	209.6	455.99 µg/L	455.99 ppb	09:17:59
3	B 249.677†	10523.4	10265.6	484.37 µg/L	484.37 ppb	09:17:38
3	Ba 233.527†	17269.6	17477.6	489.07 µg/L	489.07 ppb	09:17:38
3	Be 313.107†	737490.4	741517.5	498.73 µg/L	498.73 ppb	09:17:32
3	Cd 226.502†	16909.0	17214.6	487.65 µg/L	487.65 ppb	09:17:38
3	Co 228.616†	9010.4	9155.7	486.42 µg/L	486.42 ppb	09:17:38
3	Cr 267.716†	20898.5	21223.4	475.85 µg/L	475.85 ppb	09:17:38
3	Cu 324.752†	69484.3	66325.0	487.02 µg/L	487.02 ppb	09:17:38
3	Mn 257.610†	139779.4	141417.2	501.73 µg/L	501.73 ppb	09:17:32
3	Mo 202.031†	3674.4	3701.0	448.55 µg/L	448.55 ppb	09:17:59
3	Ni 231.604†	8193.6	7949.5	480.82 µg/L	480.82 ppb	09:17:38
3	P 214.914†	1206.2	999.2	2255.4 µg/L	2255.4 ppb	09:17:59
3	Pb 220.353†	1714.8	1671.9	469.08 µg/L	469.08 ppb	09:17:59
3	S 181.975 Axial†	197.5	176.5	981.35 µg/L	981.35 ppb	09:17:59
3	Sb 206.836†	453.6	434.4	460.98 µg/L	460.98 ppb	09:17:59
3	Se 196.026†	321.8	317.3	496.12 µg/L	496.12 ppb	09:17:59
3	SiO2†	28497.6	26411.9	5392.7 µg/L	5392.7 ppb	09:17:38
3	Si 251.611†	31013.5	31061.6	2516.1 µg/L	2516.1 ppb	09:17:38
3	Sn 189.927†	818.0	803.2	455.32 µg/L	455.32 ppb	09:17:59
3	Ti 334.940†	205486.4	206972.8	499.99 µg/L	499.99 ppb	09:17:32
3	Tl 190.801†	262.8	290.1	487.49 µg/L	487.49 ppb	09:17:59
3	U 409.014†	4828.9	5066.6	469.91 µg/L	469.91 ppb	09:17:38
3	V 292.402†	39608.8	40146.4	488.37 µg/L	488.37 ppb	09:17:38
3	Zn 213.857†	17771.9	17329.0	483.68 µg/L	483.68 ppb	09:17:38

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1954287.1	98.878 %	0.2077			0.21%
Sc RADIAL	77581.0	98.9 %	0.35			0.35%
Y 371.029	1230734.7	98.529 %	0.2038			0.21%
Ag 328.068†	58250.8	529.54 µg/L	17.559	529.54 ppb	17.559	3.32%
QC value within limits for Ag 328.068 Recovery = 105.91%						
Al 396.153Radial†	7784.8	5031.6 µg/L	24.92	5031.6 ppb	24.92	0.50%
QC value within limits for Al 396.153Radial Recovery = 100.63%						
As 188.979†	235.7	512.71 µg/L	49.118	512.71 ppb	49.118	9.58%

QC value within limits for As 188.979 Recovery = 102.54%						
B 249.677†	10747.6	507.26 µg/L	19.845	507.26 ppb	19.845	3.91%
QC value within limits for B 249.677 Recovery = 101.45%						
Ba 233.527†	18613.7	520.87 µg/L	27.565	520.87 ppb	27.565	5.29%
QC value within limits for Ba 233.527 Recovery = 104.17%						
Be 313.107†	770920.2	518.50 µg/L	17.139	518.50 ppb	17.139	3.31%
QC value within limits for Be 313.107 Recovery = 103.70%						
Ca 317.933Radial†	6865.3	4946.8 µg/L	50.59	4946.8 ppb	50.59	1.02%
QC value within limits for Ca 317.933Radial Recovery = 98.94%						
Cd 226.502†	18362.3	520.21 µg/L	28.312	520.21 ppb	28.312	5.44%
QC value within limits for Cd 226.502 Recovery = 104.04%						
Co 228.616†	9801.7	520.79 µg/L	29.815	520.79 ppb	29.815	5.72%
QC value within limits for Co 228.616 Recovery = 104.16%						
Cr 267.716†	23157.7	519.21 µg/L	37.569	519.21 ppb	37.569	7.24%
QC value within limits for Cr 267.716 Recovery = 103.84%						
Cu 324.752†	70963.2	521.03 µg/L	29.498	521.03 ppb	29.498	5.66%
QC value within limits for Cu 324.752 Recovery = 104.21%						
Fe 238.204 Radial†	383.5	5089.7 µg/L	13.17	5089.7 ppb	13.17	0.26%
QC value within limits for Fe 238.204 Radial Recovery = 101.79%						
K 766.490 Radial†	8157.8	5146.8 µg/L	37.36	5146.8 ppb	37.36	0.73%
QC value within limits for K 766.490 Radial Recovery = 102.94%						
Mg 279.077 IEC†	500.1	5135.1 µg/L	31.08	5135.1 ppb	31.08	0.61%
QC value within limits for Mg 279.077 IEC Recovery = 102.70%						
Mn 257.610†	146785.9	520.76 µg/L	16.496	520.76 ppb	16.496	3.17%
QC value within limits for Mn 257.610 Recovery = 104.15%						
Mo 202.031†	4165.0	504.77 µg/L	48.740	504.77 ppb	48.740	9.66%
QC value within limits for Mo 202.031 Recovery = 100.95%						
Na 589.592 Radial†	37196.1	9902.9 µg/L	115.72	9902.9 ppb	115.72	1.17%
QC value within limits for Na 589.592 Radial Recovery = 99.03%						
Ni 231.604†	8596.8	519.97 µg/L	33.914	519.97 ppb	33.914	6.52%
QC value within limits for Ni 231.604 Recovery = 103.99%						
P 214.914†	1120.9	2533.2 µg/L	240.55	2533.2 ppb	240.55	9.50%
QC value within limits for P 214.914 Recovery = 101.33%						
Pb 220.353†	1843.5	517.26 µg/L	41.741	517.26 ppb	41.741	8.07%
QC value within limits for Pb 220.353 Recovery = 103.45%						
S 181.975 Axial†	189.8	1055.2 µg/L	64.37	1055.2 ppb	64.37	6.10%
QC value within limits for S 181.975 Axial Recovery = 105.52%						
Sb 206.836†	486.0	516.01 µg/L	47.664	516.01 ppb	47.664	9.24%
QC value within limits for Sb 206.836 Recovery = 103.20%						
Se 196.026†	345.0	537.83 µg/L	36.145	537.83 ppb	36.145	6.72%
QC value within limits for Se 196.026 Recovery = 107.57%						
SiO2†	27867.6	5689.9 µg/L	258.11	5689.9 ppb	258.11	4.54%
QC value within limits for SiO2 Recovery = 106.40%						
Si 251.611†	32799.7	2656.9 µg/L	122.07	2656.9 ppb	122.07	4.59%
QC value within limits for Si 251.611 Recovery = 106.28%						
Sn 189.927†	921.3	521.88 µg/L	57.745	521.88 ppb	57.745	11.06%
QC value within limits for Sn 189.927 Recovery = 104.38%						
Sr 421.552†	85045.1	508.73 µg/L	6.059	508.73 ppb	6.059	1.19%
QC value within limits for Sr 421.552 Recovery = 101.75%						
Ti 334.940†	215930.0	521.65 µg/L	18.756	521.65 ppb	18.756	3.60%
QC value within limits for Ti 334.940 Recovery = 104.33%						
Tl 190.801†	308.2	517.75 µg/L	26.412	517.75 ppb	26.412	5.10%
QC value within limits for Tl 190.801 Recovery = 103.55%						
U 409.014†	5499.5	510.15 µg/L	35.061	510.15 ppb	35.061	6.87%
QC value within limits for U 409.014 Recovery = 102.03%						
V 292.402†	43283.6	526.70 µg/L	33.227	526.70 ppb	33.227	6.31%
QC value within limits for V 292.402 Recovery = 105.34%						
Zn 213.857†	18601.4	519.22 µg/L	30.829	519.22 ppb	30.829	5.94%
QC value within limits for Zn 213.857 Recovery = 103.84%						
All analyte(s) passed QC.						

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 09:18:08

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	76735.2	76735.2	97.8 %		09:18:41
1	Al 396.153Radial†	-33.9	-5.1	-3.3430 µg/L	-3.3430 ppb	09:18:41
1	Ca 317.933Radial†	269.5	28.5	20.516 µg/L	20.516 ppb	09:19:01
1	Fe 238.204 Radial†	18.1	2.1	28.382 µg/L	28.382 ppb	09:19:01
1	K 766.490 Radial†	389.4	-0.5	-0.2912 µg/L	-0.2912 ppb	09:18:41
1	Mg 279.077 IEC†	9.9	2.0	20.200 µg/L	20.200 ppb	09:19:01
1	Na 589.592 Radial†	390.4	-154.4	-41.117 µg/L	-41.117 ppb	09:18:41
1	Sr 421.552†	649.3	30.0	0.1795 µg/L	0.1795 ppb	09:18:41
1	Sc 361.383	1996537.0	1996537.0	101.02 %		09:20:03
1	Y 371.029	1262020.2	1262020.2	101.03 %		09:20:03
1	Ag 328.068†	-113.5	-19.8	-0.1761 µg/L	-0.1761 ppb	09:20:09
1	As 188.979†	-2.2	0.5	1.1857 µg/L	1.1857 ppb	09:20:29
1	B 249.677†	206.9	-165.1	-7.8318 µg/L	-7.8318 ppb	09:20:29
1	Ba 233.527†	-19.3	4.9	0.1364 µg/L	0.1364 ppb	09:20:29
1	Be 313.107†	3873.5	0.8	0.0005 µg/L	0.0005 ppb	09:20:09
1	Cd 226.502†	-126.9	-0.3	-0.0120 µg/L	-0.0120 ppb	09:20:29
1	Co 228.616†	-40.0	9.7	0.5194 µg/L	0.5194 ppb	09:20:29
1	Cr 267.716†	-46.9	55.7	1.2483 µg/L	1.2483 ppb	09:20:09
1	Cu 324.752†	3856.9	-81.8	-0.5960 µg/L	-0.5960 ppb	09:20:09
1	Mn 257.610†	-126.1	23.0	0.0846 µg/L	0.0846 ppb	09:20:29
1	Mo 202.031†	21.8	9.0	1.0924 µg/L	1.0924 ppb	09:20:29
1	Ni 231.604†	338.5	3.7	0.2227 µg/L	0.2227 ppb	09:20:29
1	P 214.914†	216.4	-5.6	-12.791 µg/L	-12.791 ppb	09:20:29
1	Pb 220.353†	50.3	-11.4	-3.1792 µg/L	-3.1792 ppb	09:20:29
1	S 181.975 Axial†	26.1	2.7	15.226 µg/L	15.226 ppb	09:20:29
1	Sb 206.836†	27.0	2.7	2.8469 µg/L	2.8469 ppb	09:20:29
1	Se 196.026†	4.5	-3.5	-5.1464 µg/L	-5.1464 ppb	09:20:29
1	SiO2†	2335.4	-77.5	-15.822 µg/L	-15.822 ppb	09:20:09
1	Si 251.611†	310.6	25.0	2.0285 µg/L	2.0285 ppb	09:20:29
1	Sn 189.927†	26.1	2.4	1.3472 µg/L	1.3472 ppb	09:20:29
1	Ti 334.940†	743.3	32.0	0.0761 µg/L	0.0761 ppb	09:20:09
1	Tl 190.801†	-23.9	0.8	1.3760 µg/L	1.3760 ppb	09:20:29
1	U 409.014†	-217.0	-28.6	-2.6640 µg/L	-2.6640 ppb	09:20:09
1	V 292.402†	-107.5	8.9	0.1168 µg/L	0.1168 ppb	09:20:09
1	Zn 213.857†	655.3	16.5	0.4605 µg/L	0.4605 ppb	09:20:29
2	Sc RADIAL	77394.0	77394.0	98.6 %		09:19:07
2	Al 396.153Radial†	-35.0	-5.9	-3.8725 µg/L	-3.8725 ppb	09:19:07
2	Ca 317.933Radial†	265.7	22.3	16.046 µg/L	16.046 ppb	09:19:27
2	Fe 238.204 Radial†	18.0	1.9	25.744 µg/L	25.744 ppb	09:19:27
2	K 766.490 Radial†	382.5	-10.8	-6.8291 µg/L	-6.8291 ppb	09:19:07
2	Mg 279.077 IEC†	5.2	-2.9	-29.688 µg/L	-29.688 ppb	09:19:27
2	Na 589.592 Radial†	408.1	-139.8	-37.231 µg/L	-37.231 ppb	09:19:07
2	Sr 421.552†	611.3	-14.1	-0.0844 µg/L	-0.0844 ppb	09:19:07
2	Sc 361.383	1995035.2	1995035.2	100.94 %		09:20:35
2	Y 371.029	1261365.6	1261365.6	100.98 %		09:20:35
2	Ag 328.068†	-50.6	42.4	0.3874 µg/L	0.3874 ppb	09:20:41
2	As 188.979†	-4.0	-1.2	-2.7021 µg/L	-2.7021 ppb	09:21:02
2	B 249.677†	200.4	-171.4	-8.1305 µg/L	-8.1305 ppb	09:21:02
2	Ba 233.527†	-26.8	-2.6	-0.0721 µg/L	-0.0721 ppb	09:21:02
2	Be 313.107†	3888.8	18.8	0.0126 µg/L	0.0126 ppb	09:20:41
2	Cd 226.502†	-128.9	-2.4	-0.0706 µg/L	-0.0706 ppb	09:21:02
2	Co 228.616†	-44.7	5.0	0.2681 µg/L	0.2681 ppb	09:21:02
2	Cr 267.716†	-66.8	36.0	0.8067 µg/L	0.8067 ppb	09:20:41
2	Cu 324.752†	3832.7	-103.0	-0.7515 µg/L	-0.7515 ppb	09:20:41
2	Mn 257.610†	-98.4	50.4	0.1831 µg/L	0.1831 ppb	09:21:02
2	Mo 202.031†	20.5	7.8	0.9413 µg/L	0.9413 ppb	09:21:02
2	Ni 231.604†	329.8	-4.7	-0.2851 µg/L	-0.2851 ppb	09:21:02
2	P 214.914†	211.5	-10.3	-23.806 µg/L	-23.806 ppb	09:21:02
2	Pb 220.353†	65.2	3.4	0.9573 µg/L	0.9573 ppb	09:21:02

2	S 181.975 Axial†	28.4	5.0	28.001 µg/L	28.001 ppb	09:21:02
2	Sb 206.836†	26.2	1.9	2.0186 µg/L	2.0186 ppb	09:21:02
2	Se 196.026†	13.3	5.2	7.9756 µg/L	7.9756 ppb	09:21:02
2	SiO2†	2317.4	-93.6	-19.106 µg/L	-19.106 ppb	09:20:41
2	Si 251.611†	296.2	11.0	0.8943 µg/L	0.8943 ppb	09:21:02
2	Sn 189.927†	20.2	-3.4	-1.9178 µg/L	-1.9178 ppb	09:21:02
2	Ti 334.940†	718.9	8.4	0.0228 µg/L	0.0228 ppb	09:20:41
2	Tl 190.801†	-23.1	1.7	2.7911 µg/L	2.7911 ppb	09:21:02
2	U 409.014†	-201.5	-13.4	-1.2479 µg/L	-1.2479 ppb	09:20:41
2	V 292.402†	-80.0	36.1	0.4435 µg/L	0.4435 ppb	09:20:41
2	Zn 213.857†	651.0	12.7	0.3599 µg/L	0.3599 ppb	09:21:02
3	Sc RADIAL	77334.7	77334.7	98.5 %		09:19:33
3	Al 396.153Radial†	-40.8	-11.9	-7.6826 µg/L	-7.6826 ppb	09:19:33
3	Ca 317.933Radial†	268.2	25.0	18.035 µg/L	18.035 ppb	09:19:53
3	Fe 238.204 Radial†	17.0	0.9	12.575 µg/L	12.575 ppb	09:19:53
3	K 766.490 Radial†	391.5	-1.4	-0.9002 µg/L	-0.9002 ppb	09:19:33
3	Mg 279.077 IEC†	14.3	6.3	64.967 µg/L	64.967 ppb	09:19:53
3	Na 589.592 Radial†	378.3	-169.8	-45.209 µg/L	-45.209 ppb	09:19:33
3	Sr 421.552†	663.4	39.2	0.2344 µg/L	0.2344 ppb	09:19:33
3	Sc 361.383	1984901.4	1984901.4	100.43 %		09:21:08
3	Y 371.029	1255339.1	1255339.1	100.50 %		09:21:08
3	Ag 328.068†	-89.0	4.0	0.0390 µg/L	0.0390 ppb	09:21:13
3	As 188.979†	-4.3	-1.5	-3.3782 µg/L	-3.3782 ppb	09:21:34
3	B 249.677†	199.8	-171.0	-8.1038 µg/L	-8.1038 ppb	09:21:34
3	Ba 233.527†	-12.3	11.7	0.3273 µg/L	0.3273 ppb	09:21:34
3	Be 313.107†	3906.7	56.3	0.0378 µg/L	0.0378 ppb	09:21:13
3	Cd 226.502†	-118.6	7.2	0.2019 µg/L	0.2019 ppb	09:21:34
3	Co 228.616†	-48.9	0.6	0.0328 µg/L	0.0328 ppb	09:21:34
3	Cr 267.716†	-93.1	9.5	0.2120 µg/L	0.2120 ppb	09:21:13
3	Cu 324.752†	3818.1	-98.1	-0.7178 µg/L	-0.7178 ppb	09:21:13
3	Mn 257.610†	-96.2	52.0	0.1835 µg/L	0.1835 ppb	09:21:34
3	Mo 202.031†	14.7	2.1	0.2524 µg/L	0.2524 ppb	09:21:34
3	Ni 231.604†	331.9	-0.9	-0.0554 µg/L	-0.0554 ppb	09:21:34
3	P 214.914†	217.2	-3.6	-8.1357 µg/L	-8.1357 ppb	09:21:34
3	Pb 220.353†	59.6	-1.8	-0.5179 µg/L	-0.5179 ppb	09:21:34
3	S 181.975 Axial†	25.1	1.9	10.299 µg/L	10.299 ppb	09:21:34
3	Sb 206.836†	27.2	3.1	3.2903 µg/L	3.2903 ppb	09:21:34
3	Se 196.026†	7.6	-0.4	-0.5974 µg/L	-0.5974 ppb	09:21:34
3	SiO2†	2333.1	-66.2	-13.516 µg/L	-13.516 ppb	09:21:13
3	Si 251.611†	302.9	19.2	1.5580 µg/L	1.5580 ppb	09:21:34
3	Sn 189.927†	24.7	1.1	0.6484 µg/L	0.6484 ppb	09:21:34
3	Ti 334.940†	803.8	96.5	0.2285 µg/L	0.2285 ppb	09:21:13
3	Tl 190.801†	-22.9	1.7	2.8628 µg/L	2.8628 ppb	09:21:34
3	U 409.014†	-181.2	5.8	0.5358 µg/L	0.5358 ppb	09:21:13
3	V 292.402†	-91.0	24.7	0.3005 µg/L	0.3005 ppb	09:21:13
3	Zn 213.857†	645.7	10.7	0.2982 µg/L	0.2982 ppb	09:21:34

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1992157.9	100.79 %	0.320			0.32%
Sc RADIAL	77154.6	98.3 %	0.46			0.47%
Y 371.029	1259575.0	100.84 %	0.295			0.29%
Ag 328.068†	8.9	0.0834 µg/L	0.28438	0.0834 ppb	0.28438	340.92%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-7.6	-4.9660 µg/L	2.36746	-4.9660 ppb	2.36746	47.67%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.7	-1.6315 µg/L	2.46307	-1.6315 ppb	2.46307	150.97%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-169.1	-8.0221 µg/L	0.16527	-8.0221 ppb	0.16527	2.06%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.7	0.1305 µg/L	0.19979	0.1305 ppb	0.19979	153.05%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	25.3	0.0170 µg/L	0.01904	0.0170 ppb	0.01904	112.11%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	25.3	18.199 µg/L	2.2398	18.199 ppb	2.2398	12.31%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	1.5	0.0398 µg/L	0.14343	0.0398 ppb	0.14343	360.66%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	5.1	0.2735 µg/L	0.24336	0.2735 ppb	0.24336	88.99%

Cr	267.716†	33.7	0.7557 µg/L	0.52006	0.7557 ppb	0.52006	68.82%
Cu	324.752†	-94.3	-0.6885 µg/L	0.08180	-0.6885 ppb	0.08180	11.88%
Fe	238.204 Radial†	1.7	22.233 µg/L	8.4679	22.233 ppb	8.4679	38.09%
K	766.490 Radial†	-4.2	-2.6735 µg/L	3.61174	-2.6735 ppb	3.61174	135.09%
Mg	279.077 IEC†	1.8	18.493 µg/L	47.3503	18.493 ppb	47.3503	256.04%
Mn	257.610†	41.8	0.1504 µg/L	0.05698	0.1504 ppb	0.05698	37.88%
Mo	202.031†	6.3	0.7620 µg/L	0.44782	0.7620 ppb	0.44782	58.77%
Na	589.592 Radial†	-154.7	-41.186 µg/L	3.9896	-41.186 ppb	3.9896	9.69%
Ni	231.604†	-0.6	-0.0393 µg/L	0.25427	-0.0393 ppb	0.25427	647.58%
P	214.914†	-6.5	-14.911 µg/L	8.0475	-14.911 ppb	8.0475	53.97%
Pb	220.353†	-3.3	-0.9133 µg/L	2.09641	-0.9133 ppb	2.09641	229.55%
S	181.975 Axial†	3.2	17.842 µg/L	9.1367	17.842 ppb	9.1367	51.21%
Sb	206.836†	2.6	2.7186 µg/L	0.64547	2.7186 ppb	0.64547	23.74%
Se	196.026†	0.4	0.7439 µg/L	6.66304	0.7439 ppb	6.66304	895.63%
SiO2†		-79.1	-16.148 µg/L	2.8090	-16.148 ppb	2.8090	17.40%
Si	251.611†	18.4	1.4936 µg/L	0.56986	1.4936 ppb	0.56986	38.15%
Sn	189.927†	0.0	0.0260 µg/L	1.71919	0.0260 ppb	1.71919	>999.9%
Sr	421.552†	18.4	0.1099 µg/L	0.17042	0.1099 ppb	0.17042	155.12%
Ti	334.940†	45.6	0.1091 µg/L	0.10677	0.1091 ppb	0.10677	97.83%
Tl	190.801†	1.4	2.3433 µg/L	0.83849	2.3433 ppb	0.83849	35.78%
U	409.014†	-12.1	-1.1254 µg/L	1.60346	-1.1254 ppb	1.60346	142.48%
V	292.402†	23.2	0.2869 µg/L	0.16373	0.2869 ppb	0.16373	57.06%
Zn	213.857†	13.3	0.3729 µg/L	0.08194	0.3729 ppb	0.08194	21.98%

QC value within limits for Co 228.616 Recovery = Not calculated

QC value within limits for Cr 267.716 Recovery = Not calculated

QC value within limits for Cu 324.752 Recovery = Not calculated

QC value within limits for Fe 238.204 Radial Recovery = Not calculated

QC value within limits for K 766.490 Radial Recovery = Not calculated

QC value within limits for Mg 279.077 IEC Recovery = Not calculated

QC value within limits for Mn 257.610 Recovery = Not calculated

QC value within limits for Mo 202.031 Recovery = Not calculated

QC value within limits for Na 589.592 Radial Recovery = Not calculated

QC value within limits for Ni 231.604 Recovery = Not calculated

QC value within limits for P 214.914 Recovery = Not calculated

QC value within limits for Pb 220.353 Recovery = Not calculated

QC value within limits for S 181.975 Axial Recovery = Not calculated

QC value within limits for Sb 206.836 Recovery = Not calculated

QC value within limits for Se 196.026 Recovery = Not calculated

QC value within limits for SiO2 Recovery = Not calculated

QC value within limits for Si 251.611 Recovery = Not calculated

QC value within limits for Sn 189.927 Recovery = Not calculated

QC value within limits for Sr 421.552 Recovery = Not calculated

QC value within limits for Ti 334.940 Recovery = Not calculated

QC value within limits for Tl 190.801 Recovery = Not calculated

QC value within limits for U 409.014 Recovery = Not calculated

QC value within limits for V 292.402 Recovery = Not calculated

QC value within limits for Zn 213.857 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 09:46:43

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	77219.8	77219.8	98.4 %		09:47:21
1	Al 396.153Radial†	7615.5	7769.4	5021.1 µg/L	5021.1 ppb	09:47:21
1	Ca 317.933Radial†	6926.3	6792.2	4894.1 µg/L	4894.1 ppb	09:47:21
1	Fe 238.204 Radial†	395.2	385.3	5113.6 µg/L	5113.6 ppb	09:47:41
1	K 766.490 Radial†	8404.5	8143.0	5137.5 µg/L	5137.5 ppb	09:47:21
1	Mg 279.077 IEC†	508.3	508.4	5221.5 µg/L	5221.5 ppb	09:47:41
1	Na 589.592 Radial†	37110.6	37162.8	9894.0 µg/L	9894.0 ppb	09:47:21
1	Sr 421.552†	83986.3	84723.4	506.81 µg/L	506.81 ppb	09:47:21
1	Sc 361.383	1958602.0	1958602.0	99.097 %		09:48:45
1	Y 371.029	1233502.2	1233502.2	98.750 %		09:48:45
1	Ag 328.068†	57843.8	58463.6	531.51 µg/L	531.51 ppb	09:48:50
1	As 188.979†	240.2	245.1	533.24 µg/L	533.24 ppb	09:49:11
1	B 249.677†	11029.1	10759.7	507.84 µg/L	507.84 ppb	09:48:50
1	Ba 233.527†	18526.1	18718.9	523.82 µg/L	523.82 ppb	09:48:50
1	Be 313.107†	767379.9	770540.9	518.24 µg/L	518.24 ppb	09:48:45
1	Cd 226.502†	18154.0	18444.8	522.55 µg/L	522.55 ppb	09:48:50
1	Co 228.616†	9769.5	9907.9	526.45 µg/L	526.45 ppb	09:48:50
1	Cr 267.716†	23304.7	23619.2	529.56 µg/L	529.56 ppb	09:48:50
1	Cu 324.752†	75435.0	72222.7	530.27 µg/L	530.27 ppb	09:48:50
1	Mn 257.610†	145345.7	146818.4	520.87 µg/L	520.87 ppb	09:48:45
1	Mo 202.031†	4339.8	4366.8	529.21 µg/L	529.21 ppb	09:49:11
1	Ni 231.604†	8957.7	8708.0	526.69 µg/L	526.69 ppb	09:48:50
1	P 214.914†	1371.0	1163.7	2631.1 µg/L	2631.1 ppb	09:49:11
1	Pb 220.353†	1955.9	1912.6	536.70 µg/L	536.70 ppb	09:49:11
1	S 181.975 Axial†	211.1	189.9	1055.6 µg/L	1055.6 ppb	09:49:11
1	Sb 206.836†	525.5	506.2	537.67 µg/L	537.67 ppb	09:49:11
1	Se 196.026†	364.5	359.8	560.12 µg/L	560.12 ppb	09:49:11
1	SiO2†	30179.5	28065.2	5730.3 µg/L	5730.3 ppb	09:48:50
1	Si 251.611†	33006.0	33024.4	2675.1 µg/L	2675.1 ppb	09:48:50
1	Sn 189.927†	975.5	961.0	544.22 µg/L	544.22 ppb	09:49:11
1	Ti 334.940†	216021.4	217286.5	524.92 µg/L	524.92 ppb	09:48:45
1	Tl 190.801†	292.2	319.4	536.52 µg/L	536.52 ppb	09:49:11
1	U 409.014†	5473.7	5709.8	529.70 µg/L	529.70 ppb	09:48:50
1	V 292.402†	43375.3	43886.0	534.18 µg/L	534.18 ppb	09:48:50
1	Zn 213.857†	19220.0	18762.9	523.71 µg/L	523.71 ppb	09:48:50
2	Sc RADIAL	77850.1	77850.1	99.2 %		09:47:47
2	Al 396.153Radial†	7659.8	7751.4	5009.5 µg/L	5009.5 ppb	09:47:47
2	Ca 317.933Radial†	7014.4	6824.0	4917.0 µg/L	4917.0 ppb	09:47:47
2	Fe 238.204 Radial†	393.1	379.9	5042.0 µg/L	5042.0 ppb	09:48:07
2	K 766.490 Radial†	8401.9	8071.3	5092.2 µg/L	5092.2 ppb	09:47:47
2	Mg 279.077 IEC†	503.1	499.0	5124.4 µg/L	5124.4 ppb	09:48:07
2	Na 589.592 Radial†	37298.5	37046.9	9863.1 µg/L	9863.1 ppb	09:47:47
2	Sr 421.552†	84483.1	84533.2	505.67 µg/L	505.67 ppb	09:47:47
2	Sc 361.383	1968145.7	1968145.7	99.580 %		09:49:18
2	Y 371.029	1239656.3	1239656.3	99.243 %		09:49:18
2	Ag 328.068†	57578.2	57913.8	526.52 µg/L	526.52 ppb	09:49:23
2	As 188.979†	234.9	238.6	519.06 µg/L	519.06 ppb	09:49:44
2	B 249.677†	11000.4	10676.9	503.94 µg/L	503.94 ppb	09:49:23
2	Ba 233.527†	18469.2	18571.1	519.69 µg/L	519.69 ppb	09:49:23
2	Be 313.107†	769401.5	768816.0	517.09 µg/L	517.09 ppb	09:49:18
2	Cd 226.502†	18101.5	18303.2	518.54 µg/L	518.54 ppb	09:49:23
2	Co 228.616†	9729.7	9820.1	521.78 µg/L	521.78 ppb	09:49:23
2	Cr 267.716†	23240.7	23441.0	525.56 µg/L	525.56 ppb	09:49:23
2	Cu 324.752†	75068.3	71485.3	524.86 µg/L	524.86 ppb	09:49:23
2	Mn 257.610†	145595.7	146358.3	519.24 µg/L	519.24 ppb	09:49:18
2	Mo 202.031†	4317.3	4322.9	523.89 µg/L	523.89 ppb	09:49:44
2	Ni 231.604†	8919.1	8625.3	521.69 µg/L	521.69 ppb	09:49:23
2	P 214.914†	1354.7	1140.6	2578.3 µg/L	2578.3 ppb	09:49:44
2	Pb 220.353†	1952.2	1899.3	532.95 µg/L	532.95 ppb	09:49:44

2	S 181.975 Axial†	214.1	191.9	1066.6 µg/L	1066.6 ppb	09:49:44
2	Sb 206.836†	522.5	500.7	531.78 µg/L	531.78 ppb	09:49:44
2	Se 196.026†	350.2	343.7	535.68 µg/L	535.68 ppb	09:49:44
2	SiO2†	30020.3	27757.7	5667.5 µg/L	5667.5 ppb	09:49:23
2	Si 251.611†	32896.1	32752.5	2653.1 µg/L	2653.1 ppb	09:49:23
2	Sn 189.927†	965.6	946.2	535.87 µg/L	535.87 ppb	09:49:44
2	Ti 334.940†	216284.3	216493.5	523.01 µg/L	523.01 ppb	09:49:18
2	Tl 190.801†	290.8	316.6	531.78 µg/L	531.78 ppb	09:49:44
2	U 409.014†	5469.4	5678.7	526.81 µg/L	526.81 ppb	09:49:23
2	V 292.402†	43307.0	43605.1	530.74 µg/L	530.74 ppb	09:49:23
2	Zn 213.857†	19160.5	18609.1	519.42 µg/L	519.42 ppb	09:49:23
3	Sc RADIAL	77304.2	77304.2	98.5 %		09:48:13
3	Al 396.153Radial†	7620.8	7766.2	5020.8 µg/L	5020.8 ppb	09:48:13
3	Ca 317.933Radial†	7025.1	6884.8	4960.8 µg/L	4960.8 ppb	09:48:13
3	Fe 238.204 Radial†	396.7	386.4	5126.6 µg/L	5126.6 ppb	09:48:33
3	K 766.490 Radial†	8469.5	8199.7	5173.2 µg/L	5173.2 ppb	09:48:13
3	Mg 279.077 IEC†	505.6	505.2	5186.5 µg/L	5186.5 ppb	09:48:33
3	Na 589.592 Radial†	37305.7	37319.7	9935.8 µg/L	9935.8 ppb	09:48:13
3	Sr 421.552†	84623.5	85277.0	510.12 µg/L	510.12 ppb	09:48:13
3	Sc 361.383	1964006.1	1964006.1	99.370 %		09:49:51
3	Y 371.029	1236455.6	1236455.6	98.987 %		09:49:51
3	Ag 328.068†	55004.7	55445.9	503.95 µg/L	503.95 ppb	09:49:57
3	As 188.979†	205.2	209.2	455.21 µg/L	455.21 ppb	09:50:17
3	B 249.677†	10444.6	10140.9	478.42 µg/L	478.42 ppb	09:49:57
3	Ba 233.527†	17123.2	17255.7	482.86 µg/L	482.86 ppb	09:49:57
3	Be 313.107†	733708.2	734525.0	494.02 µg/L	494.02 ppb	09:49:51
3	Cd 226.502†	16739.2	16970.6	480.73 µg/L	480.73 ppb	09:49:57
3	Co 228.616†	8905.0	9010.8	478.71 µg/L	478.71 ppb	09:49:57
3	Cr 267.716†	20768.2	21002.0	470.89 µg/L	470.89 ppb	09:49:57
3	Cu 324.752†	69306.8	65846.1	483.52 µg/L	483.52 ppb	09:49:57
3	Mn 257.610†	139120.4	140150.0	497.24 µg/L	497.24 ppb	09:49:51
3	Mo 202.031†	3665.2	3675.9	445.51 µg/L	445.51 ppb	09:50:17
3	Ni 231.604†	8159.7	7880.0	476.62 µg/L	476.62 ppb	09:49:57
3	P 214.914†	1195.0	982.8	2217.8 µg/L	2217.8 ppb	09:50:17
3	Pb 220.353†	1708.8	1658.5	465.32 µg/L	465.32 ppb	09:50:17
3	S 181.975 Axial†	195.4	173.5	964.57 µg/L	964.57 ppb	09:50:17
3	Sb 206.836†	458.7	437.6	464.34 µg/L	464.34 ppb	09:50:17
3	Se 196.026†	314.8	308.9	483.63 µg/L	483.63 ppb	09:50:17
3	SiO2†	28323.6	26113.7	5331.8 µg/L	5331.8 ppb	09:49:57
3	Si 251.611†	30911.7	30825.2	2497.0 µg/L	2497.0 ppb	09:49:57
3	Sn 189.927†	814.4	796.1	451.29 µg/L	451.29 ppb	09:50:17
3	Ti 334.940†	205188.3	205785.0	497.12 µg/L	497.12 ppb	09:49:51
3	Tl 190.801†	254.9	281.0	472.28 µg/L	472.28 ppb	09:50:17
3	U 409.014†	4839.3	5056.2	468.94 µg/L	468.94 ppb	09:49:57
3	V 292.402†	39415.1	39780.2	483.93 µg/L	483.93 ppb	09:49:57
3	Zn 213.857†	17630.1	17109.6	477.53 µg/L	477.53 ppb	09:49:57

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1963584.6	99.349 %	0.2421			0.24%
Sc RADIAL	77458.0	98.7 %	0.44			0.44%
Y 371.029	1236538.0	98.994 %	0.2464			0.25%
Ag 328.068†	57274.5	520.66 µg/L	14.687	520.66 ppb	14.687	2.82%
QC value within limits for Ag 328.068 Recovery = 104.13%						
Al 396.153Radial†	7762.3	5017.1 µg/L	6.58	5017.1 ppb	6.58	0.13%
QC value within limits for Al 396.153Radial Recovery = 100.34%						
As 188.979†	231.0	502.51 µg/L	41.565	502.51 ppb	41.565	8.27%
QC value within limits for As 188.979 Recovery = 100.50%						
B 249.677†	10525.8	496.73 µg/L	15.978	496.73 ppb	15.978	3.22%
QC value within limits for B 249.677 Recovery = 99.35%						
Ba 233.527†	18181.9	508.79 µg/L	22.550	508.79 ppb	22.550	4.43%
QC value within limits for Ba 233.527 Recovery = 101.76%						
Be 313.107†	757960.6	509.78 µg/L	13.662	509.78 ppb	13.662	2.68%
QC value within limits for Be 313.107 Recovery = 101.96%						
Ca 317.933Radial†	6833.7	4924.0 µg/L	33.90	4924.0 ppb	33.90	0.69%
QC value within limits for Ca 317.933Radial Recovery = 98.48%						
Cd 226.502†	17906.2	507.28 µg/L	23.075	507.28 ppb	23.075	4.55%
QC value within limits for Cd 226.502 Recovery = 101.46%						
Co 228.616†	9579.6	508.98 µg/L	26.318	508.98 ppb	26.318	5.17%

QC value within limits for Co 228.616 Recovery = 101.80%						
Cr 267.716†	22687.4	508.67 µg/L	32.784	508.67 ppb	32.784	6.44%
QC value within limits for Cr 267.716 Recovery = 101.73%						
Cu 324.752†	69851.3	512.88 µg/L	25.573	512.88 ppb	25.573	4.99%
QC value within limits for Cu 324.752 Recovery = 102.58%						
Fe 238.204 Radial†	383.9	5094.1 µg/L	45.60	5094.1 ppb	45.60	0.90%
QC value within limits for Fe 238.204 Radial Recovery = 101.88%						
K 766.490 Radial†	8138.0	5134.3 µg/L	40.61	5134.3 ppb	40.61	0.79%
QC value within limits for K 766.490 Radial Recovery = 102.69%						
Mg 279.077 IEC†	504.2	5177.5 µg/L	49.21	5177.5 ppb	49.21	0.95%
QC value within limits for Mg 279.077 IEC Recovery = 103.55%						
Mn 257.610†	144442.2	512.45 µg/L	13.198	512.45 ppb	13.198	2.58%
QC value within limits for Mn 257.610 Recovery = 102.49%						
Mo 202.031†	4121.8	499.54 µg/L	46.865	499.54 ppb	46.865	9.38%
QC value within limits for Mo 202.031 Recovery = 99.91%						
Na 589.592 Radial†	37176.5	9897.6 µg/L	36.45	9897.6 ppb	36.45	0.37%
QC value within limits for Na 589.592 Radial Recovery = 98.98%						
Ni 231.604†	8404.4	508.33 µg/L	27.581	508.33 ppb	27.581	5.43%
QC value within limits for Ni 231.604 Recovery = 101.67%						
P 214.914†	1095.7	2475.7 µg/L	224.95	2475.7 ppb	224.95	9.09%
QC value within limits for P 214.914 Recovery = 99.03%						
Pb 220.353†	1823.5	511.66 µg/L	40.175	511.66 ppb	40.175	7.85%
QC value within limits for Pb 220.353 Recovery = 102.33%						
S 181.975 Axial†	185.1	1028.9 µg/L	56.00	1028.9 ppb	56.00	5.44%
QC value within limits for S 181.975 Axial Recovery = 102.89%						
Sb 206.836†	481.5	511.26 µg/L	40.743	511.26 ppb	40.743	7.97%
QC value within limits for Sb 206.836 Recovery = 102.25%						
Se 196.026†	337.5	526.47 µg/L	39.065	526.47 ppb	39.065	7.42%
QC value within limits for Se 196.026 Recovery = 105.29%						
SiO2†	27312.2	5576.5 µg/L	214.23	5576.5 ppb	214.23	3.84%
QC value within limits for SiO2 Recovery = 104.28%						
Si 251.611†	32200.7	2608.4 µg/L	97.12	2608.4 ppb	97.12	3.72%
QC value within limits for Si 251.611 Recovery = 104.34%						
Sn 189.927†	901.1	510.46 µg/L	51.413	510.46 ppb	51.413	10.07%
QC value within limits for Sn 189.927 Recovery = 102.09%						
Sr 421.552†	84844.5	507.53 µg/L	2.312	507.53 ppb	2.312	0.46%
QC value within limits for Sr 421.552 Recovery = 101.51%						
Ti 334.940†	213188.4	515.02 µg/L	15.528	515.02 ppb	15.528	3.02%
QC value within limits for Ti 334.940 Recovery = 103.00%						
Tl 190.801†	305.7	513.53 µg/L	35.802	513.53 ppb	35.802	6.97%
QC value within limits for Tl 190.801 Recovery = 102.71%						
U 409.014†	5481.6	508.48 µg/L	34.276	508.48 ppb	34.276	6.74%
QC value within limits for U 409.014 Recovery = 101.70%						
V 292.402†	42423.8	516.28 µg/L	28.070	516.28 ppb	28.070	5.44%
QC value within limits for V 292.402 Recovery = 103.26%						
Zn 213.857†	18160.5	506.89 µg/L	25.514	506.89 ppb	25.514	5.03%
QC value within limits for Zn 213.857 Recovery = 101.38%						

All analyte(s) passed QC.

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

Autosampler Location: 8
 Date Collected: 1/29/2010 09:50:26
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	76577.5	76577.5	97.6 %		09:50:59
1	Al 396.153Radial†	-9.9	19.4	12.528 µg/L	12.528 ppb	09:50:59
1	Ca 317.933Radial†	274.4	34.0	24.489 µg/L	24.489 ppb	09:51:19
1	Fe 238.204 Radial†	18.3	2.4	31.434 µg/L	31.434 ppb	09:51:19
1	K 766.490 Radial†	383.4	-5.8	-3.6674 µg/L	-3.6674 ppb	09:50:59
1	Mg 279.077 IEC†	10.4	2.5	25.357 µg/L	25.357 ppb	09:51:19
1	Na 589.592 Radial†	378.9	-165.3	-44.015 µg/L	-44.015 ppb	09:50:59
1	Sr 421.552†	669.8	52.4	0.3135 µg/L	0.3135 ppb	09:50:59
1	Sc 361.383	1966588.9	1966588.9	99.501 %		09:52:21
1	Y 371.029	1242735.0	1242735.0	99.490 %		09:52:21
1	Ag 328.068†	-48.5	43.8	0.3981 µg/L	0.3981 ppb	09:52:26
1	As 188.979†	0.6	3.4	7.3401 µg/L	7.3401 ppb	09:52:47
1	B 249.677†	198.9	-170.1	-8.0700 µg/L	-8.0700 ppb	09:52:47
1	Ba 233.527†	-17.7	6.1	0.1717 µg/L	0.1717 ppb	09:52:47
1	Be 313.107†	4135.0	322.0	0.2165 µg/L	0.2165 ppb	09:52:26
1	Cd 226.502†	-111.5	13.3	0.3718 µg/L	0.3718 ppb	09:52:47
1	Co 228.616†	-44.8	4.2	0.2271 µg/L	0.2271 ppb	09:52:47
1	Cr 267.716†	-63.9	37.9	0.8494 µg/L	0.8494 ppb	09:52:26
1	Cu 324.752†	3849.0	-31.7	-0.2280 µg/L	-0.2280 ppb	09:52:26
1	Mn 257.610†	-19.1	128.7	0.4593 µg/L	0.4593 ppb	09:52:47
1	Mo 202.031†	28.7	16.3	1.9744 µg/L	1.9744 ppb	09:52:47
1	Ni 231.604†	326.9	-2.9	-0.1746 µg/L	-0.1746 ppb	09:52:47
1	P 214.914†	212.1	-6.7	-15.431 µg/L	-15.431 ppb	09:52:47
1	Pb 220.353†	68.6	7.8	2.1836 µg/L	2.1836 ppb	09:52:47
1	S 181.975 Axial†	21.9	-1.2	-6.4841 µg/L	-6.4841 ppb	09:52:47
1	Sb 206.836†	24.1	0.2	0.2029 µg/L	0.2029 ppb	09:52:47
1	Se 196.026†	10.9	3.0	4.6137 µg/L	4.6137 ppb	09:52:47
1	SiO2†	2371.3	-6.2	-1.2693 µg/L	-1.2693 ppb	09:52:26
1	Si 251.611†	364.3	83.7	6.7807 µg/L	6.7807 ppb	09:52:47
1	Sn 189.927†	24.2	0.9	0.4983 µg/L	0.4983 ppb	09:52:47
1	Ti 334.940†	821.8	122.0	0.2934 µg/L	0.2934 ppb	09:52:26
1	Tl 190.801†	-24.2	0.2	0.2739 µg/L	0.2739 ppb	09:52:47
1	U 409.014†	-146.4	39.0	3.6225 µg/L	3.6225 ppb	09:52:26
1	V 292.402†	-109.2	5.5	0.0893 µg/L	0.0893 ppb	09:52:26
1	Zn 213.857†	655.9	26.9	0.7542 µg/L	0.7542 ppb	09:52:47
2	Sc RADIAL	76688.1	76688.1	97.7 %		09:51:25
2	Al 396.153Radial†	-25.5	3.4	2.2212 µg/L	2.2212 ppb	09:51:25
2	Ca 317.933Radial†	270.3	29.5	21.243 µg/L	21.243 ppb	09:51:45
2	Fe 238.204 Radial†	18.9	3.0	39.528 µg/L	39.528 ppb	09:51:45
2	K 766.490 Radial†	384.8	-4.9	-3.0744 µg/L	-3.0744 ppb	09:51:25
2	Mg 279.077 IEC†	12.3	4.5	45.689 µg/L	45.689 ppb	09:51:45
2	Na 589.592 Radial†	385.3	-159.3	-42.417 µg/L	-42.417 ppb	09:51:25
2	Sr 421.552†	659.8	41.2	0.2463 µg/L	0.2463 ppb	09:51:25
2	Sc 361.383	1983946.8	1983946.8	100.38 %		09:52:53
2	Y 371.029	1254051.0	1254051.0	100.40 %		09:52:53
2	Ag 328.068†	-40.7	52.0	0.4738 µg/L	0.4738 ppb	09:52:58
2	As 188.979†	-0.9	1.8	3.9499 µg/L	3.9499 ppb	09:53:19
2	B 249.677†	185.3	-185.4	-8.8003 µg/L	-8.8003 ppb	09:53:19
2	Ba 233.527†	-12.0	12.0	0.3363 µg/L	0.3363 ppb	09:53:19
2	Be 313.107†	4084.4	235.2	0.1581 µg/L	0.1581 ppb	09:52:58
2	Cd 226.502†	-117.4	8.4	0.2327 µg/L	0.2327 ppb	09:53:19
2	Co 228.616†	-51.2	-1.7	-0.0896 µg/L	-0.0896 ppb	09:53:19
2	Cr 267.716†	-66.6	35.8	0.8014 µg/L	0.8014 ppb	09:52:58
2	Cu 324.752†	3831.2	-83.2	-0.6045 µg/L	-0.6045 ppb	09:52:58
2	Mn 257.610†	-71.9	76.2	0.2737 µg/L	0.2737 ppb	09:53:19
2	Mo 202.031†	17.4	4.7	0.5754 µg/L	0.5754 ppb	09:53:19
2	Ni 231.604†	334.4	1.8	0.1068 µg/L	0.1068 ppb	09:53:19
2	P 214.914†	222.9	2.2	5.1573 µg/L	5.1573 ppb	09:53:19
2	Pb 220.353†	62.5	1.1	0.3061 µg/L	0.3061 ppb	09:53:19

2	S 181.975 Axial†	22.4	-0.9	-4.8176 µg/L	-4.8176 ppb	09:53:19
2	Sb 206.836†	23.6	-0.5	-0.5753 µg/L	-0.5753 ppb	09:53:19
2	Se 196.026†	7.6	-0.4	-0.3957 µg/L	-0.3957 ppb	09:53:19
2	SiO2†	2372.4	-25.9	-5.2974 µg/L	-5.2974 ppb	09:52:58
2	Si 251.611†	352.2	68.5	5.5461 µg/L	5.5461 ppb	09:53:19
2	Sn 189.927†	25.7	2.1	1.2209 µg/L	1.2209 ppb	09:53:19
2	Ti 334.940†	825.0	118.1	0.2821 µg/L	0.2821 ppb	09:52:58
2	Tl 190.801†	-26.1	-1.5	-2.4946 µg/L	-2.4946 ppb	09:53:19
2	U 409.014†	-193.9	-7.0	-0.6560 µg/L	-0.6560 ppb	09:52:58
2	V 292.402†	-90.6	25.1	0.3096 µg/L	0.3096 ppb	09:52:58
2	Zn 213.857†	647.8	13.1	0.3654 µg/L	0.3654 ppb	09:53:19
3	Sc RADIAL	77058.9	77058.9	98.2 %		09:51:50
3	Al 396.153Radial†	-21.7	7.4	4.7789 µg/L	4.7789 ppb	09:51:50
3	Ca 317.933Radial†	271.1	28.9	20.815 µg/L	20.815 ppb	09:52:11
3	Fe 238.204 Radial†	18.6	2.6	34.881 µg/L	34.881 ppb	09:52:11
3	K 766.490 Radial†	421.8	30.9	19.483 µg/L	19.483 ppb	09:51:50
3	Mg 279.077 IEC†	8.4	0.4	4.4727 µg/L	4.4727 ppb	09:52:11
3	Na 589.592 Radial†	363.7	-183.3	-48.801 µg/L	-48.801 ppb	09:51:50
3	Sr 421.552†	622.6	0.1	0.0003 µg/L	0.0003 ppb	09:51:50
3	Sc 361.383	1981661.5	1981661.5	100.26 %		09:53:25
3	Y 371.029	1252898.4	1252898.4	100.30 %		09:53:25
3	Ag 328.068†	-86.2	6.6	0.0611 µg/L	0.0611 ppb	09:53:30
3	As 188.979†	1.3	4.0	8.7646 µg/L	8.7646 ppb	09:53:51
3	B 249.677†	200.0	-170.5	-8.0916 µg/L	-8.0916 ppb	09:53:51
3	Ba 233.527†	-20.9	3.1	0.0871 µg/L	0.0871 ppb	09:53:51
3	Be 313.107†	4057.4	213.0	0.1433 µg/L	0.1433 ppb	09:53:30
3	Cd 226.502†	-115.8	9.8	0.2735 µg/L	0.2735 ppb	09:53:51
3	Co 228.616†	-43.8	5.6	0.2976 µg/L	0.2976 ppb	09:53:51
3	Cr 267.716†	-69.8	32.5	0.7287 µg/L	0.7287 ppb	09:53:30
3	Cu 324.752†	3845.5	-64.5	-0.4682 µg/L	-0.4682 ppb	09:53:30
3	Mn 257.610†	-86.0	62.0	0.2243 µg/L	0.2243 ppb	09:53:51
3	Mo 202.031†	13.3	0.7	0.0859 µg/L	0.0859 ppb	09:53:51
3	Ni 231.604†	324.3	-8.0	-0.4819 µg/L	-0.4819 ppb	09:53:51
3	P 214.914†	211.8	-8.6	-19.834 µg/L	-19.834 ppb	09:53:51
3	Pb 220.353†	58.9	-2.4	-0.6843 µg/L	-0.6843 ppb	09:53:51
3	S 181.975 Axial†	23.9	0.7	4.0743 µg/L	4.0743 ppb	09:53:51
3	Sb 206.836†	28.3	4.3	4.4988 µg/L	4.4988 ppb	09:53:51
3	Se 196.026†	8.8	0.9	1.4456 µg/L	1.4456 ppb	09:53:51
3	SiO2†	2362.2	-33.4	-6.8201 µg/L	-6.8201 ppb	09:53:30
3	Si 251.611†	351.7	68.3	5.5339 µg/L	5.5339 ppb	09:53:51
3	Sn 189.927†	22.7	-0.8	-0.4394 µg/L	-0.4394 ppb	09:53:51
3	Ti 334.940†	743.7	37.9	0.0916 µg/L	0.0916 ppb	09:53:30
3	Tl 190.801†	-20.6	4.0	6.6248 µg/L	6.6248 ppb	09:53:51
3	U 409.014†	-201.5	-14.8	-1.3771 µg/L	-1.3771 ppb	09:53:30
3	V 292.402†	-127.8	-12.2	-0.1439 µg/L	-0.1439 ppb	09:53:30
3	Zn 213.857†	657.4	23.4	0.6587 µg/L	0.6587 ppb	09:53:51

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1977399.1	100.05 %	0.477			0.48%
Sc RADIAL	76774.8	97.8 %	0.32			0.33%
Y 371.029	1249894.8	100.06 %	0.499			0.50%
Ag 328.068†	34.2	0.3110 µg/L	0.21975	0.3110 ppb	0.21975	70.65%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.1	6.5094 µg/L	5.36686	6.5094 ppb	5.36686	82.45%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	3.1	6.6849 µg/L	2.47335	6.6849 ppb	2.47335	37.00%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-175.3	-8.3206 µg/L	0.41558	-8.3206 ppb	0.41558	4.99%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.1	0.1984 µg/L	0.12671	0.1984 ppb	0.12671	63.88%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	256.7	0.1726 µg/L	0.03873	0.1726 ppb	0.03873	22.44%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	30.8	22.183 µg/L	2.0092	22.183 ppb	2.0092	9.06%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	10.5	0.2927 µg/L	0.07148	0.2927 ppb	0.07148	24.42%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	2.7	0.1451 µg/L	0.20626	0.1451 ppb	0.20626	142.19%

Cr	267.716†	35.4	0.7932 µg/L	0.06077	0.7932 ppb	0.06077	7.66%
Cu	324.752†	-59.8	-0.4336 µg/L	0.19060	-0.4336 ppb	0.19060	43.96%
Fe	238.204 Radial†	2.7	35.281 µg/L	4.0620	35.281 ppb	4.0620	11.51%
K	766.490 Radial†	6.7	4.2470 µg/L	13.19800	4.2470 ppb	13.19800	310.76%
Mg	279.077 IEC†	2.5	25.173 µg/L	20.6087	25.173 ppb	20.6087	81.87%
Mn	257.610†	89.0	0.3191 µg/L	0.12391	0.3191 ppb	0.12391	38.83%
Mo	202.031†	7.2	0.8786 µg/L	0.98005	0.8786 ppb	0.98005	111.55%
Na	589.592 Radial†	-169.3	-45.078 µg/L	3.3220	-45.078 ppb	3.3220	7.37%
Ni	231.604†	-3.0	-0.1832 µg/L	0.29442	-0.1832 ppb	0.29442	160.67%
P	214.914†	-4.4	-10.036 µg/L	13.3408	-10.036 ppb	13.3408	132.93%
Pb	220.353†	2.1	0.6018 µg/L	1.45661	0.6018 ppb	1.45661	242.04%
S	181.975 Axial†	-0.4	-2.4091 µg/L	5.67634	-2.4091 ppb	5.67634	235.62%
Sb	206.836†	1.3	1.3755 µg/L	2.73276	1.3755 ppb	2.73276	198.68%
Se	196.026†	1.2	1.8879 µg/L	2.53383	1.8879 ppb	2.53383	134.22%
SiO2†		-21.9	-4.4623 µg/L	2.86810	-4.4623 ppb	2.86810	64.27%
Si	251.611†	73.5	5.9536 µg/L	0.71635	5.9536 ppb	0.71635	12.03%
Sn	189.927†	0.7	0.4266 µg/L	0.83249	0.4266 ppb	0.83249	195.15%
Sr	421.552†	31.2	0.1867 µg/L	0.16487	0.1867 ppb	0.16487	88.30%
Ti	334.940†	92.7	0.2224 µg/L	0.11337	0.2224 ppb	0.11337	50.98%
Tl	190.801†	0.9	1.4680 µg/L	4.67552	1.4680 ppb	4.67552	318.49%
U	409.014†	5.8	0.5298 µg/L	2.70253	0.5298 ppb	2.70253	510.08%
V	292.402†	6.1	0.0850 µg/L	0.22676	0.0850 ppb	0.22676	266.91%
Zn	213.857†	21.1	0.5928 µg/L	0.20260	0.5928 ppb	0.20260	34.18%

QC value within limits for Co 228.616 Recovery = Not calculated

QC value within limits for Cr 267.716 Recovery = Not calculated

QC value within limits for Cu 324.752 Recovery = Not calculated

QC value within limits for Fe 238.204 Radial Recovery = Not calculated

QC value within limits for K 766.490 Radial Recovery = Not calculated

QC value within limits for Mg 279.077 IEC Recovery = Not calculated

QC value within limits for Mn 257.610 Recovery = Not calculated

QC value within limits for Mo 202.031 Recovery = Not calculated

QC value within limits for Na 589.592 Radial Recovery = Not calculated

QC value within limits for Ni 231.604 Recovery = Not calculated

QC value within limits for P 214.914 Recovery = Not calculated

QC value within limits for Pb 220.353 Recovery = Not calculated

QC value within limits for S 181.975 Axial Recovery = Not calculated

QC value within limits for Sb 206.836 Recovery = Not calculated

QC value within limits for Se 196.026 Recovery = Not calculated

QC value within limits for SiO2 Recovery = Not calculated

QC value within limits for Si 251.611 Recovery = Not calculated

QC value within limits for Sn 189.927 Recovery = Not calculated

QC value within limits for Sr 421.552 Recovery = Not calculated

QC value within limits for Ti 334.940 Recovery = Not calculated

QC value within limits for Tl 190.801 Recovery = Not calculated

QC value within limits for U 409.014 Recovery = Not calculated

QC value within limits for V 292.402 Recovery = Not calculated

QC value within limits for Zn 213.857 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 19

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 10:19:55

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	77091.8	77091.8	98.2 %		10:20:32
1	Al 396.153Radial†	7767.3	7936.7	5129.3 µg/L	5129.3 ppb	10:20:32
1	Ca 317.933Radial†	7091.1	6971.6	5023.4 µg/L	5023.4 ppb	10:20:32
1	Fe 238.204 Radial†	403.8	394.7	5237.9 µg/L	5237.9 ppb	10:20:52
1	K 766.490 Radial†	8574.9	8330.7	5255.9 µg/L	5255.9 ppb	10:20:32
1	Mg 279.077 IEC†	510.7	511.7	5255.1 µg/L	5255.1 ppb	10:20:52
1	Na 589.592 Radial†	37737.0	37863.0	10080 µg/L	10080 ppb	10:20:32
1	Sr 421.552†	85672.0	86581.2	517.92 µg/L	517.92 ppb	10:20:32
1	Sc 361.383	1952077.5	1952077.5	98.767 %		10:21:56
1	Y 371.029	1229532.4	1229532.4	98.433 %		10:21:56
1	Ag 328.068†	58259.6	59079.7	537.13 µg/L	537.13 ppb	10:22:01
1	As 188.979†	247.5	253.3	551.07 µg/L	551.07 ppb	10:22:22
1	B 249.677†	11117.2	10886.1	513.77 µg/L	513.77 ppb	10:22:01
1	Ba 233.527†	18680.4	18937.6	529.95 µg/L	529.95 ppb	10:22:01
1	Be 313.107†	781423.3	787347.8	529.55 µg/L	529.55 ppb	10:21:56
1	Cd 226.502†	18325.4	18679.5	529.19 µg/L	529.19 ppb	10:22:01
1	Co 228.616†	9811.2	9983.1	530.44 µg/L	530.44 ppb	10:22:01
1	Cr 267.716†	23525.8	23921.8	536.34 µg/L	536.34 ppb	10:22:01
1	Cu 324.752†	76047.0	73096.7	536.70 µg/L	536.70 ppb	10:22:01
1	Mn 257.610†	145679.2	147646.3	523.82 µg/L	523.82 ppb	10:22:01
1	Mo 202.031†	4424.2	4466.9	541.34 µg/L	541.34 ppb	10:22:22
1	Ni 231.604†	9001.4	8782.4	531.19 µg/L	531.19 ppb	10:22:01
1	P 214.914†	1388.2	1185.7	2681.2 µg/L	2681.2 ppb	10:22:22
1	Pb 220.353†	1979.3	1942.9	545.20 µg/L	545.20 ppb	10:22:22
1	S 181.975 Axial†	219.8	199.4	1108.4 µg/L	1108.4 ppb	10:22:22
1	Sb 206.836†	536.0	518.6	550.89 µg/L	550.89 ppb	10:22:22
1	Se 196.026†	364.3	360.9	562.24 µg/L	562.24 ppb	10:22:22
1	SiO2†	30471.5	28462.6	5811.4 µg/L	5811.4 ppb	10:22:01
1	Si 251.611†	33391.1	33525.7	2715.7 µg/L	2715.7 ppb	10:22:01
1	Sn 189.927†	991.4	980.3	555.15 µg/L	555.15 ppb	10:22:22
1	Ti 334.940†	220037.2	222081.1	536.51 µg/L	536.51 ppb	10:21:56
1	Tl 190.801†	295.9	324.1	544.40 µg/L	544.40 ppb	10:22:22
1	U 409.014†	5555.8	5811.4	539.11 µg/L	539.11 ppb	10:22:01
1	V 292.402†	43824.2	44486.7	541.53 µg/L	541.53 ppb	10:22:01
1	Zn 213.857†	19337.1	18946.3	528.83 µg/L	528.83 ppb	10:22:01
2	Sc RADIAL	78333.6	78333.6	99.8 %		10:20:58
2	Al 396.153Radial†	7810.8	7854.9	5076.4 µg/L	5076.4 ppb	10:20:58
2	Ca 317.933Radial†	7147.7	6913.9	4981.8 µg/L	4981.8 ppb	10:20:58
2	Fe 238.204 Radial†	403.9	388.3	5153.2 µg/L	5153.2 ppb	10:21:18
2	K 766.490 Radial†	8520.9	8138.2	5134.4 µg/L	5134.4 ppb	10:20:58
2	Mg 279.077 IEC†	513.8	506.6	5203.0 µg/L	5203.0 ppb	10:21:18
2	Na 589.592 Radial†	37885.2	37402.5	9957.8 µg/L	9957.8 ppb	10:20:58
2	Sr 421.552†	86075.4	85602.7	512.07 µg/L	512.07 ppb	10:20:58
2	Sc 361.383	1957342.3	1957342.3	99.033 %		10:22:28
2	Y 371.029	1232587.7	1232587.7	98.677 %		10:22:28
2	Ag 328.068†	58420.7	59083.7	537.16 µg/L	537.16 ppb	10:22:34
2	As 188.979†	245.7	250.9	545.79 µg/L	545.79 ppb	10:22:55
2	B 249.677†	11168.1	10907.2	514.81 µg/L	514.81 ppb	10:22:34
2	Ba 233.527†	18768.0	18975.3	531.00 µg/L	531.00 ppb	10:22:34
2	Be 313.107†	775786.6	779528.0	524.29 µg/L	524.29 ppb	10:22:28
2	Cd 226.502†	18374.6	18679.3	529.20 µg/L	529.20 ppb	10:22:34
2	Co 228.616†	9856.9	10002.5	531.48 µg/L	531.48 ppb	10:22:34
2	Cr 267.716†	23615.7	23948.5	536.94 µg/L	536.94 ppb	10:22:34
2	Cu 324.752†	76319.2	73164.4	537.18 µg/L	537.18 ppb	10:22:34
2	Mn 257.610†	146287.7	147864.0	524.59 µg/L	524.59 ppb	10:22:34
2	Mo 202.031†	4399.3	4429.6	536.83 µg/L	536.83 ppb	10:22:55
2	Ni 231.604†	9051.7	8808.7	532.78 µg/L	532.78 ppb	10:22:34
2	P 214.914†	1388.5	1182.2	2673.3 µg/L	2673.3 ppb	10:22:55
2	Pb 220.353†	1996.2	1954.6	548.48 µg/L	548.48 ppb	10:22:55

2	S 181.975 Axial†	217.7	196.6	1093.3 µg/L	1093.3 ppb	10:22:55
2	Sb 206.836†	530.6	511.8	543.59 µg/L	543.59 ppb	10:22:55
2	Se 196.026†	368.8	364.4	567.21 µg/L	567.21 ppb	10:22:55
2	SiO2†	30587.1	28496.3	5818.3 µg/L	5818.3 ppb	10:22:34
2	Si 251.611†	33517.3	33562.2	2718.7 µg/L	2718.7 ppb	10:22:34
2	Sn 189.927†	996.2	982.5	556.38 µg/L	556.38 ppb	10:22:55
2	Ti 334.940†	218386.1	219814.7	531.03 µg/L	531.03 ppb	10:22:28
2	Tl 190.801†	300.0	327.4	549.91 µg/L	549.91 ppb	10:22:55
2	U 409.014†	5462.5	5702.1	528.97 µg/L	528.97 ppb	10:22:34
2	V 292.402†	43940.7	44485.1	541.46 µg/L	541.46 ppb	10:22:34
2	Zn 213.857†	19428.8	18986.2	529.95 µg/L	529.95 ppb	10:22:34
3	Sc RADIAL	77020.8	77020.8	98.1 %		10:21:24
3	Al 396.153Radial†	7760.8	7937.3	5131.4 µg/L	5131.4 ppb	10:21:24
3	Ca 317.933Radial†	7083.3	6970.3	5022.4 µg/L	5022.4 ppb	10:21:24
3	Fe 238.204 Radial†	401.9	393.1	5216.4 µg/L	5216.4 ppb	10:21:44
3	K 766.490 Radial†	8549.0	8312.3	5244.3 µg/L	5244.3 ppb	10:21:24
3	Mg 279.077 IEC†	512.4	514.0	5277.2 µg/L	5277.2 ppb	10:21:44
3	Na 589.592 Radial†	37851.8	38015.4	10121 µg/L	10121 ppb	10:21:24
3	Sr 421.552†	85717.3	86707.8	518.68 µg/L	518.68 ppb	10:21:24
3	Sc 361.383	1941030.9	1941030.9	98.208 %		10:23:01
3	Y 371.029	1221920.3	1221920.3	97.823 %		10:23:01
3	Ag 328.068†	56271.3	57390.9	521.63 µg/L	521.63 ppb	10:23:07
3	As 188.979†	212.3	218.9	476.25 µg/L	476.25 ppb	10:23:27
3	B 249.677†	10664.4	10489.1	494.90 µg/L	494.90 ppb	10:23:07
3	Ba 233.527†	17572.0	17916.6	501.36 µg/L	501.36 ppb	10:23:07
3	Be 313.107†	742090.2	751799.5	505.64 µg/L	505.64 ppb	10:23:01
3	Cd 226.502†	17125.0	17562.8	497.52 µg/L	497.52 ppb	10:23:07
3	Co 228.616†	9148.1	9364.4	497.50 µg/L	497.50 ppb	10:23:07
3	Cr 267.716†	21376.6	21868.9	490.32 µg/L	490.32 ppb	10:23:07
3	Cu 324.752†	71168.1	68567.0	503.48 µg/L	503.48 ppb	10:23:07
3	Mn 257.610†	135284.7	137901.5	489.28 µg/L	489.28 ppb	10:23:07
3	Mo 202.031†	3723.7	3779.1	458.02 µg/L	458.02 ppb	10:23:27
3	Ni 231.604†	8383.7	8205.3	496.29 µg/L	496.29 ppb	10:23:07
3	P 214.914†	1224.3	1026.8	2317.4 µg/L	2317.4 ppb	10:23:27
3	Pb 220.353†	1737.0	1707.6	479.05 µg/L	479.05 ppb	10:23:27
3	S 181.975 Axial†	194.4	174.8	971.64 µg/L	971.64 ppb	10:23:27
3	Sb 206.836†	458.3	442.7	469.70 µg/L	469.70 ppb	10:23:27
3	Se 196.026†	318.7	316.5	495.45 µg/L	495.45 ppb	10:23:27
3	SiO2†	29084.9	27226.3	5559.0 µg/L	5559.0 ppb	10:23:07
3	Si 251.611†	31730.1	32026.7	2594.3 µg/L	2594.3 ppb	10:23:07
3	Sn 189.927†	828.1	819.7	464.67 µg/L	464.67 ppb	10:23:27
3	Ti 334.940†	208122.8	211217.2	510.24 µg/L	510.24 ppb	10:23:01
3	Tl 190.801†	264.6	293.9	493.87 µg/L	493.87 ppb	10:23:27
3	U 409.014†	5091.4	5370.5	498.14 µg/L	498.14 ppb	10:23:07
3	V 292.402†	40477.7	41331.7	502.78 µg/L	502.78 ppb	10:23:07
3	Zn 213.857†	18068.3	17765.7	495.85 µg/L	495.85 ppb	10:23:07

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1950150.2	98.669 %	0.4212			0.43%
Sc RADIAL	77482.1	98.7 %	0.94			0.95%
Y 371.029	1228013.5	98.311 %	0.4398			0.45%
Ag 328.068†	58518.1	531.97 µg/L	8.955	531.97 ppb	8.955	1.68%
QC value within limits for Ag 328.068 Recovery = 106.39%						
Al 396.153Radial†	7909.7	5112.3 µg/L	31.17	5112.3 ppb	31.17	0.61%
QC value within limits for Al 396.153Radial Recovery = 102.25%						
As 188.979†	241.0	524.37 µg/L	41.758	524.37 ppb	41.758	7.96%
QC value within limits for As 188.979 Recovery = 104.87%						
B 249.677†	10760.8	507.83 µg/L	11.207	507.83 ppb	11.207	2.21%
QC value within limits for B 249.677 Recovery = 101.57%						
Ba 233.527†	18609.8	520.77 µg/L	16.817	520.77 ppb	16.817	3.23%
QC value within limits for Ba 233.527 Recovery = 104.15%						
Be 313.107†	772891.8	519.83 µg/L	12.563	519.83 ppb	12.563	2.42%
QC value within limits for Be 313.107 Recovery = 103.97%						
Ca 317.933Radial†	6952.0	5009.2 µg/L	23.74	5009.2 ppb	23.74	0.47%
QC value within limits for Ca 317.933Radial Recovery = 100.18%						
Cd 226.502†	18307.2	518.64 µg/L	18.288	518.64 ppb	18.288	3.53%
QC value within limits for Cd 226.502 Recovery = 103.73%						
Co 228.616†	9783.3	519.81 µg/L	19.322	519.81 ppb	19.322	3.72%

QC value within limits for Co 228.616 Recovery = 103.96%							
Cr 267.716†	23246.4	521.20 µg/L	26.746	521.20 ppb	26.746	5.13%	
QC value within limits for Cr 267.716 Recovery = 104.24%							
Cu 324.752†	71609.4	525.79 µg/L	19.319	525.79 ppb	19.319	3.67%	
QC value within limits for Cu 324.752 Recovery = 105.16%							
Fe 238.204 Radial†	392.1	5202.5 µg/L	44.04	5202.5 ppb	44.04	0.85%	
QC value within limits for Fe 238.204 Radial Recovery = 104.05%							
K 766.490 Radial†	8260.4	5211.5 µg/L	67.03	5211.5 ppb	67.03	1.29%	
QC value within limits for K 766.490 Radial Recovery = 104.23%							
Mg 279.077 IEC†	510.8	5245.1 µg/L	38.07	5245.1 ppb	38.07	0.73%	
QC value within limits for Mg 279.077 IEC Recovery = 104.90%							
Mn 257.610†	144470.6	512.56 µg/L	20.168	512.56 ppb	20.168	3.93%	
QC value within limits for Mn 257.610 Recovery = 102.51%							
Mo 202.031†	4225.2	512.06 µg/L	46.856	512.06 ppb	46.856	9.15%	
QC value within limits for Mo 202.031 Recovery = 102.41%							
Na 589.592 Radial†	37760.3	10053 µg/L	85.0	10053 ppb	85.0	0.85%	
QC value within limits for Na 589.592 Radial Recovery = 100.53%							
Ni 231.604†	8598.8	520.09 µg/L	20.627	520.09 ppb	20.627	3.97%	
QC value within limits for Ni 231.604 Recovery = 104.02%							
P 214.914†	1131.6	2557.3 µg/L	207.80	2557.3 ppb	207.80	8.13%	
QC value within limits for P 214.914 Recovery = 102.29%							
Pb 220.353†	1868.3	524.24 µg/L	39.173	524.24 ppb	39.173	7.47%	
QC value within limits for Pb 220.353 Recovery = 104.85%							
S 181.975 Axial†	190.3	1057.8 µg/L	74.97	1057.8 ppb	74.97	7.09%	
QC value within limits for S 181.975 Axial Recovery = 105.78%							
Sb 206.836†	491.0	521.39 µg/L	44.911	521.39 ppb	44.911	8.61%	
QC value within limits for Sb 206.836 Recovery = 104.28%							
Se 196.026†	347.3	541.63 µg/L	40.069	541.63 ppb	40.069	7.40%	
QC value within limits for Se 196.026 Recovery = 108.33%							
SiO2†	28061.8	5729.5 µg/L	147.77	5729.5 ppb	147.77	2.58%	
QC value within limits for SiO2 Recovery = 107.14%							
Si 251.611†	33038.2	2676.2 µg/L	70.97	2676.2 ppb	70.97	2.65%	
QC value within limits for Si 251.611 Recovery = 107.05%							
Sn 189.927†	927.5	525.40 µg/L	52.598	525.40 ppb	52.598	10.01%	
QC value within limits for Sn 189.927 Recovery = 105.08%							
Sr 421.552†	86297.2	516.22 µg/L	3.618	516.22 ppb	3.618	0.70%	
QC value within limits for Sr 421.552 Recovery = 103.24%							
Ti 334.940†	217704.3	525.93 µg/L	13.856	525.93 ppb	13.856	2.63%	
QC value within limits for Ti 334.940 Recovery = 105.19%							
Tl 190.801†	315.2	529.39 µg/L	30.888	529.39 ppb	30.888	5.83%	
QC value within limits for Tl 190.801 Recovery = 105.88%							
U 409.014†	5628.0	522.08 µg/L	21.338	522.08 ppb	21.338	4.09%	
QC value within limits for U 409.014 Recovery = 104.42%							
V 292.402†	43434.5	528.59 µg/L	22.356	528.59 ppb	22.356	4.23%	
QC value within limits for V 292.402 Recovery = 105.72%							
Zn 213.857†	18566.1	518.21 µg/L	19.372	518.21 ppb	19.372	3.74%	
QC value within limits for Zn 213.857 Recovery = 103.64%							

All analyte(s) passed QC.

Sequence No.: 20

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 10:23:36

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	75015.0	75015.0	95.6 %		10:24:09
1	Al 396.153Radial†	-1.9	27.5	17.813 µg/L	17.813 ppb	10:24:09
1	Ca 317.933Radial†	266.8	31.9	22.989 µg/L	22.989 ppb	10:24:30
1	Fe 238.204 Radial†	19.3	3.8	50.360 µg/L	50.360 ppb	10:24:30
1	K 766.490 Radial†	328.8	-54.7	-34.507 µg/L	-34.507 ppb	10:24:09
1	Mg 279.077 IEC†	12.0	4.4	45.513 µg/L	45.513 ppb	10:24:30
1	Na 589.592 Radial†	389.1	-146.6	-39.036 µg/L	-39.036 ppb	10:24:09
1	Sr 421.552†	654.0	50.2	0.3005 µg/L	0.3005 ppb	10:24:09
1	Sc 361.383	1953221.6	1953221.6	98.825 %		10:25:32
1	Y 371.029	1234699.5	1234699.5	98.846 %		10:25:32
1	Ag 328.068†	-76.1	15.6	0.1452 µg/L	0.1452 ppb	10:25:37
1	As 188.979†	-1.8	0.9	1.9873 µg/L	1.9873 ppb	10:25:58
1	B 249.677†	174.5	-193.3	-9.1820 µg/L	-9.1820 ppb	10:25:37
1	Ba 233.527†	-17.2	6.5	0.1821 µg/L	0.1821 ppb	10:25:58
1	Be 313.107†	3913.7	126.4	0.0848 µg/L	0.0848 ppb	10:25:37
1	Cd 226.502†	-124.6	-0.8	-0.0292 µg/L	-0.0292 ppb	10:25:58
1	Co 228.616†	-44.0	4.8	0.2557 µg/L	0.2557 ppb	10:25:58
1	Cr 267.716†	-57.1	44.3	0.9937 µg/L	0.9937 ppb	10:25:37
1	Cu 324.752†	3848.2	-6.0	-0.0369 µg/L	-0.0369 ppb	10:25:37
1	Mn 257.610†	56.9	205.4	0.7329 µg/L	0.7329 ppb	10:25:58
1	Mo 202.031†	24.0	11.7	1.4135 µg/L	1.4135 ppb	10:25:58
1	Ni 231.604†	328.4	0.9	0.0526 µg/L	0.0526 ppb	10:25:58
1	P 214.914†	210.5	-6.8	-15.742 µg/L	-15.742 ppb	10:25:58
1	Pb 220.353†	63.8	3.4	0.9684 µg/L	0.9684 ppb	10:25:58
1	S 181.975 Axial†	20.7	-2.2	-12.229 µg/L	-12.229 ppb	10:25:58
1	Sb 206.836†	25.9	2.2	2.2852 µg/L	2.2852 ppb	10:25:58
1	Se 196.026†	5.1	-2.7	-3.9327 µg/L	-3.9327 ppb	10:25:58
1	SiO2†	2406.4	45.6	9.3147 µg/L	9.3147 ppb	10:25:37
1	Si 251.611†	384.1	106.3	8.6069 µg/L	8.6069 ppb	10:25:58
1	Sn 189.927†	20.9	-2.3	-1.2650 µg/L	-1.2650 ppb	10:25:58
1	Ti 334.940†	997.5	305.5	0.7352 µg/L	0.7352 ppb	10:25:37
1	Tl 190.801†	-18.3	6.0	9.9321 µg/L	9.9321 ppb	10:25:58
1	U 409.014†	-291.0	-108.3	-10.071 µg/L	-10.071 ppb	10:25:37
1	V 292.402†	-94.9	19.3	0.2380 µg/L	0.2380 ppb	10:25:37
1	Zn 213.857†	654.0	29.5	0.8251 µg/L	0.8251 ppb	10:25:58
2	Sc RADIAL	75306.2	75306.2	96.0 %		10:24:35
2	Al 396.153Radial†	1.4	31.0	20.039 µg/L	20.039 ppb	10:24:35
2	Ca 317.933Radial†	256.8	20.4	14.719 µg/L	14.719 ppb	10:24:56
2	Fe 238.204 Radial†	18.5	3.0	39.160 µg/L	39.160 ppb	10:24:56
2	K 766.490 Radial†	354.2	-29.5	-18.631 µg/L	-18.631 ppb	10:24:35
2	Mg 279.077 IEC†	7.2	-0.7	-6.7510 µg/L	-6.7510 ppb	10:24:56
2	Na 589.592 Radial†	372.9	-165.1	-43.955 µg/L	-43.955 ppb	10:24:35
2	Sr 421.552†	663.9	57.9	0.3463 µg/L	0.3463 ppb	10:24:35
2	Sc 361.383	1949311.6	1949311.6	98.627 %		10:26:04
2	Y 371.029	1231487.7	1231487.7	98.589 %		10:26:04
2	Ag 328.068†	-61.3	30.4	0.2791 µg/L	0.2791 ppb	10:26:09
2	As 188.979†	-2.0	0.7	1.4560 µg/L	1.4560 ppb	10:26:30
2	B 249.677†	196.9	-170.3	-8.0857 µg/L	-8.0857 ppb	10:26:09
2	Ba 233.527†	-18.4	5.3	0.1483 µg/L	0.1483 ppb	10:26:30
2	Be 313.107†	3990.5	212.2	0.1426 µg/L	0.1426 ppb	10:26:09
2	Cd 226.502†	-117.2	6.5	0.1797 µg/L	0.1797 ppb	10:26:30
2	Co 228.616†	-43.5	5.2	0.2765 µg/L	0.2765 ppb	10:26:30
2	Cr 267.716†	-52.1	49.4	1.1064 µg/L	1.1064 ppb	10:26:09
2	Cu 324.752†	3816.2	-30.6	-0.2188 µg/L	-0.2188 ppb	10:26:09
2	Mn 257.610†	62.0	210.7	0.7524 µg/L	0.7524 ppb	10:26:30
2	Mo 202.031†	19.0	6.7	0.8119 µg/L	0.8119 ppb	10:26:30
2	Ni 231.604†	332.8	6.0	0.3656 µg/L	0.3656 ppb	10:26:30
2	P 214.914†	213.7	-3.2	-7.3184 µg/L	-7.3184 ppb	10:26:30
2	Pb 220.353†	52.6	-7.9	-2.2084 µg/L	-2.2084 ppb	10:26:30

2	S 181.975 Axial†	27.5	4.8	26.599 µg/L	26.599 ppb	10:26:30
2	Sb 206.836†	26.9	3.2	3.4369 µg/L	3.4369 ppb	10:26:30
2	Se 196.026†	13.1	5.3	8.1916 µg/L	8.1916 ppb	10:26:30
2	SiO2†	2423.0	67.3	13.749 µg/L	13.749 ppb	10:26:09
2	Si 251.611†	385.9	108.8	8.8156 µg/L	8.8156 ppb	10:26:30
2	Sn 189.927†	20.1	-3.0	-1.7111 µg/L	-1.7111 ppb	10:26:30
2	Ti 334.940†	968.9	278.6	0.6741 µg/L	0.6741 ppb	10:26:09
2	Tl 190.801†	-21.5	2.7	4.4728 µg/L	4.4728 ppb	10:26:30
2	U 409.014†	-167.3	16.6	1.5386 µg/L	1.5386 ppb	10:26:09
2	V 292.402†	-91.2	22.9	0.2880 µg/L	0.2880 ppb	10:26:09
2	Zn 213.857†	651.1	27.9	0.7808 µg/L	0.7808 ppb	10:26:30
3	Sc RADIAL	74766.8	74766.8	95.3 %		10:25:01
3	Al 396.153Radial†	16.9	47.2	30.559 µg/L	30.559 ppb	10:25:01
3	Ca 317.933Radial†	260.3	26.1	18.806 µg/L	18.806 ppb	10:25:22
3	Fe 238.204 Radial†	20.5	5.2	68.435 µg/L	68.435 ppb	10:25:22
3	K 766.490 Radial†	434.2	57.1	36.029 µg/L	36.029 ppb	10:25:01
3	Mg 279.077 IEC†	12.4	4.8	49.429 µg/L	49.429 ppb	10:25:22
3	Na 589.592 Radial†	345.9	-190.6	-50.748 µg/L	-50.748 ppb	10:25:01
3	Sr 421.552†	644.0	42.0	0.2512 µg/L	0.2512 ppb	10:25:01
3	Sc 361.383	1955986.0	1955986.0	98.964 %		10:26:36
3	Y 371.029	1236621.5	1236621.5	99.000 %		10:26:36
3	Ag 328.068†	-56.8	35.2	0.3216 µg/L	0.3216 ppb	10:26:42
3	As 188.979†	0.8	3.5	7.6575 µg/L	7.6575 ppb	10:27:02
3	B 249.677†	185.0	-183.0	-8.7024 µg/L	-8.7024 ppb	10:26:42
3	Ba 233.527†	-19.7	4.0	0.1126 µg/L	0.1126 ppb	10:27:02
3	Be 313.107†	3994.4	202.4	0.1360 µg/L	0.1360 ppb	10:26:42
3	Cd 226.502†	-125.0	-1.0	-0.0372 µg/L	-0.0372 ppb	10:27:02
3	Co 228.616†	-34.8	14.1	0.7513 µg/L	0.7513 ppb	10:27:02
3	Cr 267.716†	-80.4	20.9	0.4683 µg/L	0.4683 ppb	10:26:42
3	Cu 324.752†	3794.8	-65.4	-0.4702 µg/L	-0.4702 ppb	10:26:42
3	Mn 257.610†	-7.8	139.9	0.5032 µg/L	0.5032 ppb	10:27:02
3	Mo 202.031†	21.3	8.9	1.0823 µg/L	1.0823 ppb	10:27:02
3	Ni 231.604†	326.0	-2.0	-0.1225 µg/L	-0.1225 ppb	10:27:02
3	P 214.914†	219.1	1.6	3.6891 µg/L	3.6891 ppb	10:27:02
3	Pb 220.353†	53.8	-6.8	-1.8884 µg/L	-1.8884 ppb	10:27:02
3	S 181.975 Axial†	23.5	0.6	3.3783 µg/L	3.3783 ppb	10:27:02
3	Sb 206.836†	27.4	3.7	3.8730 µg/L	3.8730 ppb	10:27:02
3	Se 196.026†	8.4	0.5	1.0337 µg/L	1.0337 ppb	10:27:02
3	SiO2†	2384.5	20.1	4.1023 µg/L	4.1023 ppb	10:26:42
3	Si 251.611†	353.4	74.7	6.0520 µg/L	6.0520 ppb	10:27:02
3	Sn 189.927†	28.0	4.8	2.7514 µg/L	2.7514 ppb	10:27:02
3	Ti 334.940†	892.0	197.5	0.4738 µg/L	0.4738 ppb	10:26:42
3	Tl 190.801†	-21.9	2.4	3.9788 µg/L	3.9788 ppb	10:27:02
3	U 409.014†	-323.4	-140.6	-13.077 µg/L	-13.077 ppb	10:26:42
3	V 292.402†	-114.8	-0.7	-0.0089 µg/L	-0.0089 ppb	10:26:42
3	Zn 213.857†	653.7	28.2	0.7890 µg/L	0.7890 ppb	10:27:02

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1952839.7	98.805 %	0.1697			0.17%
Sc RADIAL	75029.3	95.6 %	0.34			0.36%
Y 371.029	1234269.6	98.812 %	0.2076			0.21%
Ag 328.068†	27.1	0.2486 µg/L	0.09208	0.2486 ppb	0.09208	37.04%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	35.2	22.804 µg/L	6.8082	22.804 ppb	6.8082	29.86%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.7	3.7003 µg/L	3.43738	3.7003 ppb	3.43738	92.90%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-182.2	-8.6567 µg/L	0.54958	-8.6567 ppb	0.54958	6.35%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.3	0.1477 µg/L	0.03478	0.1477 ppb	0.03478	23.55%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	180.4	0.1211 µg/L	0.03163	0.1211 ppb	0.03163	26.11%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	26.1	18.838 µg/L	4.1353	18.838 ppb	4.1353	21.95%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	1.5	0.0377 µg/L	0.12298	0.0377 ppb	0.12298	325.90%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	8.0	0.4278 µg/L	0.28034	0.4278 ppb	0.28034	65.52%

Cr	267.716†	38.2	0.8561 µg/L	0.34058	0.8561 ppb	0.34058	39.78%
Cu	324.752†	-34.0	-0.2420 µg/L	0.21755	-0.2420 ppb	0.21755	89.91%
Fe	238.204 Radial†	4.0	52.652 µg/L	14.7712	52.652 ppb	14.7712	28.05%
K	766.490 Radial†	-9.0	-5.7029 µg/L	37.00217	-5.7029 ppb	37.00217	648.83%
Mg	279.077 IEC†	2.9	29.397 µg/L	31.3665	29.397 ppb	31.3665	106.70%
Mn	257.610†	185.4	0.6628 µg/L	0.13860	0.6628 ppb	0.13860	20.91%
Mo	202.031†	9.1	1.1026 µg/L	0.30132	1.1026 ppb	0.30132	27.33%
Na	589.592 Radial†	-167.4	-44.580 µg/L	5.8806	-44.580 ppb	5.8806	13.19%
Ni	231.604†	1.6	0.0986 µg/L	0.24727	0.0986 ppb	0.24727	250.78%
P	214.914†	-2.8	-6.4572 µg/L	9.74431	-6.4572 ppb	9.74431	150.91%
Pb	220.353†	-3.8	-1.0428 µg/L	1.74908	-1.0428 ppb	1.74908	167.73%
S	181.975 Axial†	1.1	5.9163 µg/L	19.53789	5.9163 ppb	19.53789	330.24%
Sb	206.836†	3.0	3.1984 µg/L	0.82033	3.1984 ppb	0.82033	25.65%
Se	196.026†	1.0	1.7642 µg/L	6.09506	1.7642 ppb	6.09506	345.48%
SiO2†		44.4	9.0554 µg/L	4.82867	9.0554 ppb	4.82867	53.32%
Si	251.611†	96.6	7.8248 µg/L	1.53884	7.8248 ppb	1.53884	19.67%
Sn	189.927†	-0.2	-0.0749 µg/L	2.45776	-0.0749 ppb	2.45776	>999.9%
Sr	421.552†	50.0	0.2993 µg/L	0.04755	0.2993 ppb	0.04755	15.89%
Ti	334.940†	260.5	0.6277 µg/L	0.13672	0.6277 ppb	0.13672	21.78%
Tl	190.801†	3.7	6.1279 µg/L	3.30380	6.1279 ppb	3.30380	53.91%
U	409.014†	-77.4	-7.2033 µg/L	7.71842	-7.2033 ppb	7.71842	107.15%
V	292.402†	13.8	0.1723 µg/L	0.15897	0.1723 ppb	0.15897	92.24%
Zn	213.857†	28.5	0.7983 µg/L	0.02361	0.7983 ppb	0.02361	2.96%

QC value within limits for Co 228.616 Recovery = Not calculated

QC value within limits for Cr 267.716 Recovery = Not calculated

QC value within limits for Cu 324.752 Recovery = Not calculated

QC value within limits for Fe 238.204 Radial Recovery = Not calculated

QC value within limits for K 766.490 Radial Recovery = Not calculated

QC value within limits for Mg 279.077 IEC Recovery = Not calculated

QC value within limits for Mn 257.610 Recovery = Not calculated

QC value within limits for Mo 202.031 Recovery = Not calculated

QC value within limits for Na 589.592 Radial Recovery = Not calculated

QC value within limits for Ni 231.604 Recovery = Not calculated

QC value within limits for P 214.914 Recovery = Not calculated

QC value within limits for Pb 220.353 Recovery = Not calculated

QC value within limits for S 181.975 Axial Recovery = Not calculated

QC value within limits for Sb 206.836 Recovery = Not calculated

QC value within limits for Se 196.026 Recovery = Not calculated

QC value within limits for SiO2 Recovery = Not calculated

QC value within limits for Si 251.611 Recovery = Not calculated

QC value within limits for Sn 189.927 Recovery = Not calculated

QC value within limits for Sr 421.552 Recovery = Not calculated

QC value within limits for Ti 334.940 Recovery = Not calculated

QC value within limits for Tl 190.801 Recovery = Not calculated

QC value within limits for U 409.014 Recovery = Not calculated

QC value within limits for V 292.402 Recovery = Not calculated

QC value within limits for Zn 213.857 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 2

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 10:46:42

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	77187.2	77187.2	98.4 %		10:47:19
1	Al 396.153Radial†	7793.1	7953.2	5140.1 µg/L	5140.1 ppb	10:47:19
1	Ca 317.933Radial†	6976.4	6846.1	4932.9 µg/L	4932.9 ppb	10:47:39
1	Fe 238.204 Radial†	401.1	391.5	5195.5 µg/L	5195.5 ppb	10:47:39
1	K 766.490 Radial†	8552.8	8297.4	5234.9 µg/L	5234.9 ppb	10:47:19
1	Mg 279.077 IEC†	515.8	516.3	5302.2 µg/L	5302.2 ppb	10:47:39
1	Na 589.592 Radial†	37818.4	37898.4	10090 µg/L	10090 ppb	10:47:19
1	Sr 421.552†	85822.4	86626.4	518.19 µg/L	518.19 ppb	10:47:19
1	Sc 361.383	1959443.1	1959443.1	99.139 %		10:48:42
1	Y 371.029	1234949.1	1234949.1	98.866 %		10:48:42
1	Ag 328.068†	58663.3	59265.2	538.81 µg/L	538.81 ppb	10:48:48
1	As 188.979†	240.2	245.0	533.12 µg/L	533.12 ppb	10:49:08
1	B 249.677†	11281.2	11009.2	519.62 µg/L	519.62 ppb	10:48:48
1	Ba 233.527†	18782.0	18969.0	530.83 µg/L	530.83 ppb	10:48:48
1	Be 313.107†	772768.0	775643.3	521.68 µg/L	521.68 ppb	10:48:42
1	Cd 226.502†	18385.0	18669.9	528.93 µg/L	528.93 ppb	10:48:48
1	Co 228.616†	9869.5	10004.5	531.58 µg/L	531.58 ppb	10:48:48
1	Cr 267.716†	23668.3	23975.9	537.56 µg/L	537.56 ppb	10:48:48
1	Cu 324.752†	76618.8	73384.0	538.80 µg/L	538.80 ppb	10:48:48
1	Mn 257.610†	146510.8	147930.6	524.82 µg/L	524.82 ppb	10:48:48
1	Mo 202.031†	4356.7	4381.9	531.05 µg/L	531.05 ppb	10:49:08
1	Ni 231.604†	9048.4	8795.6	531.99 µg/L	531.99 ppb	10:48:48
1	P 214.914†	1357.9	1149.9	2598.3 µg/L	2598.3 ppb	10:49:08
1	Pb 220.353†	1960.0	1915.9	537.61 µg/L	537.61 ppb	10:49:08
1	S 181.975 Axial†	213.2	191.9	1067.0 µg/L	1067.0 ppb	10:49:08
1	Sb 206.836†	522.9	503.4	534.63 µg/L	534.63 ppb	10:49:08
1	Se 196.026†	355.0	350.2	545.88 µg/L	545.88 ppb	10:49:08
1	SiO2†	30540.3	28416.1	5801.9 µg/L	5801.9 ppb	10:48:48
1	Si 251.611†	33419.9	33427.6	2707.8 µg/L	2707.8 ppb	10:48:48
1	Sn 189.927†	974.5	959.5	543.40 µg/L	543.40 ppb	10:49:08
1	Ti 334.940†	218107.4	219297.1	529.77 µg/L	529.77 ppb	10:48:42
1	Tl 190.801†	295.0	322.1	540.96 µg/L	540.96 ppb	10:49:08
1	U 409.014†	5491.8	5725.7	531.16 µg/L	531.16 ppb	10:48:48
1	V 292.402†	44089.9	44588.0	542.66 µg/L	542.66 ppb	10:48:48
1	Zn 213.857†	19516.0	19053.2	531.82 µg/L	531.82 ppb	10:48:48
2	Sc RADIAL	76862.3	76862.3	97.9 %		10:47:45
2	Al 396.153Radial†	7684.4	7875.7	5089.9 µg/L	5089.9 ppb	10:47:45
2	Ca 317.933Radial†	6935.2	6834.0	4924.2 µg/L	4924.2 ppb	10:48:05
2	Fe 238.204 Radial†	399.1	391.1	5190.4 µg/L	5190.4 ppb	10:48:05
2	K 766.490 Radial†	8521.3	8302.0	5237.7 µg/L	5237.7 ppb	10:47:45
2	Mg 279.077 IEC†	509.0	511.6	5253.4 µg/L	5253.4 ppb	10:48:05
2	Na 589.592 Radial†	37574.3	37811.7	10067 µg/L	10067 ppb	10:47:45
2	Sr 421.552†	85032.3	86188.5	515.57 µg/L	515.57 ppb	10:47:45
2	Sc 361.383	1955069.4	1955069.4	98.918 %		10:49:15
2	Y 371.029	1231601.4	1231601.4	98.598 %		10:49:15
2	Ag 328.068†	57843.2	58568.5	532.48 µg/L	532.48 ppb	10:49:21
2	As 188.979†	236.5	241.8	526.02 µg/L	526.02 ppb	10:49:41
2	B 249.677†	11068.0	10819.1	510.61 µg/L	510.61 ppb	10:49:21
2	Ba 233.527†	18553.7	18780.6	525.55 µg/L	525.55 ppb	10:49:21
2	Be 313.107†	776368.4	781026.8	525.30 µg/L	525.30 ppb	10:49:15
2	Cd 226.502†	18127.2	18450.8	522.71 µg/L	522.71 ppb	10:49:21
2	Co 228.616†	9761.4	9917.5	526.95 µg/L	526.95 ppb	10:49:21
2	Cr 267.716†	23356.3	23713.9	531.68 µg/L	531.68 ppb	10:49:21
2	Cu 324.752†	75679.8	72607.7	533.11 µg/L	533.11 ppb	10:49:21
2	Mn 257.610†	144505.0	146233.5	518.81 µg/L	518.81 ppb	10:49:21
2	Mo 202.031†	4353.0	4388.0	531.79 µg/L	531.79 ppb	10:49:41
2	Ni 231.604†	8930.4	8696.7	526.01 µg/L	526.01 ppb	10:49:21
2	P 214.914†	1356.4	1151.4	2602.5 µg/L	2602.5 ppb	10:49:41
2	Pb 220.353†	1952.7	1912.9	536.80 µg/L	536.80 ppb	10:49:41

2	S 181.975 Axial†	213.8	193.0	1073.2 µg/L	1073.2 ppb	10:49:41
2	Sb 206.836†	521.2	502.9	534.16 µg/L	534.16 ppb	10:49:41
2	Se 196.026†	348.7	344.6	537.48 µg/L	537.48 ppb	10:49:41
2	SiO2†	30194.2	28135.1	5744.5 µg/L	5744.5 ppb	10:49:21
2	Si 251.611†	33052.5	33131.6	2683.8 µg/L	2683.8 ppb	10:49:21
2	Sn 189.927†	983.6	970.9	549.85 µg/L	549.85 ppb	10:49:41
2	Ti 334.940†	218851.7	220541.7	532.78 µg/L	532.78 ppb	10:49:15
2	Tl 190.801†	292.5	320.2	537.87 µg/L	537.87 ppb	10:49:41
2	U 409.014†	5392.5	5637.7	522.99 µg/L	522.99 ppb	10:49:21
2	V 292.402†	43460.7	44051.4	536.19 µg/L	536.19 ppb	10:49:21
2	Zn 213.857†	19198.1	18775.8	524.07 µg/L	524.07 ppb	10:49:21
3	Sc RADIAL	77014.4	77014.4	98.1 %		10:48:10
3	Al 396.153Radial†	7722.6	7899.1	5106.8 µg/L	5106.8 ppb	10:48:10
3	Ca 317.933Radial†	6995.8	6881.7	4958.6 µg/L	4958.6 ppb	10:48:31
3	Fe 238.204 Radial†	398.3	389.6	5168.7 µg/L	5168.7 ppb	10:48:31
3	K 766.490 Radial†	8524.6	8288.2	5229.1 µg/L	5229.1 ppb	10:48:10
3	Mg 279.077 IEC†	512.1	513.7	5273.8 µg/L	5273.8 ppb	10:48:31
3	Na 589.592 Radial†	37546.1	37707.2	10039 µg/L	10039 ppb	10:48:10
3	Sr 421.552†	85057.3	86042.4	514.70 µg/L	514.70 ppb	10:48:10
3	Sc 361.383	1952862.5	1952862.5	98.806 %		10:49:48
3	Y 371.029	1230319.7	1230319.7	98.496 %		10:49:48
3	Ag 328.068†	55678.4	56443.7	513.02 µg/L	513.02 ppb	10:49:53
3	As 188.979†	205.9	211.1	459.27 µg/L	459.27 ppb	10:50:14
3	B 249.677†	10591.0	10349.0	488.28 µg/L	488.28 ppb	10:49:53
3	Ba 233.527†	17332.5	17565.8	491.54 µg/L	491.54 ppb	10:49:53
3	Be 313.107†	736813.5	741881.0	498.97 µg/L	498.97 ppb	10:49:48
3	Cd 226.502†	16867.5	17196.6	487.14 µg/L	487.14 ppb	10:49:53
3	Co 228.616†	9011.3	9169.5	487.14 µg/L	487.14 ppb	10:49:53
3	Cr 267.716†	21083.4	21440.2	480.71 µg/L	480.71 ppb	10:49:53
3	Cu 324.752†	70314.4	67263.9	493.92 µg/L	493.92 ppb	10:49:53
3	Mn 257.610†	133480.1	135240.5	479.84 µg/L	479.84 ppb	10:49:53
3	Mo 202.031†	3679.0	3710.8	449.75 µg/L	449.75 ppb	10:50:14
3	Ni 231.604†	8278.6	8047.2	486.73 µg/L	486.73 ppb	10:49:53
3	P 214.914†	1212.6	1007.4	2273.5 µg/L	2273.5 ppb	10:50:14
3	Pb 220.353†	1703.4	1662.8	466.51 µg/L	466.51 ppb	10:50:14
3	S 181.975 Axial†	189.8	168.9	939.16 µg/L	939.16 ppb	10:50:14
3	Sb 206.836†	458.6	440.1	467.00 µg/L	467.00 ppb	10:50:14
3	Se 196.026†	311.3	307.2	481.15 µg/L	481.15 ppb	10:50:14
3	SiO2†	28622.4	26578.8	5426.8 µg/L	5426.8 ppb	10:49:53
3	Si 251.611†	31165.6	31259.7	2532.2 µg/L	2532.2 ppb	10:49:53
3	Sn 189.927†	821.4	807.8	457.93 µg/L	457.93 ppb	10:50:14
3	Ti 334.940†	206961.7	208758.1	504.30 µg/L	504.30 ppb	10:49:48
3	Tl 190.801†	260.7	288.4	484.56 µg/L	484.56 ppb	10:50:14
3	U 409.014†	4928.9	5174.7	479.95 µg/L	479.95 ppb	10:49:53
3	V 292.402†	39966.1	40564.3	493.44 µg/L	493.44 ppb	10:49:53
3	Zn 213.857†	17902.6	17486.6	488.06 µg/L	488.06 ppb	10:49:53

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1955791.7	98.955 %	0.1695			0.17%
Sc RADIAL	77021.3	98.1 %	0.21			0.21%
Y 371.029	1232290.1	98.653 %	0.1914			0.19%
Ag 328.068†	58092.5	528.10 µg/L	13.440	528.10 ppb	13.440	2.54%
QC value within limits for Ag 328.068 Recovery = 105.62%						
Al 396.153Radial†	7909.3	5112.3 µg/L	25.54	5112.3 ppb	25.54	0.50%
QC value within limits for Al 396.153Radial Recovery = 102.25%						
As 188.979†	232.6	506.14 µg/L	40.741	506.14 ppb	40.741	8.05%
QC value within limits for As 188.979 Recovery = 101.23%						
B 249.677†	10725.8	506.17 µg/L	16.139	506.17 ppb	16.139	3.19%
QC value within limits for B 249.677 Recovery = 101.23%						
Ba 233.527†	18438.5	515.97 µg/L	21.321	515.97 ppb	21.321	4.13%
QC value within limits for Ba 233.527 Recovery = 103.19%						
Be 313.107†	766183.7	515.31 µg/L	14.270	515.31 ppb	14.270	2.77%
QC value within limits for Be 313.107 Recovery = 103.06%						
Ca 317.933Radial†	6854.0	4938.6 µg/L	17.87	4938.6 ppb	17.87	0.36%
QC value within limits for Ca 317.933Radial Recovery = 98.77%						
Cd 226.502†	18105.8	512.93 µg/L	22.546	512.93 ppb	22.546	4.40%
QC value within limits for Cd 226.502 Recovery = 102.59%						
Co 228.616†	9697.2	515.22 µg/L	24.431	515.22 ppb	24.431	4.74%

QC value within limits for Co 228.616 Recovery = 103.04%							
Cr 267.716†	23043.4	516.65 µg/L	31.263	516.65 ppb	31.263	6.05%	
QC value within limits for Cr 267.716 Recovery = 103.33%							
Cu 324.752†	71085.2	521.94 µg/L	24.434	521.94 ppb	24.434	4.68%	
QC value within limits for Cu 324.752 Recovery = 104.39%							
Fe 238.204 Radial†	390.7	5184.9 µg/L	14.24	5184.9 ppb	14.24	0.27%	
QC value within limits for Fe 238.204 Radial Recovery = 103.70%							
K 766.490 Radial†	8295.9	5233.9 µg/L	4.42	5233.9 ppb	4.42	0.08%	
QC value within limits for K 766.490 Radial Recovery = 104.68%							
Mg 279.077 IEC†	513.9	5276.5 µg/L	24.52	5276.5 ppb	24.52	0.46%	
QC value within limits for Mg 279.077 IEC Recovery = 105.53%							
Mn 257.610†	143134.9	507.82 µg/L	24.421	507.82 ppb	24.421	4.81%	
QC value within limits for Mn 257.610 Recovery = 101.56%							
Mo 202.031†	4160.3	504.19 µg/L	47.153	504.19 ppb	47.153	9.35%	
QC value within limits for Mo 202.031 Recovery = 100.84%							
Na 589.592 Radial†	37805.7	10065 µg/L	25.5	10065 ppb	25.5	0.25%	
QC value within limits for Na 589.592 Radial Recovery = 100.65%							
Ni 231.604†	8513.2	514.91 µg/L	24.587	514.91 ppb	24.587	4.77%	
QC value within limits for Ni 231.604 Recovery = 102.98%							
P 214.914†	1102.9	2491.4 µg/L	188.75	2491.4 ppb	188.75	7.58%	
QC value within limits for P 214.914 Recovery = 99.66%							
Pb 220.353†	1830.5	513.64 µg/L	40.816	513.64 ppb	40.816	7.95%	
QC value within limits for Pb 220.353 Recovery = 102.73%							
S 181.975 Axial†	184.6	1026.5 µg/L	75.68	1026.5 ppb	75.68	7.37%	
QC value within limits for S 181.975 Axial Recovery = 102.65%							
Sb 206.836†	482.2	511.93 µg/L	38.911	511.93 ppb	38.911	7.60%	
QC value within limits for Sb 206.836 Recovery = 102.39%							
Se 196.026†	334.0	521.50 µg/L	35.199	521.50 ppb	35.199	6.75%	
QC value within limits for Se 196.026 Recovery = 104.30%							
SiO2†	27710.0	5657.7 µg/L	202.06	5657.7 ppb	202.06	3.57%	
QC value within limits for SiO2 Recovery = 105.80%							
Si 251.611†	32606.3	2641.3 µg/L	95.22	2641.3 ppb	95.22	3.61%	
QC value within limits for Si 251.611 Recovery = 105.65%							
Sn 189.927†	912.7	517.06 µg/L	51.308	517.06 ppb	51.308	9.92%	
QC value within limits for Sn 189.927 Recovery = 103.41%							
Sr 421.552†	86285.8	516.15 µg/L	1.818	516.15 ppb	1.818	0.35%	
QC value within limits for Sr 421.552 Recovery = 103.23%							
Ti 334.940†	216199.0	522.29 µg/L	15.649	522.29 ppb	15.649	3.00%	
QC value within limits for Ti 334.940 Recovery = 104.46%							
Tl 190.801†	310.2	521.13 µg/L	31.708	521.13 ppb	31.708	6.08%	
QC value within limits for Tl 190.801 Recovery = 104.23%							
U 409.014†	5512.7	511.37 µg/L	27.513	511.37 ppb	27.513	5.38%	
QC value within limits for U 409.014 Recovery = 102.27%							
V 292.402†	43067.9	524.10 µg/L	26.750	524.10 ppb	26.750	5.10%	
QC value within limits for V 292.402 Recovery = 104.82%							
Zn 213.857†	18438.6	514.65 µg/L	23.350	514.65 ppb	23.350	4.54%	
QC value within limits for Zn 213.857 Recovery = 102.93%							

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 10:50:24

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	75231.2	75231.2	95.9 %		10:50:56
1	Al 396.153Radial†	-11.2	17.8	11.554 µg/L	11.554 ppb	10:50:56
1	Ca 317.933Radial†	266.9	31.3	22.541 µg/L	22.541 ppb	10:51:17
1	Fe 238.204 Radial†	16.7	1.1	14.367 µg/L	14.367 ppb	10:51:17
1	K 766.490 Radial†	420.6	40.0	25.258 µg/L	25.258 ppb	10:50:56
1	Mg 279.077 IEC†	8.7	1.0	9.8006 µg/L	9.8006 ppb	10:51:17
1	Na 589.592 Radial†	390.2	-146.6	-39.031 µg/L	-39.031 ppb	10:50:56
1	Sr 421.552†	684.6	80.1	0.4792 µg/L	0.4792 ppb	10:50:56
1	Sc 361.383	1945581.1	1945581.1	98.438 %		10:52:18
1	Y 371.029	1229700.5	1229700.5	98.446 %		10:52:18
1	Ag 328.068†	-78.5	12.8	0.1182 µg/L	0.1182 ppb	10:52:24
1	As 188.979†	-1.7	1.0	2.0903 µg/L	2.0903 ppb	10:52:45
1	B 249.677†	223.4	-143.0	-6.7797 µg/L	-6.7797 ppb	10:52:45
1	Ba 233.527†	-23.5	0.1	0.0037 µg/L	0.0037 ppb	10:52:45
1	Be 313.107†	3968.8	198.0	0.1331 µg/L	0.1331 ppb	10:52:24
1	Cd 226.502†	-112.3	11.3	0.3182 µg/L	0.3182 ppb	10:52:45
1	Co 228.616†	-48.2	0.4	0.0205 µg/L	0.0205 ppb	10:52:45
1	Cr 267.716†	-49.6	51.8	1.1610 µg/L	1.1610 ppb	10:52:24
1	Cu 324.752†	3841.7	2.7	0.0218 µg/L	0.0218 ppb	10:52:24
1	Mn 257.610†	-39.0	108.2	0.3851 µg/L	0.3851 ppb	10:52:45
1	Mo 202.031†	13.5	1.1	0.1366 µg/L	0.1366 ppb	10:52:45
1	Ni 231.604†	342.6	16.6	1.0047 µg/L	1.0047 ppb	10:52:45
1	P 214.914†	215.8	-0.7	-1.4841 µg/L	-1.4841 ppb	10:52:45
1	Pb 220.353†	65.5	5.3	1.5112 µg/L	1.5112 ppb	10:52:45
1	S 181.975 Axial†	21.4	-1.4	-7.9165 µg/L	-7.9165 ppb	10:52:45
1	Sb 206.836†	28.4	4.8	5.0830 µg/L	5.0830 ppb	10:52:45
1	Se 196.026†	6.6	-1.3	-1.8741 µg/L	-1.8741 ppb	10:52:45
1	SiO2†	2319.8	-32.8	-6.6877 µg/L	-6.6877 ppb	10:52:24
1	Si 251.611†	303.3	25.7	2.0829 µg/L	2.0829 ppb	10:52:45
1	Sn 189.927†	27.2	4.2	2.3657 µg/L	2.3657 ppb	10:52:45
1	Ti 334.940†	788.5	97.1	0.2344 µg/L	0.2344 ppb	10:52:24
1	Tl 190.801†	-19.5	4.7	7.8674 µg/L	7.8674 ppb	10:52:45
1	U 409.014†	-286.2	-104.6	-9.7227 µg/L	-9.7227 ppb	10:52:24
1	V 292.402†	-96.2	17.6	0.2064 µg/L	0.2064 ppb	10:52:24
1	Zn 213.857†	672.5	50.9	1.4260 µg/L	1.4260 ppb	10:52:45
2	Sc RADIAL	75327.1	75327.1	96.0 %		10:51:22
2	Al 396.153Radial†	-11.4	17.7	11.432 µg/L	11.432 ppb	10:51:22
2	Ca 317.933Radial†	277.4	41.8	30.142 µg/L	30.142 ppb	10:51:42
2	Fe 238.204 Radial†	20.4	4.9	65.402 µg/L	65.402 ppb	10:51:42
2	K 766.490 Radial†	426.6	45.7	28.838 µg/L	28.838 ppb	10:51:22
2	Mg 279.077 IEC†	13.3	5.7	57.941 µg/L	57.941 ppb	10:51:42
2	Na 589.592 Radial†	381.4	-156.3	-41.609 µg/L	-41.609 ppb	10:51:22
2	Sr 421.552†	729.6	126.2	0.7547 µg/L	0.7547 ppb	10:51:22
2	Sc 361.383	1930357.7	1930357.7	97.668 %		10:52:50
2	Y 371.029	1220252.1	1220252.1	97.690 %		10:52:50
2	Ag 328.068†	-94.7	-4.4	-0.0353 µg/L	-0.0353 ppb	10:52:56
2	As 188.979†	-2.6	0.0	0.0602 µg/L	0.0602 ppb	10:53:16
2	B 249.677†	212.4	-152.5	-7.2569 µg/L	-7.2569 ppb	10:53:16
2	Ba 233.527†	-27.9	-4.6	-0.1297 µg/L	-0.1297 ppb	10:53:16
2	Be 313.107†	3898.5	157.8	0.1060 µg/L	0.1060 ppb	10:52:56
2	Cd 226.502†	-124.3	-2.0	-0.0639 µg/L	-0.0639 ppb	10:53:16
2	Co 228.616†	-48.5	-0.4	-0.0206 µg/L	-0.0206 ppb	10:53:16
2	Cr 267.716†	-56.0	44.8	1.0034 µg/L	1.0034 ppb	10:52:56
2	Cu 324.752†	3868.5	61.0	0.4561 µg/L	0.4561 ppb	10:52:56
2	Mn 257.610†	-38.7	108.2	0.3900 µg/L	0.3900 ppb	10:53:16
2	Mo 202.031†	18.7	6.6	0.7974 µg/L	0.7974 ppb	10:53:16
2	Ni 231.604†	330.1	6.6	0.3994 µg/L	0.3994 ppb	10:53:16
2	P 214.914†	218.8	4.1	9.4400 µg/L	9.4400 ppb	10:53:16
2	Pb 220.353†	62.5	2.8	0.7895 µg/L	0.7895 ppb	10:53:16

2	S 181.975 Axial†	27.3	4.9	27.048 µg/L	27.048 ppb	10:53:16
2	Sb 206.836†	26.6	3.2	3.3907 µg/L	3.3907 ppb	10:53:16
2	Se 196.026†	8.4	0.6	1.1883 µg/L	1.1883 ppb	10:53:16
2	SiO2†	2323.1	-10.8	-2.2012 µg/L	-2.2012 ppb	10:52:56
2	Si 251.611†	312.8	37.9	3.0672 µg/L	3.0672 ppb	10:53:16
2	Sn 189.927†	21.0	-2.0	-1.1040 µg/L	-1.1040 ppb	10:53:16
2	Ti 334.940†	822.8	138.6	0.3309 µg/L	0.3309 ppb	10:52:56
2	Tl 190.801†	-21.5	2.5	4.1199 µg/L	4.1199 ppb	10:53:16
2	U 409.014†	-240.2	-59.7	-5.5623 µg/L	-5.5623 ppb	10:52:56
2	V 292.402†	-108.6	4.2	0.0563 µg/L	0.0563 ppb	10:52:56
2	Zn 213.857†	675.9	59.8	1.6716 µg/L	1.6716 ppb	10:53:16
3	Sc RADIAL	75139.4	75139.4	95.7 %		10:51:48
3	Al 396.153Radial†	-18.7	9.9	6.4256 µg/L	6.4256 ppb	10:51:48
3	Ca 317.933Radial†	266.8	31.5	22.665 µg/L	22.665 ppb	10:52:08
3	Fe 238.204 Radial†	18.9	3.4	45.202 µg/L	45.202 ppb	10:52:08
3	K 766.490 Radial†	353.6	-29.4	-18.566 µg/L	-18.566 ppb	10:51:48
3	Mg 279.077 IEC†	8.4	0.6	6.5688 µg/L	6.5688 ppb	10:52:08
3	Na 589.592 Radial†	377.2	-159.7	-42.520 µg/L	-42.520 ppb	10:51:48
3	Sr 421.552†	675.9	71.9	0.4301 µg/L	0.4301 ppb	10:51:48
3	Sc 361.383	1940930.1	1940930.1	98.203 %		10:53:22
3	Y 371.029	1226535.3	1226535.3	98.193 %		10:53:22
3	Ag 328.068†	-125.7	-35.4	-0.3154 µg/L	-0.3154 ppb	10:53:28
3	As 188.979†	3.2	6.0	13.066 µg/L	13.066 ppb	10:53:48
3	B 249.677†	207.0	-159.2	-7.5630 µg/L	-7.5630 ppb	10:53:48
3	Ba 233.527†	-19.9	3.7	0.1050 µg/L	0.1050 ppb	10:53:48
3	Be 313.107†	3949.1	187.6	0.1260 µg/L	0.1260 ppb	10:53:28
3	Cd 226.502†	-117.1	6.0	0.1646 µg/L	0.1646 ppb	10:53:48
3	Co 228.616†	-42.1	6.5	0.3450 µg/L	0.3450 ppb	10:53:48
3	Cr 267.716†	-63.4	37.6	0.8435 µg/L	0.8435 ppb	10:53:28
3	Cu 324.752†	3845.7	16.1	0.1245 µg/L	0.1245 ppb	10:53:28
3	Mn 257.610†	-47.2	99.8	0.3596 µg/L	0.3596 ppb	10:53:48
3	Mo 202.031†	16.9	4.6	0.5602 µg/L	0.5602 ppb	10:53:48
3	Ni 231.604†	318.2	-7.4	-0.4450 µg/L	-0.4450 ppb	10:53:48
3	P 214.914†	213.2	-2.7	-6.3285 µg/L	-6.3285 ppb	10:53:48
3	Pb 220.353†	57.2	-2.9	-0.8102 µg/L	-0.8102 ppb	10:53:48
3	S 181.975 Axial†	17.2	-5.6	-31.179 µg/L	-31.179 ppb	10:53:48
3	Sb 206.836†	22.8	-0.8	-0.8682 µg/L	-0.8682 ppb	10:53:48
3	Se 196.026†	7.1	-0.7	-0.8702 µg/L	-0.8702 ppb	10:53:48
3	SiO2†	2318.6	-28.3	-5.7827 µg/L	-5.7827 ppb	10:53:28
3	Si 251.611†	327.7	51.3	4.1527 µg/L	4.1527 ppb	10:53:48
3	Sn 189.927†	27.8	4.8	2.7165 µg/L	2.7165 ppb	10:53:48
3	Ti 334.940†	864.0	176.0	0.4253 µg/L	0.4253 ppb	10:53:28
3	Tl 190.801†	-19.3	4.9	8.1730 µg/L	8.1730 ppb	10:53:48
3	U 409.014†	-208.2	-25.8	-2.4070 µg/L	-2.4070 ppb	10:53:28
3	V 292.402†	-92.9	20.7	0.2553 µg/L	0.2553 ppb	10:53:28
3	Zn 213.857†	666.8	46.7	1.3119 µg/L	1.3119 ppb	10:53:48

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1938956.3	98.103 %	0.3947			0.40%
Sc RADIAL	75232.6	95.9 %	0.12			0.12%
Y 371.029	1225496.0	98.110 %	0.3850			0.39%
Ag 328.068†	-9.0	-0.0775 µg/L	0.21989	-0.0775 ppb	0.21989	283.78%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	15.2	9.8037 µg/L	2.92610	9.8037 ppb	2.92610	29.85%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.3	5.0722 µg/L	6.99693	5.0722 ppb	6.99693	137.95%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-151.6	-7.1999 µg/L	0.39473	-7.1999 ppb	0.39473	5.48%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.3	-0.0070 µg/L	0.11775	-0.0070 ppb	0.11775	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	181.1	0.1217 µg/L	0.01405	0.1217 ppb	0.01405	11.54%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	34.9	25.116 µg/L	4.3535	25.116 ppb	4.3535	17.33%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.1	0.1397 µg/L	0.19227	0.1397 ppb	0.19227	137.67%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	2.2	0.1150 µg/L	0.20024	0.1150 ppb	0.20024	174.16%

Cr	267.716†	44.7	1.0026 µg/L	0.15872	1.0026 ppb	0.15872	15.83%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	26.6	0.2008 µg/L	0.22697	0.2008 ppb	0.22697	113.03%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	3.1	41.657 µg/L	25.7017	41.657 ppb	25.7017	61.70%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	18.8	11.844 µg/L	26.3964	11.844 ppb	26.3964	222.87%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	2.4	24.770 µg/L	28.7723	24.770 ppb	28.7723	116.16%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	105.4	0.3782 µg/L	0.01632	0.3782 ppb	0.01632	4.32%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	4.1	0.4981 µg/L	0.33476	0.4981 ppb	0.33476	67.21%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-154.2	-41.053 µg/L	1.8096	-41.053 ppb	1.8096	4.41%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	5.3	0.3197 µg/L	0.72810	0.3197 ppb	0.72810	227.76%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	0.2	0.5425 µg/L	8.07723	0.5425 ppb	8.07723	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	1.7	0.4969 µg/L	1.18803	0.4969 ppb	1.18803	239.11%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-0.7	-4.0157 µg/L	29.30903	-4.0157 ppb	29.30903	729.86%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	2.4	2.5352 µg/L	3.06641	2.5352 ppb	3.06641	120.96%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-0.5	-0.5187 µg/L	1.56120	-0.5187 ppb	1.56120	301.01%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		-24.0	-4.8905 µg/L	2.37257	-4.8905 ppb	2.37257	48.51%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	38.3	3.1009 µg/L	1.03533	3.1009 ppb	1.03533	33.39%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	2.3	1.3260 µg/L	2.11181	1.3260 ppb	2.11181	159.26%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	92.7	0.5546 µg/L	0.17494	0.5546 ppb	0.17494	31.54%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	137.2	0.3302 µg/L	0.09544	0.3302 ppb	0.09544	28.91%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	4.0	6.7201 µg/L	2.25705	6.7201 ppb	2.25705	33.59%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-63.4	-5.8973 µg/L	3.66930	-5.8973 ppb	3.66930	62.22%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	14.2	0.1727 µg/L	0.10374	0.1727 ppb	0.10374	60.08%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	52.5	1.4698 µg/L	0.18384	1.4698 ppb	0.18384	12.51%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 11:31:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	76971.1	76971.1	98.1 %		11:31:52
1	Al 396.153Radial†	7811.1	7993.7	5166.1 µg/L	5166.1 ppb	11:31:52
1	Ca 317.933Radial†	7086.9	6978.6	5028.4 µg/L	5028.4 ppb	11:31:52
1	Fe 238.204 Radial†	401.1	392.6	5210.1 µg/L	5210.1 ppb	11:32:12
1	K 766.490 Radial†	8567.9	8337.2	5260.0 µg/L	5260.0 ppb	11:31:52
1	Mg 279.077 IEC†	513.7	515.6	5295.5 µg/L	5295.5 ppb	11:32:12
1	Na 589.592 Radial†	37715.1	37901.0	10091 µg/L	10091 ppb	11:31:52
1	Sr 421.552†	85484.4	86526.7	517.59 µg/L	517.59 ppb	11:31:52
1	Sc 361.383	1937795.6	1937795.6	98.044 %		11:33:16
1	Y 371.029	1220068.3	1220068.3	97.675 %		11:33:16
1	Ag 328.068†	58696.3	59959.9	545.13 µg/L	545.13 ppb	11:33:21
1	As 188.979†	245.2	252.9	550.12 µg/L	550.12 ppb	11:33:42
1	B 249.677†	11183.3	11036.5	520.92 µg/L	520.92 ppb	11:33:21
1	Ba 233.527†	18848.9	19248.9	538.66 µg/L	538.66 ppb	11:33:21
1	Be 313.107†	775384.1	787019.4	529.33 µg/L	529.33 ppb	11:33:16
1	Cd 226.502†	18413.2	18905.9	535.62 µg/L	535.62 ppb	11:33:21
1	Co 228.616†	9870.3	10116.5	537.54 µg/L	537.54 ppb	11:33:21
1	Cr 267.716†	23651.1	24225.1	543.15 µg/L	543.15 ppb	11:33:21
1	Cu 324.752†	76721.0	74351.6	545.90 µg/L	545.90 ppb	11:33:21
1	Mn 257.610†	146912.8	149991.6	532.13 µg/L	532.13 ppb	11:33:16
1	Mo 202.031†	4410.4	4485.8	543.64 µg/L	543.64 ppb	11:33:42
1	Ni 231.604†	9084.6	8934.4	540.39 µg/L	540.39 ppb	11:33:21
1	P 214.914†	1384.6	1192.4	2695.8 µg/L	2695.8 ppb	11:33:42
1	Pb 220.353†	1968.7	1946.8	546.30 µg/L	546.30 ppb	11:33:42
1	S 181.975 Axial†	213.1	194.2	1079.5 µg/L	1079.5 ppb	11:33:42
1	Sb 206.836†	530.8	517.4	549.57 µg/L	549.57 ppb	11:33:42
1	Se 196.026†	356.7	355.9	554.57 µg/L	554.57 ppb	11:33:42
1	SiO2†	30586.2	28807.0	5881.7 µg/L	5881.7 ppb	11:33:21
1	Si 251.611†	33521.0	33907.4	2746.7 µg/L	2746.7 ppb	11:33:21
1	Sn 189.927†	988.7	984.9	557.79 µg/L	557.79 ppb	11:33:42
1	Ti 334.940†	218562.4	222218.9	536.84 µg/L	536.84 ppb	11:33:16
1	Tl 190.801†	300.4	331.0	555.83 µg/L	555.83 ppb	11:33:42
1	U 409.014†	5464.0	5759.2	534.27 µg/L	534.27 ppb	11:33:21
1	V 292.402†	44189.0	45185.8	549.97 µg/L	549.97 ppb	11:33:21
1	Zn 213.857†	19549.8	19307.5	538.92 µg/L	538.92 ppb	11:33:21
2	Sc RADIAL	76409.5	76409.5	97.4 %		11:32:18
2	Al 396.153Radial†	7718.9	7957.6	5142.8 µg/L	5142.8 ppb	11:32:18
2	Ca 317.933Radial†	7075.7	7020.3	5058.4 µg/L	5058.4 ppb	11:32:18
2	Fe 238.204 Radial†	403.5	398.1	5283.3 µg/L	5283.3 ppb	11:32:38
2	K 766.490 Radial†	8571.8	8405.4	5303.0 µg/L	5303.0 ppb	11:32:18
2	Mg 279.077 IEC†	510.1	515.7	5296.4 µg/L	5296.4 ppb	11:32:38
2	Na 589.592 Radial†	37580.6	38045.5	10129 µg/L	10129 ppb	11:32:18
2	Sr 421.552†	85253.8	86930.5	520.01 µg/L	520.01 ppb	11:32:18
2	Sc 361.383	1927407.1	1927407.1	97.518 %		11:33:49
2	Y 371.029	1214105.6	1214105.6	97.198 %		11:33:49
2	Ag 328.068†	58376.6	59954.7	545.08 µg/L	545.08 ppb	11:33:54
2	As 188.979†	242.2	251.1	546.32 µg/L	546.32 ppb	11:34:15
2	B 249.677†	11091.1	11003.4	519.31 µg/L	519.31 ppb	11:33:54
2	Ba 233.527†	18723.5	19223.9	537.96 µg/L	537.96 ppb	11:33:54
2	Be 313.107†	770467.7	786240.4	528.80 µg/L	528.80 ppb	11:33:49
2	Cd 226.502†	18278.0	18868.4	534.55 µg/L	534.55 ppb	11:33:54
2	Co 228.616†	9848.3	10148.2	539.22 µg/L	539.22 ppb	11:33:54
2	Cr 267.716†	23581.2	24283.4	544.45 µg/L	544.45 ppb	11:33:54
2	Cu 324.752†	76131.7	74169.1	544.57 µg/L	544.57 ppb	11:33:54
2	Mn 257.610†	146043.7	149908.0	531.84 µg/L	531.84 ppb	11:33:49
2	Mo 202.031†	4351.5	4449.6	539.26 µg/L	539.26 ppb	11:34:15
2	Ni 231.604†	9051.3	8950.2	541.35 µg/L	541.35 ppb	11:33:54
2	P 214.914†	1372.3	1187.4	2684.3 µg/L	2684.3 ppb	11:34:15
2	Pb 220.353†	1964.9	1953.8	548.23 µg/L	548.23 ppb	11:34:15

2	S 181.975 Axial†	214.4	196.7	1093.5 µg/L	1093.5 ppb	11:34:15
2	Sb 206.836†	519.3	508.5	540.02 µg/L	540.02 ppb	11:34:15
2	Se 196.026†	356.3	357.4	557.19 µg/L	557.19 ppb	11:34:15
2	SiO2†	30415.3	28799.9	5880.3 µg/L	5880.3 ppb	11:33:54
2	Si 251.611†	33325.4	33891.0	2745.3 µg/L	2745.3 ppb	11:33:54
2	Sn 189.927†	978.8	980.2	555.13 µg/L	555.13 ppb	11:34:15
2	Ti 334.940†	216999.7	221817.9	535.87 µg/L	535.87 ppb	11:33:49
2	Tl 190.801†	299.4	331.6	556.82 µg/L	556.82 ppb	11:34:15
2	U 409.014†	5485.0	5810.8	539.05 µg/L	539.05 ppb	11:33:54
2	V 292.402†	43865.2	45096.8	548.88 µg/L	548.88 ppb	11:33:54
2	Zn 213.857†	19437.8	19300.1	538.71 µg/L	538.71 ppb	11:33:54
3	Sc RADIAL	76742.1	76742.1	97.8 %		11:32:44
3	Al 396.153Radial†	7769.4	7974.9	5155.7 µg/L	5155.7 ppb	11:32:44
3	Ca 317.933Radial†	7076.8	6990.0	5036.6 µg/L	5036.6 ppb	11:32:44
3	Fe 238.204 Radial†	401.9	394.6	5236.0 µg/L	5236.0 ppb	11:33:04
3	K 766.490 Radial†	8586.4	8382.2	5288.4 µg/L	5288.4 ppb	11:32:44
3	Mg 279.077 IEC†	513.4	516.9	5306.9 µg/L	5306.9 ppb	11:33:04
3	Na 589.592 Radial†	37652.4	37951.6	10104 µg/L	10104 ppb	11:32:44
3	Sr 421.552†	85507.0	86809.9	519.29 µg/L	519.29 ppb	11:32:44
3	Sc 361.383	1936491.3	1936491.3	97.978 %		11:34:22
3	Y 371.029	1219218.7	1219218.7	97.607 %		11:34:22
3	Ag 328.068†	56015.0	57263.5	520.48 µg/L	520.48 ppb	11:34:28
3	As 188.979†	213.8	220.9	480.74 µg/L	480.74 ppb	11:34:48
3	B 249.677†	10652.0	10501.9	495.49 µg/L	495.49 ppb	11:34:28
3	Ba 233.527†	17500.5	17885.7	500.49 µg/L	500.49 ppb	11:34:28
3	Be 313.107†	738595.5	750004.2	504.43 µg/L	504.43 ppb	11:34:22
3	Cd 226.502†	17091.7	17569.7	497.71 µg/L	497.71 ppb	11:34:28
3	Co 228.616†	9093.1	9330.1	495.68 µg/L	495.68 ppb	11:34:28
3	Cr 267.716†	21253.0	21793.8	488.64 µg/L	488.64 ppb	11:34:28
3	Cu 324.752†	70887.4	68450.3	502.63 µg/L	502.63 ppb	11:34:28
3	Mn 257.610†	140102.7	143141.8	507.86 µg/L	507.86 ppb	11:34:22
3	Mo 202.031†	3707.1	3771.1	457.05 µg/L	457.05 ppb	11:34:48
3	Ni 231.604†	8354.3	8195.3	495.69 µg/L	495.69 ppb	11:34:28
3	P 214.914†	1214.1	1019.3	2300.2 µg/L	2300.2 ppb	11:34:48
3	Pb 220.353†	1724.4	1698.8	476.61 µg/L	476.61 ppb	11:34:48
3	S 181.975 Axial†	192.8	173.6	965.29 µg/L	965.29 ppb	11:34:48
3	Sb 206.836†	464.3	449.9	477.30 µg/L	477.30 ppb	11:34:48
3	Se 196.026†	316.3	314.9	493.04 µg/L	493.04 ppb	11:34:48
3	SiO2†	28840.4	27046.2	5522.2 µg/L	5522.2 ppb	11:34:28
3	Si 251.611†	31474.0	31841.1	2579.3 µg/L	2579.3 ppb	11:34:28
3	Sn 189.927†	828.0	821.6	465.72 µg/L	465.72 ppb	11:34:48
3	Ti 334.940†	207072.5	210642.0	508.85 µg/L	508.85 ppb	11:34:22
3	Tl 190.801†	263.5	293.5	493.13 µg/L	493.13 ppb	11:34:48
3	U 409.014†	4986.2	5275.3	489.29 µg/L	489.29 ppb	11:34:28
3	V 292.402†	40281.5	41228.1	501.51 µg/L	501.51 ppb	11:34:28
3	Zn 213.857†	18011.3	17750.7	495.43 µg/L	495.43 ppb	11:34:28

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1933898.0	97.847 %	0.2863			0.29%
Sc RADIAL	76707.6	97.7 %	0.36			0.37%
Y 371.029	1217797.5	97.493 %	0.2582			0.26%
Ag 328.068†	59059.4	536.89 µg/L	14.218	536.89 ppb	14.218	2.65%
QC value within limits for Ag 328.068 Recovery = 107.38%						
Al 396.153Radial†	7975.4	5154.9 µg/L	11.67	5154.9 ppb	11.67	0.23%
QC value within limits for Al 396.153Radial Recovery = 103.10%						
As 188.979†	241.6	525.73 µg/L	39.005	525.73 ppb	39.005	7.42%
QC value within limits for As 188.979 Recovery = 105.15%						
B 249.677†	10847.3	511.91 µg/L	14.238	511.91 ppb	14.238	2.78%
QC value within limits for B 249.677 Recovery = 102.38%						
Ba 233.527†	18786.2	525.70 µg/L	21.836	525.70 ppb	21.836	4.15%
QC value within limits for Ba 233.527 Recovery = 105.14%						
Be 313.107†	774421.3	520.85 µg/L	14.224	520.85 ppb	14.224	2.73%
QC value within limits for Be 313.107 Recovery = 104.17%						
Ca 317.933Radial†	6996.3	5041.2 µg/L	15.51	5041.2 ppb	15.51	0.31%
QC value within limits for Ca 317.933Radial Recovery = 100.82%						
Cd 226.502†	18448.0	522.63 µg/L	21.583	522.63 ppb	21.583	4.13%
QC value within limits for Cd 226.502 Recovery = 104.53%						
Co 228.616†	9864.9	524.15 µg/L	24.665	524.15 ppb	24.665	4.71%

QC value within limits for Co 228.616 Recovery = 104.83%							
Cr 267.716†	23434.1	525.41 µg/L	31.853	525.41 ppb	31.853	6.06%	
QC value within limits for Cr 267.716 Recovery = 105.08%							
Cu 324.752†	72323.7	531.03 µg/L	24.606	531.03 ppb	24.606	4.63%	
QC value within limits for Cu 324.752 Recovery = 106.21%							
Fe 238.204 Radial†	395.1	5243.1 µg/L	37.10	5243.1 ppb	37.10	0.71%	
QC value within limits for Fe 238.204 Radial Recovery = 104.86%							
K 766.490 Radial†	8374.9	5283.8 µg/L	21.88	5283.8 ppb	21.88	0.41%	
QC value within limits for K 766.490 Radial Recovery = 105.68%							
Mg 279.077 IEC†	516.1	5299.6 µg/L	6.37	5299.6 ppb	6.37	0.12%	
QC value within limits for Mg 279.077 IEC Recovery = 105.99%							
Mn 257.610†	147680.5	523.94 µg/L	13.934	523.94 ppb	13.934	2.66%	
QC value within limits for Mn 257.610 Recovery = 104.79%							
Mo 202.031†	4235.5	513.31 µg/L	48.777	513.31 ppb	48.777	9.50%	
QC value within limits for Mo 202.031 Recovery = 102.66%							
Na 589.592 Radial†	37966.0	10108 µg/L	19.5	10108 ppb	19.5	0.19%	
QC value within limits for Na 589.592 Radial Recovery = 101.08%							
Ni 231.604†	8693.3	525.81 µg/L	26.088	525.81 ppb	26.088	4.96%	
QC value within limits for Ni 231.604 Recovery = 105.16%							
P 214.914†	1133.0	2560.1 µg/L	225.18	2560.1 ppb	225.18	8.80%	
QC value within limits for P 214.914 Recovery = 102.40%							
Pb 220.353†	1866.5	523.72 µg/L	40.805	523.72 ppb	40.805	7.79%	
QC value within limits for Pb 220.353 Recovery = 104.74%							
S 181.975 Axial†	188.2	1046.1 µg/L	70.34	1046.1 ppb	70.34	6.72%	
QC value within limits for S 181.975 Axial Recovery = 104.61%							
Sb 206.836†	491.9	522.30 µg/L	39.258	522.30 ppb	39.258	7.52%	
QC value within limits for Sb 206.836 Recovery = 104.46%							
Se 196.026†	342.7	534.93 µg/L	36.306	534.93 ppb	36.306	6.79%	
QC value within limits for Se 196.026 Recovery = 106.99%							
SiO2†	28217.7	5761.4 µg/L	207.15	5761.4 ppb	207.15	3.60%	
QC value within limits for SiO2 Recovery = 107.74%							
Si 251.611†	33213.1	2690.4 µg/L	96.26	2690.4 ppb	96.26	3.58%	
QC value within limits for Si 251.611 Recovery = 107.62%							
Sn 189.927†	928.9	526.22 µg/L	52.405	526.22 ppb	52.405	9.96%	
QC value within limits for Sn 189.927 Recovery = 105.24%							
Sr 421.552†	86755.7	518.97 µg/L	1.240	518.97 ppb	1.240	0.24%	
QC value within limits for Sr 421.552 Recovery = 103.79%							
Ti 334.940†	218226.3	527.19 µg/L	15.885	527.19 ppb	15.885	3.01%	
QC value within limits for Ti 334.940 Recovery = 105.44%							
Tl 190.801†	318.7	535.26 µg/L	36.487	535.26 ppb	36.487	6.82%	
QC value within limits for Tl 190.801 Recovery = 107.05%							
U 409.014†	5615.1	520.87 µg/L	27.456	520.87 ppb	27.456	5.27%	
QC value within limits for U 409.014 Recovery = 104.17%							
V 292.402†	43836.9	533.45 µg/L	27.668	533.45 ppb	27.668	5.19%	
QC value within limits for V 292.402 Recovery = 106.69%							
Zn 213.857†	18786.1	524.35 µg/L	25.051	524.35 ppb	25.051	4.78%	
QC value within limits for Zn 213.857 Recovery = 104.87%							

All analyte(s) passed QC.

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

Autosampler Location: 8
 Date Collected: 1/29/2010 11:34:57
 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	75715.3	75715.3	96.5 %		11:35:30
1	Al 396.153Radial†	-14.8	14.1	9.1296 µg/L	9.1296 ppb	11:35:30
1	Ca 317.933Radial†	259.1	21.3	15.370 µg/L	15.370 ppb	11:35:50
1	Fe 238.204 Radial†	17.9	2.2	29.035 µg/L	29.035 ppb	11:35:50
1	K 766.490 Radial†	331.1	-55.5	-35.014 µg/L	-35.014 ppb	11:35:30
1	Mg 279.077 IEC†	10.2	2.4	24.773 µg/L	24.773 ppb	11:35:50
1	Na 589.592 Radial†	382.4	-157.3	-41.869 µg/L	-41.869 ppb	11:35:30
1	Sr 421.552†	641.5	30.9	0.1849 µg/L	0.1849 ppb	11:35:30
1	Sc 361.383	1928783.8	1928783.8	97.588 %		11:36:52
1	Y 371.029	1219113.1	1219113.1	97.599 %		11:36:52
1	Ag 328.068†	-44.5	47.0	0.4269 µg/L	0.4269 ppb	11:36:58
1	As 188.979†	-3.0	-0.3	-0.6596 µg/L	-0.6596 ppb	11:37:18
1	B 249.677†	182.0	-183.5	-8.7047 µg/L	-8.7047 ppb	11:37:18
1	Ba 233.527†	-21.6	1.9	0.0522 µg/L	0.0522 ppb	11:37:18
1	Be 313.107†	3892.5	154.9	0.1042 µg/L	0.1042 ppb	11:36:58
1	Cd 226.502†	-128.0	-5.9	-0.1709 µg/L	-0.1709 ppb	11:37:18
1	Co 228.616†	-44.0	4.2	0.2230 µg/L	0.2230 ppb	11:37:18
1	Cr 267.716†	-73.0	27.4	0.6130 µg/L	0.6130 ppb	11:36:58
1	Cu 324.752†	3848.5	43.6	0.3240 µg/L	0.3240 ppb	11:36:58
1	Mn 257.610†	-113.3	31.7	0.1154 µg/L	0.1154 ppb	11:37:18
1	Mo 202.031†	16.7	4.6	0.5546 µg/L	0.5546 ppb	11:37:18
1	Ni 231.604†	327.0	3.7	0.2233 µg/L	0.2233 ppb	11:37:18
1	P 214.914†	220.7	6.3	14.486 µg/L	14.486 ppb	11:37:18
1	Pb 220.353†	57.9	-1.8	-0.5141 µg/L	-0.5141 ppb	11:37:18
1	S 181.975 Axial†	22.4	-0.2	-1.2557 µg/L	-1.2557 ppb	11:37:18
1	Sb 206.836†	22.2	-1.3	-1.3317 µg/L	-1.3317 ppb	11:37:18
1	Se 196.026†	4.4	-3.4	-5.0249 µg/L	-5.0249 ppb	11:37:18
1	SiO2†	2329.4	-2.4	-0.4927 µg/L	-0.4927 ppb	11:36:58
1	Si 251.611†	314.0	39.3	3.1827 µg/L	3.1827 ppb	11:37:18
1	Sn 189.927†	21.9	-1.0	-0.5456 µg/L	-0.5456 ppb	11:37:18
1	Ti 334.940†	747.1	61.7	0.1475 µg/L	0.1475 ppb	11:36:58
1	Tl 190.801†	-21.3	2.7	4.4737 µg/L	4.4737 ppb	11:37:18
1	U 409.014†	-222.9	-42.2	-3.9278 µg/L	-3.9278 ppb	11:36:58
1	V 292.402†	-103.4	9.3	0.1153 µg/L	0.1153 ppb	11:36:58
1	Zn 213.857†	651.6	35.5	0.9930 µg/L	0.9930 ppb	11:37:18
2	Sc RADIAL	75337.3	75337.3	96.0 %		11:35:56
2	Al 396.153Radial†	-13.6	15.4	9.9309 µg/L	9.9309 ppb	11:35:56
2	Ca 317.933Radial†	255.5	19.0	13.691 µg/L	13.691 ppb	11:36:16
2	Fe 238.204 Radial†	17.9	2.3	30.321 µg/L	30.321 ppb	11:36:16
2	K 766.490 Radial†	439.3	58.9	37.182 µg/L	37.182 ppb	11:35:56
2	Mg 279.077 IEC†	8.8	1.0	10.612 µg/L	10.612 ppb	11:36:16
2	Na 589.592 Radial†	352.3	-186.7	-49.698 µg/L	-49.698 ppb	11:35:56
2	Sr 421.552†	599.0	-10.0	-0.0598 µg/L	-0.0598 ppb	11:35:56
2	Sc 361.383	1934472.0	1934472.0	97.876 %		11:37:24
2	Y 371.029	1222662.1	1222662.1	97.883 %		11:37:24
2	Ag 328.068†	-64.6	26.6	0.2447 µg/L	0.2447 ppb	11:37:30
2	As 188.979†	-0.1	2.6	5.7453 µg/L	5.7453 ppb	11:37:51
2	B 249.677†	157.7	-208.9	-9.9068 µg/L	-9.9068 ppb	11:37:51
2	Ba 233.527†	-21.1	2.4	0.0674 µg/L	0.0674 ppb	11:37:51
2	Be 313.107†	3902.4	153.3	0.1031 µg/L	0.1031 ppb	11:37:30
2	Cd 226.502†	-125.1	-2.5	-0.0742 µg/L	-0.0742 ppb	11:37:51
2	Co 228.616†	-39.6	8.9	0.4725 µg/L	0.4725 ppb	11:37:51
2	Cr 267.716†	-38.2	63.1	1.4135 µg/L	1.4135 ppb	11:37:30
2	Cu 324.752†	3805.8	-11.6	-0.0808 µg/L	-0.0808 ppb	11:37:30
2	Mn 257.610†	-90.5	55.4	0.1999 µg/L	0.1999 ppb	11:37:51
2	Mo 202.031†	22.5	10.4	1.2585 µg/L	1.2585 ppb	11:37:51
2	Ni 231.604†	331.7	7.4	0.4504 µg/L	0.4504 ppb	11:37:51
2	P 214.914†	216.3	1.2	2.6825 µg/L	2.6825 ppb	11:37:51
2	Pb 220.353†	58.1	-1.8	-0.5055 µg/L	-0.5055 ppb	11:37:51

2	S 181.975 Axial†	25.5	2.9	16.343 µg/L	16.343 ppb	11:37:51
2	Sb 206.836†	32.3	9.0	9.5190 µg/L	9.5190 ppb	11:37:51
2	Se 196.026†	10.3	2.6	4.0391 µg/L	4.0391 ppb	11:37:51
2	SiO2†	2309.7	-29.6	-6.0342 µg/L	-6.0342 ppb	11:37:30
2	Si 251.611†	315.2	39.6	3.2114 µg/L	3.2114 ppb	11:37:51
2	Sn 189.927†	25.4	2.5	1.3912 µg/L	1.3912 ppb	11:37:51
2	Ti 334.940†	751.0	63.4	0.1526 µg/L	0.1526 ppb	11:37:30
2	Tl 190.801†	8.0	32.7	54.411 µg/L	54.411 ppb	11:37:51
2	U 409.014†	-250.9	-70.2	-6.5266 µg/L	-6.5266 ppb	11:37:30
2	V 292.402†	-83.0	30.6	0.3754 µg/L	0.3754 ppb	11:37:30
2	Zn 213.857†	649.4	31.2	0.8728 µg/L	0.8728 ppb	11:37:51
3	Sc RADIAL	75331.0	75331.0	96.0 %		11:36:22
3	Al 396.153Radial†	-41.6	-13.8	-8.9884 µg/L	-8.9884 ppb	11:36:22
3	Ca 317.933Radial†	264.1	28.0	20.140 µg/L	20.140 ppb	11:36:42
3	Fe 238.204 Radial†	18.0	2.4	32.302 µg/L	32.302 ppb	11:36:42
3	K 766.490 Radial†	411.6	30.1	18.985 µg/L	18.985 ppb	11:36:22
3	Mg 279.077 IEC†	9.3	1.5	15.369 µg/L	15.369 ppb	11:36:42
3	Na 589.592 Radial†	363.3	-175.1	-46.630 µg/L	-46.630 ppb	11:36:22
3	Sr 421.552†	603.6	-5.2	-0.0313 µg/L	-0.0313 ppb	11:36:22
3	Sc 361.383	1934376.1	1934376.1	97.871 %		11:37:56
3	Y 371.029	1222642.5	1222642.5	97.881 %		11:37:56
3	Ag 328.068†	-27.5	64.5	0.5846 µg/L	0.5846 ppb	11:38:02
3	As 188.979†	-2.2	0.4	0.9272 µg/L	0.9272 ppb	11:38:23
3	B 249.677†	170.6	-195.6	-9.2829 µg/L	-9.2829 ppb	11:38:23
3	Ba 233.527†	-18.4	5.1	0.1434 µg/L	0.1434 ppb	11:38:23
3	Be 313.107†	3943.6	195.6	0.1315 µg/L	0.1315 ppb	11:38:02
3	Cd 226.502†	-130.9	-8.5	-0.2439 µg/L	-0.2439 ppb	11:38:23
3	Co 228.616†	-44.0	4.4	0.2336 µg/L	0.2336 ppb	11:38:23
3	Cr 267.716†	-82.6	17.7	0.3977 µg/L	0.3977 ppb	11:38:02
3	Cu 324.752†	3805.2	-12.0	-0.0832 µg/L	-0.0832 ppb	11:38:02
3	Mn 257.610†	-106.5	39.0	0.1420 µg/L	0.1420 ppb	11:38:23
3	Mo 202.031†	22.5	10.4	1.2672 µg/L	1.2672 ppb	11:38:23
3	Ni 231.604†	331.5	7.3	0.4413 µg/L	0.4413 ppb	11:38:23
3	P 214.914†	220.1	5.1	11.591 µg/L	11.591 ppb	11:38:23
3	Pb 220.353†	70.1	10.4	2.9319 µg/L	2.9319 ppb	11:38:23
3	S 181.975 Axial†	22.2	-0.4	-2.2913 µg/L	-2.2913 ppb	11:38:23
3	Sb 206.836†	25.2	1.7	1.8562 µg/L	1.8562 ppb	11:38:23
3	Se 196.026†	9.4	1.7	2.6787 µg/L	2.6787 ppb	11:38:23
3	SiO2†	2326.1	-12.7	-2.5984 µg/L	-2.5984 ppb	11:38:02
3	Si 251.611†	310.4	34.7	2.8119 µg/L	2.8119 ppb	11:38:23
3	Sn 189.927†	19.3	-3.7	-2.0873 µg/L	-2.0873 ppb	11:38:23
3	Ti 334.940†	756.2	68.8	0.1654 µg/L	0.1654 ppb	11:38:02
3	Tl 190.801†	-23.7	0.4	0.5940 µg/L	0.5940 ppb	11:38:23
3	U 409.014†	-210.8	-29.1	-2.7131 µg/L	-2.7131 ppb	11:38:02
3	V 292.402†	-103.6	9.5	0.1237 µg/L	0.1237 ppb	11:38:02
3	Zn 213.857†	648.6	30.5	0.8525 µg/L	0.8525 ppb	11:38:23

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1932544.0	97.778 %	0.1648			0.17%
Sc RADIAL	75461.2	96.2 %	0.28			0.29%
Y 371.029	1221472.6	97.787 %	0.1636			0.17%
Ag 328.068†	46.0	0.4187 µg/L	0.17007	0.4187 ppb	0.17007	40.61%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	5.2	3.3574 µg/L	10.69928	3.3574 ppb	10.69928	318.68%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.9	2.0043 µg/L	3.33553	2.0043 ppb	3.33553	166.42%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-196.0	-9.2981 µg/L	0.60121	-9.2981 ppb	0.60121	6.47%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.1	0.0877 µg/L	0.04891	0.0877 ppb	0.04891	55.80%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	167.9	0.1129 µg/L	0.01612	0.1129 ppb	0.01612	14.27%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	22.8	16.400 µg/L	3.3459	16.400 ppb	3.3459	20.40%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-5.6	-0.1630 µg/L	0.08512	-0.1630 ppb	0.08512	52.23%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	5.8	0.3097 µg/L	0.14110	0.3097 ppb	0.14110	45.56%

Cr	267.716†	36.1	0.8081 µg/L	0.53524	0.8081 ppb	0.53524	66.24%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	6.7	0.0534 µg/L	0.23439	0.0534 ppb	0.23439	439.29%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Fe	238.204 Radial†	2.3	30.553 µg/L	1.6462	30.553 ppb	1.6462	5.39%
QC value within limits for Cu 324.752 Recovery = Not calculated							
K	766.490 Radial†	11.2	7.0509 µg/L	37.54847	7.0509 ppb	37.54847	532.53%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
Mg	279.077 IEC†	1.6	16.918 µg/L	7.2064	16.918 ppb	7.2064	42.60%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mn	257.610†	42.0	0.1524 µg/L	0.04324	0.1524 ppb	0.04324	28.37%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mo	202.031†	8.5	1.0268 µg/L	0.40891	1.0268 ppb	0.40891	39.83%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Na	589.592 Radial†	-173.0	-46.066 µg/L	3.9448	-46.066 ppb	3.9448	8.56%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Ni	231.604†	6.1	0.3717 µg/L	0.12861	0.3717 ppb	0.12861	34.60%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
P	214.914†	4.2	9.5863 µg/L	6.15160	9.5863 ppb	6.15160	64.17%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb	220.353†	2.2	0.6374 µg/L	1.98708	0.6374 ppb	1.98708	311.73%
QC value within limits for P 214.914 Recovery = Not calculated							
S	181.975 Axial†	0.8	4.2652 µg/L	10.47222	4.2652 ppb	10.47222	245.52%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb	206.836†	3.2	3.3478 µg/L	5.57703	3.3478 ppb	5.57703	166.59%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Se	196.026†	0.3	0.5643 µg/L	4.88794	0.5643 ppb	4.88794	866.19%
QC value within limits for Sb 206.836 Recovery = Not calculated							
SiO2†		-14.9	-3.0418 µg/L	2.79724	-3.0418 ppb	2.79724	91.96%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	37.9	3.0687 µg/L	0.22287	3.0687 ppb	0.22287	7.26%
QC value within limits for SiO2 Recovery = Not calculated							
Sn	189.927†	-0.8	-0.4139 µg/L	1.74299	-0.4139 ppb	1.74299	421.13%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sr	421.552†	5.2	0.0312 µg/L	0.13382	0.0312 ppb	0.13382	428.29%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti	334.940†	64.6	0.1552 µg/L	0.00923	0.1552 ppb	0.00923	5.95%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Tl	190.801†	11.9	19.826 µg/L	30.0142	19.826 ppb	30.0142	151.39%
QC value within limits for Ti 334.940 Recovery = Not calculated							
U	409.014†	-47.2	-4.3892 µg/L	1.94813	-4.3892 ppb	1.94813	44.38%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V	292.402†	16.5	0.2048 µg/L	0.14780	0.2048 ppb	0.14780	72.16%
QC value within limits for U 409.014 Recovery = Not calculated							
Zn	213.857†	32.4	0.9061 µg/L	0.07596	0.9061 ppb	0.07596	8.38%
QC value within limits for V 292.402 Recovery = Not calculated							
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 20

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 12:08:06

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	76567.7	76567.7	97.6 %		12:08:44
1	Al 396.153Radial†	7787.2	8011.3	5177.5 µg/L	5177.5 ppb	12:08:44
1	Ca 317.933Radial†	7026.0	6954.4	5010.9 µg/L	5010.9 ppb	12:08:44
1	Fe 238.204 Radial†	401.8	395.5	5248.3 µg/L	5248.3 ppb	12:09:04
1	K 766.490 Radial†	8496.2	8309.7	5242.7 µg/L	5242.7 ppb	12:08:44
1	Mg 279.077 IEC†	509.0	513.5	5273.6 µg/L	5273.6 ppb	12:09:04
1	Na 589.592 Radial†	37580.4	37965.5	10108 µg/L	10108 ppb	12:08:44
1	Sr 421.552†	85197.0	86691.3	518.58 µg/L	518.58 ppb	12:08:44
1	Sc 361.383	1927779.1	1927779.1	97.537 %		12:10:08
1	Y 371.029	1213389.5	1213389.5	97.140 %		12:10:08
1	Ag 328.068†	58863.5	60442.4	549.51 µg/L	549.51 ppb	12:10:14
1	As 188.979†	239.8	248.6	540.90 µg/L	540.90 ppb	12:10:34
1	B 249.677†	11142.4	11053.8	521.72 µg/L	521.72 ppb	12:10:14
1	Ba 233.527†	18921.3	19423.0	543.53 µg/L	543.53 ppb	12:10:14
1	Be 313.107†	775396.6	791141.3	532.10 µg/L	532.10 ppb	12:10:08
1	Cd 226.502†	18455.9	19047.2	539.62 µg/L	539.62 ppb	12:10:14
1	Co 228.616†	9926.0	10225.9	543.35 µg/L	543.35 ppb	12:10:14
1	Cr 267.716†	23748.0	24449.8	548.18 µg/L	548.18 ppb	12:10:14
1	Cu 324.752†	76868.8	74909.8	549.99 µg/L	549.99 ppb	12:10:14
1	Mn 257.610†	147433.0	151303.5	536.79 µg/L	536.79 ppb	12:10:08
1	Mo 202.031†	4396.4	4494.8	544.73 µg/L	544.73 ppb	12:10:34
1	Ni 231.604†	9085.5	8983.5	543.36 µg/L	543.36 ppb	12:10:14
1	P 214.914†	1383.3	1198.4	2709.3 µg/L	2709.3 ppb	12:10:34
1	Pb 220.353†	1972.9	1961.6	550.44 µg/L	550.44 ppb	12:10:34
1	S 181.975 Axial†	219.0	201.4	1119.7 µg/L	1119.7 ppb	12:10:34
1	Sb 206.836†	531.5	520.9	553.25 µg/L	553.25 ppb	12:10:34
1	Se 196.026†	357.9	359.0	559.40 µg/L	559.40 ppb	12:10:34
1	SiO2†	30723.8	29110.1	5943.6 µg/L	5943.6 ppb	12:10:14
1	Si 251.611†	33647.4	34214.6	2771.5 µg/L	2771.5 ppb	12:10:14
1	Sn 189.927†	991.6	993.2	562.43 µg/L	562.43 ppb	12:10:34
1	Ti 334.940†	219188.5	224019.1	541.19 µg/L	541.19 ppb	12:10:08
1	Tl 190.801†	293.3	325.3	546.38 µg/L	546.38 ppb	12:10:34
1	U 409.014†	5527.2	5853.0	542.98 µg/L	542.98 ppb	12:10:14
1	V 292.402†	44277.3	45510.6	553.91 µg/L	553.91 ppb	12:10:14
1	Zn 213.857†	19520.9	19381.5	540.98 µg/L	540.98 ppb	12:10:14
2	Sc RADIAL	76859.3	76859.3	97.9 %		12:09:10
2	Al 396.153Radial†	7846.4	8041.4	5197.1 µg/L	5197.1 ppb	12:09:10
2	Ca 317.933Radial†	7109.9	7012.6	5052.9 µg/L	5052.9 ppb	12:09:10
2	Fe 238.204 Radial†	407.7	400.0	5308.0 µg/L	5308.0 ppb	12:09:30
2	K 766.490 Radial†	8609.3	8392.2	5294.7 µg/L	5294.7 ppb	12:09:10
2	Mg 279.077 IEC†	516.7	519.4	5334.2 µg/L	5334.2 ppb	12:09:30
2	Na 589.592 Radial†	37862.0	38107.0	10145 µg/L	10145 ppb	12:09:10
2	Sr 421.552†	86056.4	87237.5	521.85 µg/L	521.85 ppb	12:09:10
2	Sc 361.383	1927231.9	1927231.9	97.510 %		12:10:41
2	Y 371.029	1213744.1	1213744.1	97.169 %		12:10:41
2	Ag 328.068†	58524.9	60112.3	546.52 µg/L	546.52 ppb	12:10:47
2	As 188.979†	238.0	246.8	536.87 µg/L	536.87 ppb	12:11:07
2	B 249.677†	11053.0	10965.4	517.50 µg/L	517.50 ppb	12:10:47
2	Ba 233.527†	18781.2	19284.8	539.66 µg/L	539.66 ppb	12:10:47
2	Be 313.107†	775591.7	791567.1	532.39 µg/L	532.39 ppb	12:10:41
2	Cd 226.502†	18333.2	18926.7	536.20 µg/L	536.20 ppb	12:10:47
2	Co 228.616†	9857.6	10158.6	539.77 µg/L	539.77 ppb	12:10:47
2	Cr 267.716†	23609.0	24314.1	545.14 µg/L	545.14 ppb	12:10:47
2	Cu 324.752†	76440.1	74492.5	546.94 µg/L	546.94 ppb	12:10:47
2	Mn 257.610†	147424.9	151338.1	536.92 µg/L	536.92 ppb	12:10:41
2	Mo 202.031†	4360.8	4459.6	540.46 µg/L	540.46 ppb	12:11:07
2	Ni 231.604†	9019.9	8918.8	539.45 µg/L	539.45 ppb	12:10:47
2	P 214.914†	1377.4	1192.7	2696.3 µg/L	2696.3 ppb	12:11:07
2	Pb 220.353†	1968.1	1957.2	549.20 µg/L	549.20 ppb	12:11:07

2	S 181.975 Axial†	218.1	200.5	1114.7 µg/L	1114.7 ppb	12:11:07
2	Sb 206.836†	527.5	516.9	548.98 µg/L	548.98 ppb	12:11:07
2	Se 196.026†	362.2	363.5	566.43 µg/L	566.43 ppb	12:11:07
2	SiO2†	30580.7	28972.4	5915.5 µg/L	5915.5 ppb	12:10:47
2	Si 251.611†	33533.5	34107.5	2762.9 µg/L	2762.9 ppb	12:10:47
2	Sn 189.927†	973.5	974.9	552.16 µg/L	552.16 ppb	12:11:07
2	Ti 334.940†	219286.8	224183.7	541.58 µg/L	541.58 ppb	12:10:41
2	Tl 190.801†	295.2	327.3	549.76 µg/L	549.76 ppb	12:11:07
2	U 409.014†	5522.1	5849.3	542.63 µg/L	542.63 ppb	12:10:47
2	V 292.402†	44023.6	45263.4	550.90 µg/L	550.90 ppb	12:10:47
2	Zn 213.857†	19458.8	19323.6	539.37 µg/L	539.37 ppb	12:10:47
3	Sc RADIAL	77202.7	77202.7	98.4 %		12:09:36
3	Al 396.153Radial†	7877.3	8037.2	5196.0 µg/L	5196.0 ppb	12:09:36
3	Ca 317.933Radial†	7160.4	7031.8	5066.7 µg/L	5066.7 ppb	12:09:36
3	Fe 238.204 Radial†	403.5	393.8	5225.5 µg/L	5225.5 ppb	12:09:56
3	K 766.490 Radial†	8669.1	8413.9	5308.4 µg/L	5308.4 ppb	12:09:36
3	Mg 279.077 IEC†	518.5	518.9	5327.5 µg/L	5327.5 ppb	12:09:56
3	Na 589.592 Radial†	38080.1	38156.7	10159 µg/L	10159 ppb	12:09:36
3	Sr 421.552†	86582.8	87381.8	522.71 µg/L	522.71 ppb	12:09:36
3	Sc 361.383	1946543.9	1946543.9	98.487 %		12:11:15
3	Y 371.029	1225273.1	1225273.1	98.092 %		12:11:15
3	Ag 328.068†	56113.2	57068.0	518.72 µg/L	518.72 ppb	12:11:20
3	As 188.979†	207.5	213.4	464.33 µg/L	464.33 ppb	12:11:41
3	B 249.677†	10571.0	10363.5	488.95 µg/L	488.95 ppb	12:11:20
3	Ba 233.527†	17535.0	17828.4	498.89 µg/L	498.89 ppb	12:11:20
3	Be 313.107†	751378.3	759090.4	510.54 µg/L	510.54 ppb	12:11:15
3	Cd 226.502†	17043.3	17430.5	493.77 µg/L	493.77 ppb	12:11:20
3	Co 228.616†	9095.0	9284.0	493.22 µg/L	493.22 ppb	12:11:20
3	Cr 267.716†	21412.4	21843.6	489.76 µg/L	489.76 ppb	12:11:20
3	Cu 324.752†	71325.0	68521.0	503.15 µg/L	503.15 ppb	12:11:20
3	Mn 257.610†	143135.5	145482.8	516.15 µg/L	516.15 ppb	12:11:15
3	Mo 202.031†	3737.5	3782.3	458.41 µg/L	458.41 ppb	12:11:41
3	Ni 231.604†	8385.2	8182.7	494.93 µg/L	494.93 ppb	12:11:20
3	P 214.914†	1227.8	1026.8	2317.4 µg/L	2317.4 ppb	12:11:41
3	Pb 220.353†	1739.0	1704.6	478.23 µg/L	478.23 ppb	12:11:41
3	S 181.975 Axial†	199.1	179.0	995.09 µg/L	995.09 ppb	12:11:41
3	Sb 206.836†	464.4	447.6	474.88 µg/L	474.88 ppb	12:11:41
3	Se 196.026†	322.8	319.8	500.38 µg/L	500.38 ppb	12:11:41
3	SiO2†	28985.8	27041.8	5521.3 µg/L	5521.3 ppb	12:11:20
3	Si 251.611†	31660.7	31864.8	2581.2 µg/L	2581.2 ppb	12:11:20
3	Sn 189.927†	832.8	822.1	466.03 µg/L	466.03 ppb	12:11:41
3	Ti 334.940†	211520.8	214067.1	517.13 µg/L	517.13 ppb	12:11:15
3	Tl 190.801†	262.6	291.1	489.35 µg/L	489.35 ppb	12:11:41
3	U 409.014†	5026.1	5289.6	490.61 µg/L	490.61 ppb	12:11:20
3	V 292.402†	40590.2	41329.2	502.74 µg/L	502.74 ppb	12:11:20
3	Zn 213.857†	18074.6	17720.0	494.57 µg/L	494.57 ppb	12:11:20

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1933851.7	97.844 %	0.5563			0.57%
Sc RADIAL	76876.6	98.0 %	0.41			0.41%
Y 371.029	1217468.9	97.467 %	0.5413			0.56%
Ag 328.068†	59207.6	538.25 µg/L	16.979	538.25 ppb	16.979	3.15%
QC value within limits for Ag 328.068 Recovery = 107.65%						
Al 396.153Radial†	8029.9	5190.2 µg/L	11.03	5190.2 ppb	11.03	0.21%
QC value within limits for Al 396.153Radial Recovery = 103.80%						
As 188.979†	236.3	514.03 µg/L	43.091	514.03 ppb	43.091	8.38%
QC value within limits for As 188.979 Recovery = 102.81%						
B 249.677†	10794.2	509.39 µg/L	17.831	509.39 ppb	17.831	3.50%
QC value within limits for B 249.677 Recovery = 101.88%						
Ba 233.527†	18845.4	527.36 µg/L	24.729	527.36 ppb	24.729	4.69%
QC value within limits for Ba 233.527 Recovery = 105.47%						
Be 313.107†	780599.6	525.01 µg/L	12.529	525.01 ppb	12.529	2.39%
QC value within limits for Be 313.107 Recovery = 105.00%						
Ca 317.933Radial†	6999.6	5043.5 µg/L	29.05	5043.5 ppb	29.05	0.58%
QC value within limits for Ca 317.933Radial Recovery = 100.87%						
Cd 226.502†	18468.1	523.19 µg/L	25.542	523.19 ppb	25.542	4.88%
QC value within limits for Cd 226.502 Recovery = 104.64%						
Co 228.616†	9889.5	525.44 µg/L	27.968	525.44 ppb	27.968	5.32%

QC value within limits for Co 228.616	Recovery = 105.09%				
Cr 267.716†	23535.8	527.69 µg/L	32.890	527.69 ppb	32.890 6.23%
QC value within limits for Cr 267.716	Recovery = 105.54%				
Cu 324.752†	72641.1	533.36 µg/L	26.211	533.36 ppb	26.211 4.91%
QC value within limits for Cu 324.752	Recovery = 106.67%				
Fe 238.204 Radial†	396.4	5260.6 µg/L	42.63	5260.6 ppb	42.63 0.81%
QC value within limits for Fe 238.204 Radial	Recovery = 105.21%				
K 766.490 Radial†	8371.9	5281.9 µg/L	34.66	5281.9 ppb	34.66 0.66%
QC value within limits for K 766.490 Radial	Recovery = 105.64%				
Mg 279.077 IEC†	517.3	5311.8 µg/L	33.20	5311.8 ppb	33.20 0.63%
QC value within limits for Mg 279.077 IEC	Recovery = 106.24%				
Mn 257.610†	149374.8	529.95 µg/L	11.952	529.95 ppb	11.952 2.26%
QC value within limits for Mn 257.610	Recovery = 105.99%				
Mo 202.031†	4245.6	514.53 µg/L	48.649	514.53 ppb	48.649 9.46%
QC value within limits for Mo 202.031	Recovery = 102.91%				
Na 589.592 Radial†	38076.4	10137 µg/L	26.4	10137 ppb	26.4 0.26%
QC value within limits for Na 589.592 Radial	Recovery = 101.37%				
Ni 231.604†	8695.0	525.91 µg/L	26.904	525.91 ppb	26.904 5.12%
QC value within limits for Ni 231.604	Recovery = 105.18%				
P 214.914†	1139.3	2574.3 µg/L	222.58	2574.3 ppb	222.58 8.65%
QC value within limits for P 214.914	Recovery = 102.97%				
Pb 220.353†	1874.5	525.96 µg/L	41.334	525.96 ppb	41.334 7.86%
QC value within limits for Pb 220.353	Recovery = 105.19%				
S 181.975 Axial†	193.6	1076.5 µg/L	70.55	1076.5 ppb	70.55 6.55%
QC value within limits for S 181.975 Axial	Recovery = 107.65%				
Sb 206.836†	495.2	525.71 µg/L	44.069	525.71 ppb	44.069 8.38%
QC value within limits for Sb 206.836	Recovery = 105.14%				
Se 196.026†	347.4	542.07 µg/L	36.277	542.07 ppb	36.277 6.69%
QC value within limits for Se 196.026	Recovery = 108.41%				
SiO2†	28374.8	5793.4 µg/L	236.12	5793.4 ppb	236.12 4.08%
QC value within limits for SiO2	Recovery = 108.34%				
Si 251.611†	33395.6	2705.2 µg/L	107.48	2705.2 ppb	107.48 3.97%
QC value within limits for Si 251.611	Recovery = 108.21%				
Sn 189.927†	930.1	526.87 µg/L	52.939	526.87 ppb	52.939 10.05%
QC value within limits for Sn 189.927	Recovery = 105.37%				
Sr 421.552†	87103.5	521.05 µg/L	2.179	521.05 ppb	2.179 0.42%
QC value within limits for Sr 421.552	Recovery = 104.21%				
Ti 334.940†	220756.6	533.30 µg/L	14.006	533.30 ppb	14.006 2.63%
QC value within limits for Ti 334.940	Recovery = 106.66%				
Tl 190.801†	314.6	528.50 µg/L	33.946	528.50 ppb	33.946 6.42%
QC value within limits for Tl 190.801	Recovery = 105.70%				
U 409.014†	5664.0	525.41 µg/L	30.134	525.41 ppb	30.134 5.74%
QC value within limits for U 409.014	Recovery = 105.08%				
V 292.402†	44034.4	535.85 µg/L	28.712	535.85 ppb	28.712 5.36%
QC value within limits for V 292.402	Recovery = 107.17%				
Zn 213.857†	18808.4	524.97 µg/L	26.346	524.97 ppb	26.346 5.02%
QC value within limits for Zn 213.857	Recovery = 104.99%				

All analyte(s) passed QC.

Sequence No.: 21

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 12:11:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74400.5	74400.5	94.8 %		12:12:23
1	Al 396.153Radial†	7.0	36.9	23.871 µg/L	23.871 ppb	12:12:23
1	Ca 317.933Radial†	257.9	24.8	17.882 µg/L	17.882 ppb	12:12:43
1	Fe 238.204 Radial†	18.8	3.4	45.600 µg/L	45.600 ppb	12:12:43
1	K 766.490 Radial†	315.9	-65.4	-41.291 µg/L	-41.291 ppb	12:12:23
1	Mg 279.077 IEC†	10.8	3.3	33.363 µg/L	33.363 ppb	12:12:43
1	Na 589.592 Radial†	317.0	-219.3	-58.373 µg/L	-58.373 ppb	12:12:23
1	Sr 421.552†	610.8	10.3	0.0616 µg/L	0.0616 ppb	12:12:23
1	Sc 361.383	1935514.4	1935514.4	97.929 %		12:13:45
1	Y 371.029	1222824.5	1222824.5	97.896 %		12:13:45
1	Ag 328.068†	-83.5	7.3	0.0704 µg/L	0.0704 ppb	12:13:51
1	As 188.979†	-2.1	0.6	1.1996 µg/L	1.1996 ppb	12:14:11
1	B 249.677†	179.3	-186.8	-8.8723 µg/L	-8.8723 ppb	12:14:11
1	Ba 233.527†	-21.3	2.2	0.0633 µg/L	0.0633 ppb	12:14:11
1	Be 313.107†	3795.9	42.4	0.0283 µg/L	0.0283 ppb	12:13:51
1	Cd 226.502†	-117.3	5.5	0.1507 µg/L	0.1507 ppb	12:14:11
1	Co 228.616†	-41.1	7.3	0.3901 µg/L	0.3901 ppb	12:14:11
1	Cr 267.716†	-63.7	37.1	0.8315 µg/L	0.8315 ppb	12:13:51
1	Cu 324.752†	3788.2	-31.6	-0.2253 µg/L	-0.2253 ppb	12:13:51
1	Mn 257.610†	-51.4	95.4	0.3429 µg/L	0.3429 ppb	12:14:11
1	Mo 202.031†	19.9	7.8	0.9449 µg/L	0.9449 ppb	12:14:11
1	Ni 231.604†	324.7	0.1	0.0091 µg/L	0.0091 ppb	12:14:11
1	P 214.914†	214.9	-0.4	-1.0539 µg/L	-1.0539 ppb	12:14:11
1	Pb 220.353†	62.0	2.2	0.6160 µg/L	0.6160 ppb	12:14:11
1	S 181.975 Axial†	21.1	-1.5	-8.6076 µg/L	-8.6076 ppb	12:14:11
1	Sb 206.836†	25.8	2.3	2.4214 µg/L	2.4214 ppb	12:14:11
1	Se 196.026†	-2.4	-10.4	-15.388 µg/L	-15.388 ppb	12:14:11
1	SiO2†	2309.9	-30.7	-6.2636 µg/L	-6.2636 ppb	12:13:51
1	Si 251.611†	319.1	43.5	3.5209 µg/L	3.5209 ppb	12:14:11
1	Sn 189.927†	19.6	-3.4	-1.9156 µg/L	-1.9156 ppb	12:14:11
1	Ti 334.940†	916.4	231.9	0.5581 µg/L	0.5581 ppb	12:13:51
1	Tl 190.801†	-21.6	2.4	4.0508 µg/L	4.0508 ppb	12:14:11
1	U 409.014†	-141.6	41.6	3.8600 µg/L	3.8600 ppb	12:13:51
1	V 292.402†	-90.5	22.9	0.2916 µg/L	0.2916 ppb	12:13:51
1	Zn 213.857†	638.9	20.2	0.5640 µg/L	0.5640 ppb	12:14:11
2	Sc RADIAL	74847.4	74847.4	95.4 %		12:12:49
2	Al 396.153Radial†	-11.9	17.0	11.015 µg/L	11.015 ppb	12:12:49
2	Ca 317.933Radial†	264.9	30.6	22.056 µg/L	22.056 ppb	12:13:09
2	Fe 238.204 Radial†	18.8	3.4	44.382 µg/L	44.382 ppb	12:13:09
2	K 766.490 Radial†	389.6	9.8	6.1890 µg/L	6.1890 ppb	12:12:49
2	Mg 279.077 IEC†	11.8	4.2	43.352 µg/L	43.352 ppb	12:13:09
2	Na 589.592 Radial†	328.3	-209.4	-55.751 µg/L	-55.751 ppb	12:12:49
2	Sr 421.552†	645.2	42.5	0.2540 µg/L	0.2540 ppb	12:12:49
2	Sc 361.383	1940937.6	1940937.6	98.203 %		12:14:17
2	Y 371.029	1226568.3	1226568.3	98.195 %		12:14:17
2	Ag 328.068†	-68.4	23.0	0.2097 µg/L	0.2097 ppb	12:14:23
2	As 188.979†	-6.8	-4.2	-9.1195 µg/L	-9.1195 ppb	12:14:43
2	B 249.677†	158.9	-208.1	-9.8783 µg/L	-9.8783 ppb	12:14:43
2	Ba 233.527†	-18.1	5.5	0.1530 µg/L	0.1530 ppb	12:14:43
2	Be 313.107†	3805.1	41.0	0.0274 µg/L	0.0274 ppb	12:14:23
2	Cd 226.502†	-124.8	-1.8	-0.0563 µg/L	-0.0563 ppb	12:14:43
2	Co 228.616†	-44.9	3.6	0.1925 µg/L	0.1925 ppb	12:14:43
2	Cr 267.716†	-54.1	47.1	1.0551 µg/L	1.0551 ppb	12:14:23
2	Cu 324.752†	3746.7	-84.7	-0.6150 µg/L	-0.6150 ppb	12:14:23
2	Mn 257.610†	-47.6	99.4	0.3564 µg/L	0.3564 ppb	12:14:43
2	Mo 202.031†	19.8	7.5	0.9145 µg/L	0.9145 ppb	12:14:43
2	Ni 231.604†	319.2	-6.4	-0.3880 µg/L	-0.3880 ppb	12:14:43
2	P 214.914†	219.8	3.9	9.1180 µg/L	9.1180 ppb	12:14:43
2	Pb 220.353†	59.4	-0.6	-0.1713 µg/L	-0.1713 ppb	12:14:43

2	S 181.975 Axial†	24.7	2.0	11.390 µg/L	11.390 ppb	12:14:43
2	Sb 206.836†	25.1	1.5	1.6259 µg/L	1.6259 ppb	12:14:43
2	Se 196.026†	6.8	-1.0	-1.3276 µg/L	-1.3276 ppb	12:14:43
2	SiO2†	2278.3	-69.4	-14.172 µg/L	-14.172 ppb	12:14:23
2	Si 251.611†	308.7	31.9	2.5840 µg/L	2.5840 ppb	12:14:43
2	Sn 189.927†	22.6	-0.4	-0.2282 µg/L	-0.2282 ppb	12:14:43
2	Ti 334.940†	818.9	130.0	0.3112 µg/L	0.3112 ppb	12:14:23
2	Tl 190.801†	-22.0	2.1	3.5576 µg/L	3.5576 ppb	12:14:43
2	U 409.014†	-231.5	-49.5	-4.6129 µg/L	-4.6129 ppb	12:14:23
2	V 292.402†	-118.5	-5.4	-0.0577 µg/L	-0.0577 ppb	12:14:23
2	Zn 213.857†	655.8	35.6	0.9981 µg/L	0.9981 ppb	12:14:43
3	Sc RADIAL	75227.7	75227.7	95.9 %		12:13:15
3	Al 396.153Radial†	20.0	50.4	32.633 µg/L	32.633 ppb	12:13:15
3	Ca 317.933Radial†	250.1	13.8	9.9155 µg/L	9.9155 ppb	12:13:35
3	Fe 238.204 Radial†	19.0	3.5	46.428 µg/L	46.428 ppb	12:13:35
3	K 766.490 Radial†	414.9	34.2	21.554 µg/L	21.554 ppb	12:13:15
3	Mg 279.077 IEC†	10.8	3.1	32.062 µg/L	32.062 ppb	12:13:35
3	Na 589.592 Radial†	323.5	-216.2	-57.568 µg/L	-57.568 ppb	12:13:15
3	Sr 421.552†	628.8	22.0	0.1313 µg/L	0.1313 ppb	12:13:15
3	Sc 361.383	1939127.9	1939127.9	98.111 %		12:14:49
3	Y 371.029	1225246.4	1225246.4	98.090 %		12:14:49
3	Ag 328.068†	-51.0	40.6	0.3686 µg/L	0.3686 ppb	12:14:55
3	As 188.979†	0.0	2.8	6.0438 µg/L	6.0438 ppb	12:15:15
3	B 249.677†	146.0	-221.1	-10.497 µg/L	-10.497 ppb	12:15:15
3	Ba 233.527†	-29.3	-5.9	-0.1649 µg/L	-0.1649 ppb	12:15:15
3	Be 313.107†	3770.6	9.4	0.0062 µg/L	0.0062 ppb	12:14:55
3	Cd 226.502†	-116.0	7.0	0.1930 µg/L	0.1930 ppb	12:15:15
3	Co 228.616†	-46.8	1.6	0.0856 µg/L	0.0856 ppb	12:15:15
3	Cr 267.716†	-60.8	40.2	0.8996 µg/L	0.8996 ppb	12:14:55
3	Cu 324.752†	3779.6	-47.6	-0.3428 µg/L	-0.3428 ppb	12:14:55
3	Mn 257.610†	-72.3	74.1	0.2676 µg/L	0.2676 ppb	12:15:15
3	Mo 202.031†	18.2	6.0	0.7303 µg/L	0.7303 ppb	12:15:15
3	Ni 231.604†	320.2	-5.0	-0.3032 µg/L	-0.3032 ppb	12:15:15
3	P 214.914†	216.3	0.6	1.4891 µg/L	1.4891 ppb	12:15:15
3	Pb 220.353†	66.1	6.2	1.7566 µg/L	1.7566 ppb	12:15:15
3	S 181.975 Axial†	20.6	-2.1	-11.724 µg/L	-11.724 ppb	12:15:15
3	Sb 206.836†	27.0	3.6	3.7609 µg/L	3.7609 ppb	12:15:15
3	Se 196.026†	10.1	2.4	3.7289 µg/L	3.7289 ppb	12:15:15
3	SiO2†	2273.7	-71.9	-14.679 µg/L	-14.679 ppb	12:14:55
3	Si 251.611†	399.6	124.8	10.113 µg/L	10.113 ppb	12:15:15
3	Sn 189.927†	23.2	0.2	0.1432 µg/L	0.1432 ppb	12:15:15
3	Ti 334.940†	770.6	81.6	0.1948 µg/L	0.1948 ppb	12:14:55
3	Tl 190.801†	-16.7	7.5	12.416 µg/L	12.416 ppb	12:15:15
3	U 409.014†	-229.3	-47.5	-4.4231 µg/L	-4.4231 ppb	12:14:55
3	V 292.402†	-123.4	-10.4	-0.1202 µg/L	-0.1202 ppb	12:14:55
3	Zn 213.857†	648.0	28.2	0.7905 µg/L	0.7905 ppb	12:15:15

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1938526.6	98.081 %	0.1397			0.14%
Sc RADIAL	74825.2	95.3 %	0.53			0.55%
Y 371.029	1224879.8	98.060 %	0.1520			0.16%
Ag 328.068†	23.6	0.2162 µg/L	0.14920	0.2162 ppb	0.14920	69.00%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	34.8	22.506 µg/L	10.8733	22.506 ppb	10.8733	48.31%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.3	-0.6254 µg/L	7.74463	-0.6254 ppb	7.74463	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-205.4	-9.7491 µg/L	0.81990	-9.7491 ppb	0.81990	8.41%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	0.6	0.0172 µg/L	0.16391	0.0172 ppb	0.16391	955.14%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	30.9	0.0207 µg/L	0.01252	0.0207 ppb	0.01252	60.58%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	23.1	16.618 µg/L	6.1680	16.618 ppb	6.1680	37.12%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	3.6	0.0958 µg/L	0.13341	0.0958 ppb	0.13341	139.23%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	4.2	0.2227 µg/L	0.15451	0.2227 ppb	0.15451	69.37%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated		
	41.4	0.9287 µg/L	0.11461	0.9287 ppb
			0.11461	12.34%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated		
	-54.6	-0.3944 µg/L	0.19992	-0.3944 ppb
			0.19992	50.69%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated		
	3.4	45.470 µg/L	1.0292	45.470 ppb
			1.0292	2.26%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
	-7.2	-4.5160 µg/L	32.76168	-4.5160 ppb
			32.76168	725.45%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated		
	3.5	36.259 µg/L	6.1771	36.259 ppb
			6.1771	17.04%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
	89.6	0.3223 µg/L	0.04789	0.3223 ppb
			0.04789	14.86%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated		
	7.1	0.8632 µg/L	0.11609	0.8632 ppb
			0.11609	13.45%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated		
	-215.0	-57.231 µg/L	1.3428	-57.231 ppb
			1.3428	2.35%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
	-3.8	-0.2274 µg/L	0.20914	-0.2274 ppb
			0.20914	91.99%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated		
	1.4	3.1844 µg/L	5.29364	3.1844 ppb
			5.29364	166.24%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated		
	2.6	0.7338 µg/L	0.96933	0.7338 ppb
			0.96933	132.10%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated		
	-0.5	-2.9807 µg/L	12.54235	-2.9807 ppb
			12.54235	420.79%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated		
	2.5	2.6028 µg/L	1.07900	2.6028 ppb
			1.07900	41.46%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated		
	-3.0	-4.3290 µg/L	9.90558	-4.3290 ppb
			9.90558	228.82%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated		
	-57.3	-11.705 µg/L	4.7190	-11.705 ppb
			4.7190	40.32%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated		
	66.7	5.4059 µg/L	4.10320	5.4059 ppb
			4.10320	75.90%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated		
	-1.2	-0.6669 µg/L	1.09724	-0.6669 ppb
			1.09724	164.53%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated		
	24.9	0.1490 µg/L	0.09742	0.1490 ppb
			0.09742	65.39%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated		
	147.8	0.3547 µg/L	0.18553	0.3547 ppb
			0.18553	52.30%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated		
	4.0	6.6746 µg/L	4.97786	6.6746 ppb
			4.97786	74.58%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated		
	-18.5	-1.7254 µg/L	4.83800	-1.7254 ppb
			4.83800	280.41%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated		
	2.4	0.0379 µg/L	0.22187	0.0379 ppb
			0.22187	585.24%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated		
	28.0	0.7842 µg/L	0.21710	0.7842 ppb
			0.21710	27.68%

QC value within limits for Zn 213.857 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 12:47:49

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	76010.5	76010.5	96.9 %		12:48:27
1	Al 396.153Radial†	7654.4	7932.6	5126.7 µg/L	5126.7 ppb	12:48:27
1	Ca 317.933Radial†	6914.7	6892.2	4966.1 µg/L	4966.1 ppb	12:48:27
1	Fe 238.204 Radial†	396.9	393.4	5220.9 µg/L	5220.9 ppb	12:48:47
1	K 766.490 Radial†	8462.8	8339.1	5261.2 µg/L	5261.2 ppb	12:48:27
1	Mg 279.077 IEC†	503.1	511.3	5251.1 µg/L	5251.1 ppb	12:48:47
1	Na 589.592 Radial†	37183.3	37837.9	10074 µg/L	10074 ppb	12:48:27
1	Sr 421.552†	84274.6	86379.1	516.71 µg/L	516.71 ppb	12:48:27
1	Sc 361.383	1935213.5	1935213.5	97.913 %		12:49:51
1	Y 371.029	1218388.1	1218388.1	97.540 %		12:49:51
1	Ag 328.068†	57768.1	59091.8	537.23 µg/L	537.23 ppb	12:49:56
1	As 188.979†	238.1	245.9	534.99 µg/L	534.99 ppb	12:50:17
1	B 249.677†	10916.9	10779.6	508.73 µg/L	508.73 ppb	12:49:56
1	Ba 233.527†	18476.9	18894.7	528.74 µg/L	528.74 ppb	12:49:56
1	Be 313.107†	767515.1	780037.8	524.63 µg/L	524.63 ppb	12:49:51
1	Cd 226.502†	17992.5	18501.2	524.14 µg/L	524.14 ppb	12:49:56
1	Co 228.616†	9711.6	9967.9	529.63 µg/L	529.63 ppb	12:49:56
1	Cr 267.716†	23207.3	23804.0	533.70 µg/L	533.70 ppb	12:49:56
1	Cu 324.752†	75342.1	73047.8	536.34 µg/L	536.34 ppb	12:49:56
1	Mn 257.610†	146212.5	149476.3	530.31 µg/L	530.31 ppb	12:49:51
1	Mo 202.031†	4326.0	4405.6	533.92 µg/L	533.92 ppb	12:50:17
1	Ni 231.604†	8880.1	8738.0	528.51 µg/L	528.51 ppb	12:49:56
1	P 214.914†	1365.3	1174.6	2655.5 µg/L	2655.5 ppb	12:50:17
1	Pb 220.353†	1946.5	1926.8	540.68 µg/L	540.68 ppb	12:50:17
1	S 181.975 Axial†	210.3	191.6	1065.4 µg/L	1065.4 ppb	12:50:17
1	Sb 206.836†	518.8	505.9	537.32 µg/L	537.32 ppb	12:50:17
1	Se 196.026†	344.5	343.9	536.65 µg/L	536.65 ppb	12:50:17
1	SiO2†	30024.6	28275.0	5773.1 µg/L	5773.1 ppb	12:49:56
1	Si 251.611†	32925.0	33344.2	2701.0 µg/L	2701.0 ppb	12:49:56
1	Sn 189.927†	969.3	966.5	547.36 µg/L	547.36 ppb	12:50:17
1	Ti 334.940†	216770.6	220686.3	533.14 µg/L	533.14 ppb	12:49:51
1	Tl 190.801†	291.5	322.3	541.34 µg/L	541.34 ppb	12:50:17
1	U 409.014†	5456.7	5759.2	534.27 µg/L	534.27 ppb	12:49:56
1	V 292.402†	43348.6	44387.7	540.27 µg/L	540.27 ppb	12:49:56
1	Zn 213.857†	19179.5	18956.0	529.11 µg/L	529.11 ppb	12:49:56
2	Sc RADIAL	76615.1	76615.1	97.6 %		12:48:53
2	Al 396.153Radial†	7687.2	7903.9	5108.2 µg/L	5108.2 ppb	12:48:53
2	Ca 317.933Radial†	7003.7	6927.0	4991.2 µg/L	4991.2 ppb	12:48:53
2	Fe 238.204 Radial†	396.8	390.2	5177.6 µg/L	5177.6 ppb	12:49:13
2	K 766.490 Radial†	8485.1	8293.0	5232.1 µg/L	5232.1 ppb	12:48:53
2	Mg 279.077 IEC†	503.1	507.2	5208.6 µg/L	5208.6 ppb	12:49:13
2	Na 589.592 Radial†	37394.8	37751.6	10051 µg/L	10051 ppb	12:48:53
2	Sr 421.552†	84884.7	86317.3	516.34 µg/L	516.34 ppb	12:48:53
2	Sc 361.383	1939770.0	1939770.0	98.144 %		12:50:24
2	Y 371.029	1220828.1	1220828.1	97.736 %		12:50:24
2	Ag 328.068†	58112.9	59304.5	539.17 µg/L	539.17 ppb	12:50:30
2	As 188.979†	238.6	245.8	534.87 µg/L	534.87 ppb	12:50:50
2	B 249.677†	10975.0	10812.6	510.32 µg/L	510.32 ppb	12:50:30
2	Ba 233.527†	18661.4	19038.3	532.76 µg/L	532.76 ppb	12:50:30
2	Be 313.107†	772335.1	783107.7	526.70 µg/L	526.70 ppb	12:50:24
2	Cd 226.502†	18153.6	18622.2	527.58 µg/L	527.58 ppb	12:50:30
2	Co 228.616†	9759.8	9993.6	530.99 µg/L	530.99 ppb	12:50:30
2	Cr 267.716†	23361.1	23905.0	535.97 µg/L	535.97 ppb	12:50:30
2	Cu 324.752†	75864.1	73398.9	538.91 µg/L	538.91 ppb	12:50:30
2	Mn 257.610†	146993.1	149920.9	531.88 µg/L	531.88 ppb	12:50:24
2	Mo 202.031†	4294.6	4363.3	528.79 µg/L	528.79 ppb	12:50:50
2	Ni 231.604†	8994.8	8833.5	534.29 µg/L	534.29 ppb	12:50:30
2	P 214.914†	1365.6	1171.6	2648.3 µg/L	2648.3 ppb	12:50:50
2	Pb 220.353†	1929.4	1904.7	534.47 µg/L	534.47 ppb	12:50:50

2	S 181.975 Axial†	208.9	189.7	1054.6 µg/L	1054.6 ppb	12:50:50
2	Sb 206.836†	515.3	501.1	532.11 µg/L	532.11 ppb	12:50:50
2	Se 196.026†	349.6	348.3	543.08 µg/L	543.08 ppb	12:50:50
2	SiO2†	30224.1	28406.2	5799.9 µg/L	5799.9 ppb	12:50:30
2	Si 251.611†	33183.6	33528.8	2716.0 µg/L	2716.0 ppb	12:50:30
2	Sn 189.927†	957.6	952.2	539.30 µg/L	539.30 ppb	12:50:50
2	Ti 334.940†	217985.0	221403.7	534.87 µg/L	534.87 ppb	12:50:24
2	Tl 190.801†	292.6	322.7	542.07 µg/L	542.07 ppb	12:50:50
2	U 409.014†	5466.2	5755.8	533.96 µg/L	533.96 ppb	12:50:30
2	V 292.402†	43698.1	44639.8	543.27 µg/L	543.27 ppb	12:50:30
2	Zn 213.857†	19329.7	19063.0	532.10 µg/L	532.10 ppb	12:50:30
3	Sc RADIAL	76172.9	76172.9	97.1 %		12:49:18
3	Al 396.153Radial†	7701.0	7963.8	5148.7 µg/L	5148.7 ppb	12:49:18
3	Ca 317.933Radial†	6939.2	6902.2	4973.4 µg/L	4973.4 ppb	12:49:18
3	Fe 238.204 Radial†	399.3	395.1	5241.9 µg/L	5241.9 ppb	12:49:39
3	K 766.490 Radial†	8461.4	8319.0	5248.5 µg/L	5248.5 ppb	12:49:18
3	Mg 279.077 IEC†	504.4	511.5	5251.3 µg/L	5251.3 ppb	12:49:39
3	Na 589.592 Radial†	37284.0	37859.8	10080 µg/L	10080 ppb	12:49:18
3	Sr 421.552†	84620.9	86550.3	517.74 µg/L	517.74 ppb	12:49:18
3	Sc 361.383	1936047.5	1936047.5	97.956 %		12:50:57
3	Y 371.029	1218393.0	1218393.0	97.541 %		12:50:57
3	Ag 328.068†	55779.9	57036.7	518.39 µg/L	518.39 ppb	12:51:03
3	As 188.979†	206.5	213.5	464.58 µg/L	464.58 ppb	12:51:23
3	B 249.677†	10470.1	10318.7	486.80 µg/L	486.80 ppb	12:51:03
3	Ba 233.527†	17310.9	17696.2	495.19 µg/L	495.19 ppb	12:51:03
3	Be 313.107†	730841.9	742261.6	499.23 µg/L	499.23 ppb	12:50:57
3	Cd 226.502†	16790.7	17266.5	489.11 µg/L	489.11 ppb	12:51:03
3	Co 228.616†	9000.1	9237.3	490.75 µg/L	490.75 ppb	12:51:03
3	Cr 267.716†	20994.9	21535.2	482.84 µg/L	482.84 ppb	12:51:03
3	Cu 324.752†	70257.7	67824.1	498.04 µg/L	498.04 ppb	12:51:03
3	Mn 257.610†	139280.7	142335.5	505.00 µg/L	505.00 ppb	12:50:57
3	Mo 202.031†	3640.9	3704.3	448.96 µg/L	448.96 ppb	12:51:23
3	Ni 231.604†	8264.1	8105.2	490.24 µg/L	490.24 ppb	12:51:03
3	P 214.914†	1216.6	1022.2	2307.1 µg/L	2307.1 ppb	12:51:23
3	Pb 220.353†	1703.9	1678.3	470.84 µg/L	470.84 ppb	12:51:23
3	S 181.975 Axial†	190.9	171.8	955.08 µg/L	955.08 ppb	12:51:23
3	Sb 206.836†	450.9	436.3	462.92 µg/L	462.92 ppb	12:51:23
3	Se 196.026†	305.2	303.6	476.17 µg/L	476.17 ppb	12:51:23
3	SiO2†	28532.5	26738.6	5459.4 µg/L	5459.4 ppb	12:51:03
3	Si 251.611†	31170.4	31538.5	2554.8 µg/L	2554.8 ppb	12:51:03
3	Sn 189.927†	806.6	800.0	453.50 µg/L	453.50 ppb	12:51:23
3	Ti 334.940†	205246.4	208826.3	504.47 µg/L	504.47 ppb	12:50:57
3	Tl 190.801†	258.5	288.4	484.67 µg/L	484.67 ppb	12:51:23
3	U 409.014†	4911.0	5199.7	482.27 µg/L	482.27 ppb	12:51:03
3	V 292.402†	39832.2	40778.9	496.02 µg/L	496.02 ppb	12:51:03
3	Zn 213.857†	17794.0	17533.1	489.34 µg/L	489.34 ppb	12:51:03

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1937010.3	98.004 %	0.1227			0.13%
Sc RADIAL	76266.1	97.2 %	0.40			0.41%
Y 371.029	1219203.0	97.606 %	0.1127			0.12%
Ag 328.068†	58477.7	531.60 µg/L	11.475	531.60 ppb	11.475	2.16%
QC value within limits for Ag 328.068 Recovery = 106.32%						
Al 396.153Radial†	7933.4	5127.9 µg/L	20.26	5127.9 ppb	20.26	0.40%
QC value within limits for Al 396.153Radial Recovery = 102.56%						
As 188.979†	235.1	511.48 µg/L	40.612	511.48 ppb	40.612	7.94%
QC value within limits for As 188.979 Recovery = 102.30%						
B 249.677†	10637.0	501.95 µg/L	13.141	501.95 ppb	13.141	2.62%
QC value within limits for B 249.677 Recovery = 100.39%						
Ba 233.527†	18543.0	518.90 µg/L	20.631	518.90 ppb	20.631	3.98%
QC value within limits for Ba 233.527 Recovery = 103.78%						
Be 313.107†	768469.0	516.85 µg/L	15.299	516.85 ppb	15.299	2.96%
QC value within limits for Be 313.107 Recovery = 103.37%						
Ca 317.933Radial†	6907.1	4976.9 µg/L	12.91	4976.9 ppb	12.91	0.26%
QC value within limits for Ca 317.933Radial Recovery = 99.54%						
Cd 226.502†	18130.0	513.61 µg/L	21.284	513.61 ppb	21.284	4.14%
QC value within limits for Cd 226.502 Recovery = 102.72%						
Co 228.616†	9732.9	517.12 µg/L	22.853	517.12 ppb	22.853	4.42%

QC value within limits for Co 228.616 Recovery = 103.42%							
Cr 267.716†	23081.4	517.51 µg/L	30.041	517.51 ppb	30.041	5.80%	
QC value within limits for Cr 267.716 Recovery = 103.50%							
Cu 324.752†	71423.6	524.43 µg/L	22.889	524.43 ppb	22.889	4.36%	
QC value within limits for Cu 324.752 Recovery = 104.89%							
Fe 238.204 Radial†	392.9	5213.5 µg/L	32.80	5213.5 ppb	32.80	0.63%	
QC value within limits for Fe 238.204 Radial Recovery = 104.27%							
K 766.490 Radial†	8317.1	5247.3 µg/L	14.60	5247.3 ppb	14.60	0.28%	
QC value within limits for K 766.490 Radial Recovery = 104.95%							
Mg 279.077 IEC†	510.0	5237.0 µg/L	24.60	5237.0 ppb	24.60	0.47%	
QC value within limits for Mg 279.077 IEC Recovery = 104.74%							
Mn 257.610†	147244.2	522.40 µg/L	15.086	522.40 ppb	15.086	2.89%	
QC value within limits for Mn 257.610 Recovery = 104.48%							
Mo 202.031†	4157.7	503.89 µg/L	47.641	503.89 ppb	47.641	9.45%	
QC value within limits for Mo 202.031 Recovery = 100.78%							
Na 589.592 Radial†	37816.4	10068 µg/L	15.2	10068 ppb	15.2	0.15%	
QC value within limits for Na 589.592 Radial Recovery = 100.68%							
Ni 231.604†	8558.9	517.68 µg/L	23.938	517.68 ppb	23.938	4.62%	
QC value within limits for Ni 231.604 Recovery = 103.54%							
P 214.914†	1122.8	2537.0 µg/L	199.13	2537.0 ppb	199.13	7.85%	
QC value within limits for P 214.914 Recovery = 101.48%							
Pb 220.353†	1836.6	515.33 µg/L	38.658	515.33 ppb	38.658	7.50%	
QC value within limits for Pb 220.353 Recovery = 103.07%							
S 181.975 Axial†	184.4	1025.0 µg/L	60.81	1025.0 ppb	60.81	5.93%	
QC value within limits for S 181.975 Axial Recovery = 102.50%							
Sb 206.836†	481.1	510.78 µg/L	41.533	510.78 ppb	41.533	8.13%	
QC value within limits for Sb 206.836 Recovery = 102.16%							
Se 196.026†	332.0	518.63 µg/L	36.914	518.63 ppb	36.914	7.12%	
QC value within limits for Se 196.026 Recovery = 103.73%							
SiO2†	27806.6	5677.5 µg/L	189.32	5677.5 ppb	189.32	3.33%	
QC value within limits for SiO2 Recovery = 106.17%							
Si 251.611†	32803.8	2657.3 µg/L	89.08	2657.3 ppb	89.08	3.35%	
QC value within limits for Si 251.611 Recovery = 106.29%							
Sn 189.927†	906.2	513.39 µg/L	52.021	513.39 ppb	52.021	10.13%	
QC value within limits for Sn 189.927 Recovery = 102.68%							
Sr 421.552†	86415.6	516.93 µg/L	0.722	516.93 ppb	0.722	0.14%	
QC value within limits for Sr 421.552 Recovery = 103.39%							
Ti 334.940†	216972.1	524.16 µg/L	17.076	524.16 ppb	17.076	3.26%	
QC value within limits for Ti 334.940 Recovery = 104.83%							
Tl 190.801†	311.1	522.70 µg/L	32.932	522.70 ppb	32.932	6.30%	
QC value within limits for Tl 190.801 Recovery = 104.54%							
U 409.014†	5571.6	516.83 µg/L	29.934	516.83 ppb	29.934	5.79%	
QC value within limits for U 409.014 Recovery = 103.37%							
V 292.402†	43268.8	526.52 µg/L	26.454	526.52 ppb	26.454	5.02%	
QC value within limits for V 292.402 Recovery = 105.30%							
Zn 213.857†	18517.4	516.85 µg/L	23.867	516.85 ppb	23.867	4.62%	
QC value within limits for Zn 213.857 Recovery = 103.37%							
All analyte(s) passed QC.							

Sequence No.: 8

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 12:51:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74574.8	74574.8	95.0 %		12:52:05
1	Al 396.153Radial†	-15.4	13.3	8.6002 µg/L	8.6002 ppb	12:52:05
1	Ca 317.933Radial†	248.3	14.1	10.187 µg/L	10.187 ppb	12:52:26
1	Fe 238.204 Radial†	16.1	0.6	7.9501 µg/L	7.9501 ppb	12:52:26
1	K 766.490 Radial†	437.0	61.2	38.595 µg/L	38.595 ppb	12:52:05
1	Mg 279.077 IEC†	8.4	0.7	7.1814 µg/L	7.1814 ppb	12:52:26
1	Na 589.592 Radial†	347.9	-187.5	-49.930 µg/L	-49.930 ppb	12:52:05
1	Sr 421.552†	644.6	44.3	0.2649 µg/L	0.2649 ppb	12:52:05
1	Sc 361.383	1921699.8	1921699.8	97.230 %		12:53:28
1	Y 371.029	1213390.3	1213390.3	97.140 %		12:53:28
1	Ag 328.068†	-90.4	-0.4	-0.0048 µg/L	-0.0048 ppb	12:53:33
1	As 188.979†	-2.3	0.3	0.6668 µg/L	0.6668 ppb	12:53:54
1	B 249.677†	168.5	-196.6	-9.3173 µg/L	-9.3173 ppb	12:53:54
1	Ba 233.527†	-31.1	-8.0	-0.2240 µg/L	-0.2240 ppb	12:53:54
1	Be 313.107†	3821.6	96.7	0.0650 µg/L	0.0650 ppb	12:53:33
1	Cd 226.502†	-123.8	-2.1	-0.0591 µg/L	-0.0591 ppb	12:53:54
1	Co 228.616†	-46.9	1.1	0.0595 µg/L	0.0595 ppb	12:53:54
1	Cr 267.716†	-73.4	26.6	0.5965 µg/L	0.5965 ppb	12:53:54
1	Cu 324.752†	3742.0	-51.3	-0.3752 µg/L	-0.3752 ppb	12:53:33
1	Mn 257.610†	-118.2	26.3	0.0941 µg/L	0.0941 ppb	12:53:54
1	Mo 202.031†	24.0	12.1	1.4696 µg/L	1.4696 ppb	12:53:54
1	Ni 231.604†	334.4	12.5	0.7569 µg/L	0.7569 ppb	12:53:54
1	P 214.914†	223.3	9.8	22.589 µg/L	22.589 ppb	12:53:54
1	Pb 220.353†	62.9	3.6	1.0175 µg/L	1.0175 ppb	12:53:54
1	S 181.975 Axial†	23.1	0.7	3.7436 µg/L	3.7436 ppb	12:53:54
1	Sb 206.836†	26.9	3.7	3.9000 µg/L	3.9000 ppb	12:53:54
1	Se 196.026†	4.7	-3.1	-4.6737 µg/L	-4.6737 ppb	12:53:54
1	SiO2†	2271.6	-53.1	-10.833 µg/L	-10.833 ppb	12:53:33
1	Si 251.611†	270.6	-4.1	-0.3310 µg/L	-0.3310 ppb	12:53:54
1	Sn 189.927†	23.1	0.2	0.1448 µg/L	0.1448 ppb	12:53:54
1	Ti 334.940†	766.3	84.2	0.2032 µg/L	0.2032 ppb	12:53:33
1	Tl 190.801†	-20.7	3.2	5.3806 µg/L	5.3806 ppb	12:53:54
1	U 409.014†	-270.4	-91.9	-8.5445 µg/L	-8.5445 ppb	12:53:33
1	V 292.402†	-135.3	-23.8	-0.2824 µg/L	-0.2824 ppb	12:53:33
1	Zn 213.857†	634.5	20.3	0.5664 µg/L	0.5664 ppb	12:53:54
2	Sc RADIAL	74568.6	74568.6	95.0 %		12:52:31
2	Al 396.153Radial†	-12.1	16.8	10.867 µg/L	10.867 ppb	12:52:31
2	Ca 317.933Radial†	255.5	21.7	15.636 µg/L	15.636 ppb	12:52:52
2	Fe 238.204 Radial†	17.3	1.9	24.517 µg/L	24.517 ppb	12:52:52
2	K 766.490 Radial†	381.7	3.0	1.8948 µg/L	1.8948 ppb	12:52:31
2	Mg 279.077 IEC†	8.1	0.4	3.8273 µg/L	3.8273 ppb	12:52:52
2	Na 589.592 Radial†	336.9	-199.1	-53.006 µg/L	-53.006 ppb	12:52:31
2	Sr 421.552†	627.4	26.3	0.1574 µg/L	0.1574 ppb	12:52:31
2	Sc 361.383	1919482.5	1919482.5	97.117 %		12:54:00
2	Y 371.029	1213234.3	1213234.3	97.128 %		12:54:00
2	Ag 328.068†	-160.1	-72.3	-0.6483 µg/L	-0.6483 ppb	12:54:05
2	As 188.979†	-2.7	-0.0	-0.0371 µg/L	-0.0371 ppb	12:54:26
2	B 249.677†	167.5	-197.4	-9.3632 µg/L	-9.3632 ppb	12:54:26
2	Ba 233.527†	-26.1	-2.9	-0.0798 µg/L	-0.0798 ppb	12:54:26
2	Be 313.107†	3838.7	118.8	0.0799 µg/L	0.0799 ppb	12:54:05
2	Cd 226.502†	-122.1	-0.4	-0.0146 µg/L	-0.0146 ppb	12:54:26
2	Co 228.616†	-53.5	-5.7	-0.3048 µg/L	-0.3048 ppb	12:54:26
2	Cr 267.716†	-64.8	35.5	0.7951 µg/L	0.7951 ppb	12:54:26
2	Cu 324.752†	3750.6	-38.0	-0.2753 µg/L	-0.2753 ppb	12:54:05
2	Mn 257.610†	-116.0	28.4	0.1038 µg/L	0.1038 ppb	12:54:26
2	Mo 202.031†	16.9	4.8	0.5790 µg/L	0.5790 ppb	12:54:26
2	Ni 231.604†	326.2	4.5	0.2717 µg/L	0.2717 ppb	12:54:26
2	P 214.914†	222.7	9.5	21.941 µg/L	21.941 ppb	12:54:26
2	Pb 220.353†	64.1	4.8	1.3644 µg/L	1.3644 ppb	12:54:26

2	S 181.975 Axial†	19.8	-2.8	-15.386 µg/L	-15.386 ppb	12:54:26
2	Sb 206.836†	24.2	0.9	0.9595 µg/L	0.9595 ppb	12:54:26
2	Se 196.026†	8.8	1.1	1.7785 µg/L	1.7785 ppb	12:54:26
2	SiO2†	2267.7	-54.4	-11.101 µg/L	-11.101 ppb	12:54:05
2	Si 251.611†	273.7	-0.6	-0.0464 µg/L	-0.0464 ppb	12:54:26
2	Sn 189.927†	24.2	1.5	0.8266 µg/L	0.8266 ppb	12:54:26
2	Ti 334.940†	678.2	-5.6	-0.0135 µg/L	-0.0135 ppb	12:54:05
2	Tl 190.801†	-24.8	-1.1	-1.7559 µg/L	-1.7559 ppb	12:54:26
2	U 409.014†	-221.9	-42.2	-3.9282 µg/L	-3.9282 ppb	12:54:05
2	V 292.402†	-82.1	30.7	0.3734 µg/L	0.3734 ppb	12:54:05
2	Zn 213.857†	633.0	19.5	0.5455 µg/L	0.5455 ppb	12:54:26
3	Sc RADIAL	75058.1	75058.1	95.6 %		12:52:57
3	Al 396.153Radial†	-22.5	6.0	3.8795 µg/L	3.8795 ppb	12:52:57
3	Ca 317.933Radial†	254.1	18.5	13.314 µg/L	13.314 ppb	12:53:17
3	Fe 238.204 Radial†	17.6	2.1	27.502 µg/L	27.502 ppb	12:53:17
3	K 766.490 Radial†	371.5	-10.2	-6.4535 µg/L	-6.4535 ppb	12:52:57
3	Mg 279.077 IEC†	10.8	3.2	32.337 µg/L	32.337 ppb	12:53:17
3	Na 589.592 Radial†	328.3	-210.4	-56.023 µg/L	-56.023 ppb	12:52:57
3	Sr 421.552†	646.8	42.3	0.2530 µg/L	0.2530 ppb	12:52:57
3	Sc 361.383	1926659.6	1926659.6	97.481 %		12:54:32
3	Y 371.029	1217337.0	1217337.0	97.456 %		12:54:32
3	Ag 328.068†	-148.5	-59.7	-0.5375 µg/L	-0.5375 ppb	12:54:37
3	As 188.979†	-1.2	1.5	3.1845 µg/L	3.1845 ppb	12:54:58
3	B 249.677†	162.8	-202.9	-9.6240 µg/L	-9.6240 ppb	12:54:58
3	Ba 233.527†	-30.1	-6.9	-0.1929 µg/L	-0.1929 ppb	12:54:58
3	Be 313.107†	3857.1	123.0	0.0827 µg/L	0.0827 ppb	12:54:37
3	Cd 226.502†	-117.6	4.6	0.1281 µg/L	0.1281 ppb	12:54:58
3	Co 228.616†	-42.8	5.4	0.2873 µg/L	0.2873 ppb	12:54:58
3	Cr 267.716†	-46.8	54.1	1.2127 µg/L	1.2127 ppb	12:54:58
3	Cu 324.752†	3757.9	-45.0	-0.3258 µg/L	-0.3258 ppb	12:54:37
3	Mn 257.610†	-118.4	26.4	0.0960 µg/L	0.0960 ppb	12:54:58
3	Mo 202.031†	18.3	6.2	0.7515 µg/L	0.7515 ppb	12:54:58
3	Ni 231.604†	332.1	9.3	0.5623 µg/L	0.5623 ppb	12:54:58
3	P 214.914†	222.4	8.3	19.239 µg/L	19.239 ppb	12:54:58
3	Pb 220.353†	70.9	11.6	3.2490 µg/L	3.2490 ppb	12:54:58
3	S 181.975 Axial†	23.2	0.7	3.9181 µg/L	3.9181 ppb	12:54:58
3	Sb 206.836†	26.1	2.7	2.8989 µg/L	2.8989 ppb	12:54:58
3	Se 196.026†	4.3	-3.5	-5.2336 µg/L	-5.2336 ppb	12:54:58
3	SiO2†	2258.5	-72.5	-14.802 µg/L	-14.802 ppb	12:54:37
3	Si 251.611†	277.8	2.5	0.2045 µg/L	0.2045 ppb	12:54:58
3	Sn 189.927†	23.7	0.9	0.5115 µg/L	0.5115 ppb	12:54:58
3	Ti 334.940†	718.1	32.8	0.0769 µg/L	0.0769 ppb	12:54:37
3	Tl 190.801†	-24.9	-1.0	-1.7576 µg/L	-1.7576 ppb	12:54:58
3	U 409.014†	-230.8	-50.6	-4.7047 µg/L	-4.7047 ppb	12:54:37
3	V 292.402†	-114.0	-1.7	-0.0147 µg/L	-0.0147 ppb	12:54:37
3	Zn 213.857†	630.2	14.2	0.3954 µg/L	0.3954 ppb	12:54:58

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1922614.0	97.276 %	0.1859			0.19%
Sc RADIAL	74733.8	95.2 %	0.36			0.38%
Y 371.029	1214653.8	97.242 %	0.1861			0.19%
Ag 328.068†	-44.1	-0.3968 µg/L	0.34405	-0.3968 ppb	0.34405	86.70%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	12.0	7.7821 µg/L	3.56470	7.7821 ppb	3.56470	45.81%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.6	1.2714 µg/L	1.69376	1.2714 ppb	1.69376	133.22%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-199.0	-9.4348 µg/L	0.16539	-9.4348 ppb	0.16539	1.75%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-5.9	-0.1655 µg/L	0.07585	-0.1655 ppb	0.07585	45.82%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	112.8	0.0759 µg/L	0.00954	0.0759 ppb	0.00954	12.57%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	18.1	13.046 µg/L	2.7341	13.046 ppb	2.7341	20.96%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	0.7	0.0181 µg/L	0.09780	0.0181 ppb	0.09780	539.16%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.3	0.0140 µg/L	0.29863	0.0140 ppb	0.29863	>999.9%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	38.7	0.8681 µg/L	0.31452	0.8681 ppb	0.31452 36.23%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	-44.8	-0.3254 µg/L	0.04991	-0.3254 ppb	0.04991 15.34%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	1.5	19.990 µg/L	10.5330	19.990 ppb	10.5330 52.69%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	18.0	11.345 µg/L	23.9650	11.345 ppb	23.9650 211.23%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	1.4	14.449 µg/L	15.5825	14.449 ppb	15.5825 107.85%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	27.0	0.0979 µg/L	0.00512	0.0979 ppb	0.00512 5.23%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	7.7	0.9334 µg/L	0.47231	0.9334 ppb	0.47231 50.60%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	-199.0	-52.987 µg/L	3.0465	-52.987 ppb	3.0465 5.75%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	8.8	0.5303 µg/L	0.24416	0.5303 ppb	0.24416 46.04%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	9.2	21.256 µg/L	1.7770	21.256 ppb	1.7770 8.36%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	6.7	1.8769 µg/L	1.20080	1.8769 ppb	1.20080 63.98%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	-0.5	-2.5746 µg/L	11.09495	-2.5746 ppb	11.09495 430.93%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	2.4	2.5861 µg/L	1.49497	2.5861 ppb	1.49497 57.81%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	-1.9	-2.7096 µg/L	3.89685	-2.7096 ppb	3.89685 143.82%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-60.0	-12.245 µg/L	2.2185	-12.245 ppb	2.2185 18.12%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	-0.7	-0.0576 µg/L	0.26793	-0.0576 ppb	0.26793 465.10%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	0.9	0.4943 µg/L	0.34123	0.4943 ppb	0.34123 69.03%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	37.6	0.2251 µg/L	0.05892	0.2251 ppb	0.05892 26.18%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	37.1	0.0889 µg/L	0.10887	0.0889 ppb	0.10887 122.53%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	0.4	0.6224 µg/L	4.12072	0.6224 ppb	4.12072 662.10%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	-61.6	-5.7258 µg/L	2.47176	-5.7258 ppb	2.47176 43.17%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	1.8	0.0254 µg/L	0.32977	0.0254 ppb	0.32977 >999.9%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	18.0	0.5024 µg/L	0.09326	0.5024 ppb	0.09326 18.56%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 13:17:22

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	76020.6	76020.6	96.9 %		13:18:00
1	Al 396.153Radial†	7497.5	7769.6	5021.4 µg/L	5021.4 ppb	13:18:00
1	Ca 317.933Radial†	6692.5	6661.8	4800.2 µg/L	4800.2 ppb	13:18:20
1	Fe 238.204 Radial†	388.8	385.0	5109.5 µg/L	5109.5 ppb	13:18:20
1	K 766.490 Radial†	8322.6	8193.2	5169.2 µg/L	5169.2 ppb	13:18:00
1	Mg 279.077 IEC†	494.9	502.8	5163.3 µg/L	5163.3 ppb	13:18:20
1	Na 589.592 Radial†	36317.7	36939.2	9834.5 µg/L	9834.5 ppb	13:18:00
1	Sr 421.552†	82697.9	84739.8	506.91 µg/L	506.91 ppb	13:18:00
1	Sc 361.383	1937980.5	1937980.5	98.053 %		13:19:24
1	Y 371.029	1220457.5	1220457.5	97.706 %		13:19:24
1	Ag 328.068†	56304.2	57514.6	522.92 µg/L	522.92 ppb	13:19:29
1	As 188.979†	233.7	241.1	524.45 µg/L	524.45 ppb	13:19:50
1	B 249.677†	10657.5	10499.1	495.48 µg/L	495.48 ppb	13:19:29
1	Ba 233.527†	18151.2	18535.5	518.69 µg/L	518.69 ppb	13:19:29
1	Be 313.107†	755163.9	766322.2	515.41 µg/L	515.41 ppb	13:19:24
1	Cd 226.502†	17650.2	18125.9	513.51 µg/L	513.51 ppb	13:19:29
1	Co 228.616†	9564.4	9803.6	520.91 µg/L	520.91 ppb	13:19:29
1	Cr 267.716†	22792.2	23346.9	523.46 µg/L	523.46 ppb	13:19:29
1	Cu 324.752†	73976.4	71545.1	525.30 µg/L	525.30 ppb	13:19:29
1	Mn 257.610†	143777.7	146780.0	520.74 µg/L	520.74 ppb	13:19:24
1	Mo 202.031†	4232.4	4303.9	521.59 µg/L	521.59 ppb	13:19:50
1	Ni 231.604†	8752.3	8594.7	519.84 µg/L	519.84 ppb	13:19:29
1	P 214.914†	1348.5	1155.5	2612.5 µg/L	2612.5 ppb	13:19:50
1	Pb 220.353†	1905.3	1882.0	528.10 µg/L	528.10 ppb	13:19:50
1	S 181.975 Axial†	214.5	195.7	1087.8 µg/L	1087.8 ppb	13:19:50
1	Sb 206.836†	505.9	491.9	522.45 µg/L	522.45 ppb	13:19:50
1	Se 196.026†	348.1	347.1	540.91 µg/L	540.91 ppb	13:19:50
1	SiO2†	29165.0	27354.6	5585.2 µg/L	5585.2 ppb	13:19:29
1	Si 251.611†	31836.7	32186.4	2607.2 µg/L	2607.2 ppb	13:19:29
1	Sn 189.927†	944.2	939.4	532.06 µg/L	532.06 ppb	13:19:50
1	Ti 334.940†	211554.9	215051.0	519.52 µg/L	519.52 ppb	13:19:24
1	Tl 190.801†	288.3	318.5	534.98 µg/L	534.98 ppb	13:19:50
1	U 409.014†	5342.8	5635.1	522.76 µg/L	522.76 ppb	13:19:29
1	V 292.402†	42554.6	43514.7	529.63 µg/L	529.63 ppb	13:19:29
1	Zn 213.857†	18842.2	18584.1	518.72 µg/L	518.72 ppb	13:19:29
2	Sc RADIAL	75983.0	75983.0	96.8 %		13:18:26
2	Al 396.153Radial†	7511.9	7788.3	5033.7 µg/L	5033.7 ppb	13:18:26
2	Ca 317.933Radial†	6730.8	6704.8	4831.1 µg/L	4831.1 ppb	13:18:46
2	Fe 238.204 Radial†	388.2	384.6	5104.3 µg/L	5104.3 ppb	13:18:46
2	K 766.490 Radial†	8367.9	8244.2	5201.3 µg/L	5201.3 ppb	13:18:26
2	Mg 279.077 IEC†	497.4	505.6	5191.9 µg/L	5191.9 ppb	13:18:46
2	Na 589.592 Radial†	36438.1	37082.1	9872.5 µg/L	9872.5 ppb	13:18:26
2	Sr 421.552†	82859.1	84948.5	508.15 µg/L	508.15 ppb	13:18:26
2	Sc 361.383	1938321.7	1938321.7	98.071 %		13:19:57
2	Y 371.029	1220088.2	1220088.2	97.677 %		13:19:57
2	Ag 328.068†	56520.6	57725.1	524.83 µg/L	524.83 ppb	13:20:03
2	As 188.979†	235.6	242.9	528.52 µg/L	528.52 ppb	13:20:23
2	B 249.677†	10737.4	10578.7	499.26 µg/L	499.26 ppb	13:20:03
2	Ba 233.527†	18202.2	18584.2	520.06 µg/L	520.06 ppb	13:20:03
2	Be 313.107†	750120.2	761043.7	511.86 µg/L	511.86 ppb	13:19:57
2	Cd 226.502†	17711.2	18184.9	515.18 µg/L	515.18 ppb	13:20:03
2	Co 228.616†	9564.0	9801.5	520.80 µg/L	520.80 ppb	13:20:03
2	Cr 267.716†	22904.1	23456.9	525.92 µg/L	525.92 ppb	13:20:03
2	Cu 324.752†	74324.4	71886.7	527.81 µg/L	527.81 ppb	13:20:03
2	Mn 257.610†	142970.7	145931.3	517.73 µg/L	517.73 ppb	13:19:57
2	Mo 202.031†	4179.7	4249.4	514.98 µg/L	514.98 ppb	13:20:23
2	Ni 231.604†	8793.6	8635.2	522.29 µg/L	522.29 ppb	13:20:03
2	P 214.914†	1337.5	1144.0	2585.7 µg/L	2585.7 ppb	13:20:23
2	Pb 220.353†	1906.1	1882.4	528.19 µg/L	528.19 ppb	13:20:23

2	S 181.975 Axial†	209.6	190.6	1059.4 µg/L	1059.4 ppb	13:20:23
2	Sb 206.836†	502.8	488.6	518.87 µg/L	518.87 ppb	13:20:23
2	Se 196.026†	351.9	350.9	546.58 µg/L	546.58 ppb	13:20:23
2	SiO2†	29284.5	27471.2	5609.0 µg/L	5609.0 ppb	13:20:03
2	Si 251.611†	31997.9	32345.0	2620.1 µg/L	2620.1 ppb	13:20:03
2	Sn 189.927†	941.7	936.7	530.53 µg/L	530.53 ppb	13:20:23
2	Ti 334.940†	210368.9	213803.6	516.50 µg/L	516.50 ppb	13:19:57
2	Tl 190.801†	285.1	315.2	529.47 µg/L	529.47 ppb	13:20:23
2	U 409.014†	5373.3	5665.3	525.56 µg/L	525.56 ppb	13:20:03
2	V 292.402†	42729.0	43684.9	531.64 µg/L	531.64 ppb	13:20:03
2	Zn 213.857†	18860.6	18599.4	519.14 µg/L	519.14 ppb	13:20:03
3	Sc RADIAL	76259.9	76259.9	97.2 %		13:18:52
3	Al 396.153Radial†	7514.6	7762.9	5018.8 µg/L	5018.8 ppb	13:18:52
3	Ca 317.933Radial†	6704.6	6652.7	4793.5 µg/L	4793.5 ppb	13:19:12
3	Fe 238.204 Radial†	385.9	380.8	5053.0 µg/L	5053.0 ppb	13:19:12
3	K 766.490 Radial†	8337.8	8181.9	5162.0 µg/L	5162.0 ppb	13:18:52
3	Mg 279.077 IEC†	490.9	497.0	5102.8 µg/L	5102.8 ppb	13:19:12
3	Na 589.592 Radial†	36553.8	37064.5	9867.8 µg/L	9867.8 ppb	13:18:52
3	Sr 421.552†	82998.3	84781.0	507.15 µg/L	507.15 ppb	13:18:52
3	Sc 361.383	1918854.1	1918854.1	97.086 %		13:20:30
3	Y 371.029	1207979.6	1207979.6	96.707 %		13:20:30
3	Ag 328.068†	53817.8	55525.9	504.70 µg/L	504.70 ppb	13:20:36
3	As 188.979†	197.0	205.7	447.47 µg/L	447.47 ppb	13:20:57
3	B 249.677†	10126.3	10060.3	474.65 µg/L	474.65 ppb	13:20:36
3	Ba 233.527†	16853.5	17383.3	486.44 µg/L	486.44 ppb	13:20:36
3	Be 313.107†	704074.0	721375.3	485.18 µg/L	485.18 ppb	13:20:30
3	Cd 226.502†	16282.6	16896.7	478.65 µg/L	478.65 ppb	13:20:36
3	Co 228.616†	8736.0	9047.6	480.68 µg/L	480.68 ppb	13:20:36
3	Cr 267.716†	20347.8	21060.7	472.21 µg/L	472.21 ppb	13:20:36
3	Cu 324.752†	68406.3	66559.8	488.74 µg/L	488.74 ppb	13:20:36
3	Mn 257.610†	134382.5	138564.3	491.61 µg/L	491.61 ppb	13:20:30
3	Mo 202.031†	3505.5	3598.2	436.09 µg/L	436.09 ppb	13:20:57
3	Ni 231.604†	8045.3	7955.4	481.18 µg/L	481.18 ppb	13:20:36
3	P 214.914†	1171.6	986.9	2226.7 µg/L	2226.7 ppb	13:20:57
3	Pb 220.353†	1659.4	1648.0	462.34 µg/L	462.34 ppb	13:20:57
3	S 181.975 Axial†	187.2	169.7	943.27 µg/L	943.27 ppb	13:20:57
3	Sb 206.836†	436.2	425.3	451.17 µg/L	451.17 ppb	13:20:57
3	Se 196.026†	298.4	299.4	469.02 µg/L	469.02 ppb	13:20:57
3	SiO2†	27472.7	25908.0	5289.8 µg/L	5289.8 ppb	13:20:36
3	Si 251.611†	29777.5	30389.0	2461.6 µg/L	2461.6 ppb	13:20:36
3	Sn 189.927†	781.1	781.0	442.75 µg/L	442.75 ppb	13:20:57
3	Ti 334.940†	196664.0	201863.6	487.64 µg/L	487.64 ppb	13:20:30
3	Tl 190.801†	253.4	285.5	479.77 µg/L	479.77 ppb	13:20:57
3	U 409.014†	4786.6	5116.5	474.56 µg/L	474.56 ppb	13:20:36
3	V 292.402†	38869.8	40152.0	488.34 µg/L	488.34 ppb	13:20:36
3	Zn 213.857†	17312.7	17200.1	480.06 µg/L	480.06 ppb	13:20:36

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1931718.8	97.737 %	0.5638			0.58%
Sc RADIAL	76087.8	97.0 %	0.19			0.20%
Y 371.029	1216175.1	97.363 %	0.5684			0.58%
Ag 328.068†	56921.9	517.48 µg/L	11.114	517.48 ppb	11.114	2.15%
QC value within limits for Ag 328.068 Recovery = 103.50%						
Al 396.153Radial†	7773.6	5024.6 µg/L	7.92	5024.6 ppb	7.92	0.16%
QC value within limits for Al 396.153Radial Recovery = 100.49%						
As 188.979†	229.9	500.15 µg/L	45.669	500.15 ppb	45.669	9.13%
QC value within limits for As 188.979 Recovery = 100.03%						
B 249.677†	10379.4	489.80 µg/L	13.255	489.80 ppb	13.255	2.71%
QC value within limits for B 249.677 Recovery = 97.96%						
Ba 233.527†	18167.7	508.40 µg/L	19.030	508.40 ppb	19.030	3.74%
QC value within limits for Ba 233.527 Recovery = 101.68%						
Be 313.107†	749580.4	504.15 µg/L	16.524	504.15 ppb	16.524	3.28%
QC value within limits for Be 313.107 Recovery = 100.83%						
Ca 317.933Radial†	6673.1	4808.3 µg/L	20.07	4808.3 ppb	20.07	0.42%
QC value within limits for Ca 317.933Radial Recovery = 96.17%						
Cd 226.502†	17735.8	502.45 µg/L	20.626	502.45 ppb	20.626	4.11%
QC value within limits for Cd 226.502 Recovery = 100.49%						
Co 228.616†	9550.9	507.46 µg/L	23.193	507.46 ppb	23.193	4.57%

QC value within limits for Co 228.616 Recovery = 101.49%						
Cr 267.716†	22621.5	507.19 µg/L	30.327	507.19 ppb	30.327	5.98%
QC value within limits for Cr 267.716 Recovery = 101.44%						
Cu 324.752†	69997.2	513.95 µg/L	21.868	513.95 ppb	21.868	4.25%
QC value within limits for Cu 324.752 Recovery = 102.79%						
Fe 238.204 Radial†	383.5	5088.9 µg/L	31.23	5088.9 ppb	31.23	0.61%
QC value within limits for Fe 238.204 Radial Recovery = 101.78%						
K 766.490 Radial†	8206.5	5177.5 µg/L	20.96	5177.5 ppb	20.96	0.40%
QC value within limits for K 766.490 Radial Recovery = 103.55%						
Mg 279.077 IEC†	501.8	5152.7 µg/L	45.50	5152.7 ppb	45.50	0.88%
QC value within limits for Mg 279.077 IEC Recovery = 103.05%						
Mn 257.610†	143758.5	510.03 µg/L	16.018	510.03 ppb	16.018	3.14%
QC value within limits for Mn 257.610 Recovery = 102.01%						
Mo 202.031†	4050.5	490.89 µg/L	47.569	490.89 ppb	47.569	9.69%
QC value within limits for Mo 202.031 Recovery = 98.18%						
Na 589.592 Radial†	37028.6	9858.3 µg/L	20.74	9858.3 ppb	20.74	0.21%
QC value within limits for Na 589.592 Radial Recovery = 98.58%						
Ni 231.604†	8395.1	507.77 µg/L	23.063	507.77 ppb	23.063	4.54%
QC value within limits for Ni 231.604 Recovery = 101.55%						
P 214.914†	1095.5	2475.0 µg/L	215.43	2475.0 ppb	215.43	8.70%
QC value within limits for P 214.914 Recovery = 99.00%						
Pb 220.353†	1804.1	506.21 µg/L	37.996	506.21 ppb	37.996	7.51%
QC value within limits for Pb 220.353 Recovery = 101.24%						
S 181.975 Axial†	185.3	1030.2 µg/L	76.58	1030.2 ppb	76.58	7.43%
QC value within limits for S 181.975 Axial Recovery = 103.02%						
Sb 206.836†	468.6	497.50 µg/L	40.161	497.50 ppb	40.161	8.07%
QC value within limits for Sb 206.836 Recovery = 99.50%						
Se 196.026†	332.4	518.84 µg/L	43.233	518.84 ppb	43.233	8.33%
QC value within limits for Se 196.026 Recovery = 103.77%						
SiO2†	26911.3	5494.6 µg/L	177.80	5494.6 ppb	177.80	3.24%
QC value within limits for SiO2 Recovery = 102.75%						
Si 251.611†	31640.1	2563.0 µg/L	88.01	2563.0 ppb	88.01	3.43%
QC value within limits for Si 251.611 Recovery = 102.52%						
Sn 189.927†	885.7	501.78 µg/L	51.126	501.78 ppb	51.126	10.19%
QC value within limits for Sn 189.927 Recovery = 100.36%						
Sr 421.552†	84823.1	507.40 µg/L	0.661	507.40 ppb	0.661	0.13%
QC value within limits for Sr 421.552 Recovery = 101.48%						
Ti 334.940†	210239.4	507.89 µg/L	17.596	507.89 ppb	17.596	3.46%
QC value within limits for Ti 334.940 Recovery = 101.58%						
Tl 190.801†	306.4	514.74 µg/L	30.410	514.74 ppb	30.410	5.91%
QC value within limits for Tl 190.801 Recovery = 102.95%						
U 409.014†	5472.3	507.63 µg/L	28.669	507.63 ppb	28.669	5.65%
QC value within limits for U 409.014 Recovery = 101.53%						
V 292.402†	42450.5	516.53 µg/L	24.440	516.53 ppb	24.440	4.73%
QC value within limits for V 292.402 Recovery = 103.31%						
Zn 213.857†	18127.9	505.97 µg/L	22.445	505.97 ppb	22.445	4.44%
QC value within limits for Zn 213.857 Recovery = 101.19%						

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 13:21:06

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	74188.5	74188.5	94.5 %		13:21:39
1	Al 396.153Radial†	-15.4	13.2	8.5253 µg/L	8.5253 ppb	13:21:39
1	Ca 317.933Radial†	236.3	2.8	2.0188 µg/L	2.0188 ppb	13:21:59
1	Fe 238.204 Radial†	16.9	1.5	19.825 µg/L	19.825 ppb	13:21:59
1	K 766.490 Radial†	351.7	-26.6	-16.791 µg/L	-16.791 ppb	13:21:39
1	Mg 279.077 IEC†	7.3	-0.4	-4.2242 µg/L	-4.2242 ppb	13:21:59
1	Na 589.592 Radial†	366.2	-166.3	-44.266 µg/L	-44.266 ppb	13:21:39
1	Sr 421.552†	618.8	20.6	0.1231 µg/L	0.1231 ppb	13:21:39
1	Sc 361.383	1927315.2	1927315.2	97.514 %		13:23:01
1	Y 371.029	1217985.9	1217985.9	97.508 %		13:23:01
1	Ag 328.068†	-100.3	-10.3	-0.0927 µg/L	-0.0927 ppb	13:23:06
1	As 188.979†	-0.9	1.8	3.9321 µg/L	3.9321 ppb	13:23:27
1	B 249.677†	170.1	-195.5	-9.2677 µg/L	-9.2677 ppb	13:23:27
1	Ba 233.527†	-18.9	4.5	0.1262 µg/L	0.1262 ppb	13:23:27
1	Be 313.107†	3908.5	174.4	0.1172 µg/L	0.1172 ppb	13:23:06
1	Cd 226.502†	-108.3	14.2	0.3997 µg/L	0.3997 ppb	13:23:27
1	Co 228.616†	-47.9	0.2	0.0096 µg/L	0.0096 ppb	13:23:27
1	Cr 267.716†	-49.5	51.3	1.1502 µg/L	1.1502 ppb	13:23:06
1	Cu 324.752†	3772.4	-31.3	-0.2270 µg/L	-0.2270 ppb	13:23:06
1	Mn 257.610†	-13.3	134.2	0.4784 µg/L	0.4784 ppb	13:23:27
1	Mo 202.031†	13.4	1.2	0.1434 µg/L	0.1434 ppb	13:23:27
1	Ni 231.604†	327.0	4.0	0.2406 µg/L	0.2406 ppb	13:23:27
1	P 214.914†	227.1	13.1	30.102 µg/L	30.102 ppb	13:23:27
1	Pb 220.353†	64.8	5.3	1.4808 µg/L	1.4808 ppb	13:23:27
1	S 181.975 Axial†	27.1	4.7	26.016 µg/L	26.016 ppb	13:23:27
1	Sb 206.836†	27.2	3.9	4.1155 µg/L	4.1155 ppb	13:23:27
1	Se 196.026†	5.7	-2.1	-3.1326 µg/L	-3.1326 ppb	13:23:27
1	SiO2†	2298.4	-32.4	-6.6127 µg/L	-6.6127 ppb	13:23:06
1	Si 251.611†	314.3	39.9	3.2311 µg/L	3.2311 ppb	13:23:27
1	Sn 189.927†	24.6	1.8	1.0089 µg/L	1.0089 ppb	13:23:27
1	Ti 334.940†	833.8	151.2	0.3658 µg/L	0.3658 ppb	13:23:06
1	Tl 190.801†	-19.3	4.8	7.9379 µg/L	7.9379 ppb	13:23:27
1	U 409.014†	-180.1	1.6	0.1413 µg/L	0.1413 ppb	13:23:06
1	V 292.402†	-122.8	-10.6	-0.1228 µg/L	-0.1228 ppb	13:23:06
1	Zn 213.857†	721.6	107.8	3.0285 µg/L	3.0285 ppb	13:23:27
2	Sc RADIAL	74669.7	74669.7	95.1 %		13:22:05
2	Al 396.153Radial†	-22.9	5.5	3.5002 µg/L	3.5002 ppb	13:22:05
2	Ca 317.933Radial†	232.3	-3.0	-2.1908 µg/L	-2.1908 ppb	13:22:25
2	Fe 238.204 Radial†	18.5	3.1	41.085 µg/L	41.085 ppb	13:22:25
2	K 766.490 Radial†	385.6	6.6	4.1649 µg/L	4.1649 ppb	13:22:05
2	Mg 279.077 IEC†	9.4	1.7	17.396 µg/L	17.396 ppb	13:22:25
2	Na 589.592 Radial†	371.1	-163.7	-43.573 µg/L	-43.573 ppb	13:22:05
2	Sr 421.552†	654.6	54.0	0.3228 µg/L	0.3228 ppb	13:22:05
2	Sc 361.383	1918473.8	1918473.8	97.066 %		13:23:33
2	Y 371.029	1211992.9	1211992.9	97.029 %		13:23:33
2	Ag 328.068†	-121.3	-32.4	-0.2893 µg/L	-0.2893 ppb	13:23:38
2	As 188.979†	-1.5	1.2	2.6370 µg/L	2.6370 ppb	13:23:59
2	B 249.677†	167.3	-197.6	-9.3787 µg/L	-9.3787 ppb	13:23:59
2	Ba 233.527†	-32.1	-9.1	-0.2548 µg/L	-0.2548 ppb	13:23:59
2	Be 313.107†	4009.9	297.3	0.1999 µg/L	0.1999 ppb	13:23:38
2	Cd 226.502†	-113.9	8.0	0.2221 µg/L	0.2221 ppb	13:23:59
2	Co 228.616†	-46.5	1.4	0.0778 µg/L	0.0778 ppb	13:23:59
2	Cr 267.716†	-50.0	50.7	1.1357 µg/L	1.1357 ppb	13:23:38
2	Cu 324.752†	3786.5	1.0	0.0131 µg/L	0.0131 ppb	13:23:38
2	Mn 257.610†	-11.1	136.5	0.4885 µg/L	0.4885 ppb	13:23:59
2	Mo 202.031†	25.7	13.9	1.6844 µg/L	1.6844 ppb	13:23:59
2	Ni 231.604†	340.6	19.5	1.1788 µg/L	1.1788 ppb	13:23:59
2	P 214.914†	227.5	14.5	33.428 µg/L	33.428 ppb	13:23:59
2	Pb 220.353†	60.9	1.5	0.4416 µg/L	0.4416 ppb	13:23:59

2	S 181.975 Axial†	23.5	1.1	5.9613 µg/L	5.9613 ppb	13:23:59
2	Sb 206.836†	23.9	0.6	0.6874 µg/L	0.6874 ppb	13:23:59
2	Se 196.026†	8.7	1.1	1.7501 µg/L	1.7501 ppb	13:23:59
2	SiO2†	2292.9	-27.2	-5.5542 µg/L	-5.5542 ppb	13:23:38
2	Si 251.611†	319.0	46.2	3.7403 µg/L	3.7403 ppb	13:23:59
2	Sn 189.927†	22.4	-0.4	-0.2347 µg/L	-0.2347 ppb	13:23:59
2	Ti 334.940†	795.0	115.2	0.2771 µg/L	0.2771 ppb	13:23:38
2	Tl 190.801†	-22.5	1.4	2.2595 µg/L	2.2595 ppb	13:23:59
2	U 409.014†	-244.7	-65.9	-6.1324 µg/L	-6.1324 ppb	13:23:38
2	V 292.402†	-110.1	1.9	0.0340 µg/L	0.0340 ppb	13:23:38
2	Zn 213.857†	702.3	91.3	2.5574 µg/L	2.5574 ppb	13:23:59
3	Sc RADIAL	73863.0	73863.0	94.1 %		13:22:30
3	Al 396.153Radial†	-46.7	-20.1	-13.046 µg/L	-13.046 ppb	13:22:30
3	Ca 317.933Radial†	248.2	16.5	11.892 µg/L	11.892 ppb	13:22:51
3	Fe 238.204 Radial†	17.4	2.1	27.894 µg/L	27.894 ppb	13:22:51
3	K 766.490 Radial†	417.7	45.1	28.473 µg/L	28.473 ppb	13:22:30
3	Mg 279.077 IEC†	9.4	1.8	18.277 µg/L	18.277 ppb	13:22:51
3	Na 589.592 Radial†	371.2	-159.3	-42.417 µg/L	-42.417 ppb	13:22:30
3	Sr 421.552†	651.4	58.1	0.3477 µg/L	0.3477 ppb	13:22:30
3	Sc 361.383	1915169.0	1915169.0	96.899 %		13:24:05
3	Y 371.029	1210927.9	1210927.9	96.943 %		13:24:05
3	Ag 328.068†	-138.8	-50.6	-0.4534 µg/L	-0.4534 ppb	13:24:11
3	As 188.979†	-1.6	1.1	2.3772 µg/L	2.3772 ppb	13:24:31
3	B 249.677†	186.1	-177.9	-8.4388 µg/L	-8.4388 ppb	13:24:31
3	Ba 233.527†	-3.4	20.5	0.5726 µg/L	0.5726 ppb	13:24:31
3	Be 313.107†	3971.4	264.7	0.1780 µg/L	0.1780 ppb	13:24:11
3	Cd 226.502†	-91.2	31.2	0.8819 µg/L	0.8819 ppb	13:24:31
3	Co 228.616†	-36.7	11.4	0.6095 µg/L	0.6095 ppb	13:24:31
3	Cr 267.716†	-86.5	12.9	0.2893 µg/L	0.2893 ppb	13:24:11
3	Cu 324.752†	3809.5	31.5	0.2346 µg/L	0.2346 ppb	13:24:11
3	Mn 257.610†	144.3	296.8	1.0548 µg/L	1.0548 ppb	13:24:31
3	Mo 202.031†	22.5	10.7	1.2938 µg/L	1.2938 ppb	13:24:31
3	Ni 231.604†	338.7	18.1	1.0968 µg/L	1.0968 ppb	13:24:31
3	P 214.914†	234.6	22.3	51.282 µg/L	51.282 ppb	13:24:31
3	Pb 220.353†	66.5	7.5	2.1165 µg/L	2.1165 ppb	13:24:31
3	S 181.975 Axial†	24.2	1.9	10.331 µg/L	10.331 ppb	13:24:31
3	Sb 206.836†	30.8	7.8	8.2544 µg/L	8.2544 ppb	13:24:31
3	Se 196.026†	10.8	3.2	4.8637 µg/L	4.8637 ppb	13:24:31
3	SiO2†	2279.8	-36.7	-7.4915 µg/L	-7.4915 ppb	13:24:11
3	Si 251.611†	405.1	135.7	10.990 µg/L	10.990 ppb	13:24:31
3	Sn 189.927†	27.6	5.1	2.8560 µg/L	2.8560 ppb	13:24:31
3	Ti 334.940†	753.2	73.5	0.1763 µg/L	0.1763 ppb	13:24:11
3	Tl 190.801†	-19.0	4.9	8.1354 µg/L	8.1354 ppb	13:24:31
3	U 409.014†	-256.7	-78.7	-7.3221 µg/L	-7.3221 ppb	13:24:11
3	V 292.402†	-89.0	23.5	0.2870 µg/L	0.2870 ppb	13:24:11
3	Zn 213.857†	730.4	121.5	3.4081 µg/L	3.4081 ppb	13:24:31

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1920319.3	97.160 %	0.3177			0.33%
Sc RADIAL	74240.4	94.6 %	0.52			0.55%
Y 371.029	1213635.6	97.160 %	0.3046			0.31%
Ag 328.068†	-31.1	-0.2785 µg/L	0.18064	-0.2785 ppb	0.18064	64.87%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-0.5	-0.3400 µg/L	11.28661	-0.3400 ppb	11.28661	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.4	2.9821 µg/L	0.83290	2.9821 ppb	0.83290	27.93%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-190.3	-9.0284 µg/L	0.51360	-9.0284 ppb	0.51360	5.69%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.3	0.1480 µg/L	0.41417	0.1480 ppb	0.41417	279.87%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	245.5	0.1651 µg/L	0.04285	0.1651 ppb	0.04285	25.96%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	5.4	3.9068 µg/L	7.22889	3.9068 ppb	7.22889	185.04%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	17.8	0.5012 µg/L	0.34141	0.5012 ppb	0.34141	68.11%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	4.4	0.2323 µg/L	0.32845	0.2323 ppb	0.32845	141.41%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	38.3	0.8584 µg/L	0.49291	0.8584 ppb	0.49291 57.42%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	0.4	0.0069 µg/L	0.23087	0.0069 ppb	0.23087 >999.9%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	2.2	29.602 µg/L	10.7324	29.602 ppb	10.7324 36.26%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	8.4	5.2824 µg/L	22.65232	5.2824 ppb	22.65232 428.83%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	1.0	10.483 µg/L	12.7443	10.483 ppb	12.7443 121.57%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	189.1	0.6739 µg/L	0.32994	0.6739 ppb	0.32994 48.96%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	8.6	1.0405 µg/L	0.80111	1.0405 ppb	0.80111 76.99%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	-163.1	-43.419 µg/L	0.9342	-43.419 ppb	0.9342 2.15%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	13.9	0.8388 µg/L	0.51959	0.8388 ppb	0.51959 61.95%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	16.6	38.271 µg/L	11.3901	38.271 ppb	11.3901 29.76%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	4.8	1.3463 µg/L	0.84554	1.3463 ppb	0.84554 62.80%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	2.5	14.103 µg/L	10.5458	14.103 ppb	10.5458 74.78%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	4.1	4.3524 µg/L	3.78906	4.3524 ppb	3.78906 87.06%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	0.7	1.1604 µg/L	4.03064	1.1604 ppb	4.03064 347.35%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-32.1	-6.5528 µg/L	0.97005	-6.5528 ppb	0.97005 14.80%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	73.9	5.9873 µg/L	4.34037	5.9873 ppb	4.34037 72.49%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	2.1	1.2101 µg/L	1.55513	1.2101 ppb	1.55513 128.52%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	44.2	0.2645 µg/L	0.12314	0.2645 ppb	0.12314 46.55%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	113.3	0.2730 µg/L	0.09479	0.2730 ppb	0.09479 34.72%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	3.7	6.1109 µg/L	3.33689	6.1109 ppb	3.33689 54.61%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	-47.7	-4.4378 µg/L	4.00993	-4.4378 ppb	4.00993 90.36%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	4.9	0.0661 µg/L	0.20676	0.0661 ppb	0.20676 312.97%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	106.9	2.9980 µg/L	0.42616	2.9980 ppb	0.42616 14.21%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 15
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 1/29/2010 13:46:15
 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	76966.9	76966.9	98.1 %		13:46:51
1	Al 396.153Radial†	7590.5	7769.3	5021.1 µg/L	5021.1 ppb	13:46:51
1	Ca 317.933Radial†	6802.3	6688.9	4819.6 µg/L	4819.6 ppb	13:47:11
1	Fe 238.204 Radial†	392.3	383.7	5091.8 µg/L	5091.8 ppb	13:47:11
1	K 766.490 Radial†	8444.1	8211.5	5180.7 µg/L	5180.7 ppb	13:46:51
1	Mg 279.077 IEC†	499.3	501.0	5145.0 µg/L	5145.0 ppb	13:47:11
1	Na 589.592 Radial†	36800.3	36970.3	9842.8 µg/L	9842.8 ppb	13:46:51
1	Sr 421.552†	84026.2	85044.6	508.73 µg/L	508.73 ppb	13:46:51
1	Sc 361.383	1942583.5	1942583.5	98.286 %		13:48:14
1	Y 371.029	1222529.7	1222529.7	97.872 %		13:48:14
1	Ag 328.068†	56593.2	57672.6	524.36 µg/L	524.36 ppb	13:48:20
1	As 188.979†	244.8	251.7	547.74 µg/L	547.74 ppb	13:48:41
1	B 249.677†	10723.9	10541.0	497.48 µg/L	497.48 ppb	13:48:20
1	Ba 233.527†	18345.9	18689.7	523.01 µg/L	523.01 ppb	13:48:20
1	Be 313.107†	765027.4	774532.8	520.93 µg/L	520.93 ppb	13:48:14
1	Cd 226.502†	17892.8	18330.0	519.30 µg/L	519.30 ppb	13:48:20
1	Co 228.616†	9627.7	9844.9	523.10 µg/L	523.10 ppb	13:48:20
1	Cr 267.716†	23017.6	23521.1	527.36 µg/L	527.36 ppb	13:48:20
1	Cu 324.752†	74223.2	71617.4	525.83 µg/L	525.83 ppb	13:48:20
1	Mn 257.610†	143219.2	145864.2	517.49 µg/L	517.49 ppb	13:48:20
1	Mo 202.031†	4265.6	4327.4	524.44 µg/L	524.44 ppb	13:48:41
1	Ni 231.604†	8827.6	8650.1	523.19 µg/L	523.19 ppb	13:48:20
1	P 214.914†	1377.7	1181.8	2673.5 µg/L	2673.5 ppb	13:48:41
1	Pb 220.353†	1933.6	1906.2	534.90 µg/L	534.90 ppb	13:48:41
1	S 181.975 Axial†	205.1	185.5	1031.4 µg/L	1031.4 ppb	13:48:41
1	Sb 206.836†	510.2	495.1	525.80 µg/L	525.80 ppb	13:48:41
1	Se 196.026†	338.3	336.3	524.64 µg/L	524.64 ppb	13:48:41
1	SiO2†	29243.8	27364.3	5587.1 µg/L	5587.1 ppb	13:48:20
1	Si 251.611†	31948.1	32222.7	2610.2 µg/L	2610.2 ppb	13:48:20
1	Sn 189.927†	970.6	964.0	545.91 µg/L	545.91 ppb	13:48:41
1	Ti 334.940†	213658.2	216679.7	523.46 µg/L	523.46 ppb	13:48:14
1	Tl 190.801†	287.2	316.8	532.11 µg/L	532.11 ppb	13:48:41
1	U 409.014†	5290.4	5568.9	516.60 µg/L	516.60 ppb	13:48:20
1	V 292.402†	42864.1	43726.8	532.21 µg/L	532.21 ppb	13:48:20
1	Zn 213.857†	18985.0	18683.8	521.51 µg/L	521.51 ppb	13:48:20
2	Sc RADIAL	76890.1	76890.1	98.0 %		13:47:17
2	Al 396.153Radial†	7594.4	7781.0	5028.7 µg/L	5028.7 ppb	13:47:17
2	Ca 317.933Radial†	6814.5	6708.3	4833.6 µg/L	4833.6 ppb	13:47:37
2	Fe 238.204 Radial†	396.7	388.6	5156.9 µg/L	5156.9 ppb	13:47:37
2	K 766.490 Radial†	8406.6	8181.8	5161.9 µg/L	5161.9 ppb	13:47:17
2	Mg 279.077 IEC†	501.3	503.5	5170.4 µg/L	5170.4 ppb	13:47:37
2	Na 589.592 Radial†	36848.4	37056.9	9865.8 µg/L	9865.8 ppb	13:47:17
2	Sr 421.552†	84109.9	85215.5	509.75 µg/L	509.75 ppb	13:47:17
2	Sc 361.383	1931486.6	1931486.6	97.725 %		13:48:47
2	Y 371.029	1216096.9	1216096.9	97.357 %		13:48:47
2	Ag 328.068†	56681.6	58093.9	528.20 µg/L	528.20 ppb	13:48:53
2	As 188.979†	236.9	245.1	533.35 µg/L	533.35 ppb	13:49:13
2	B 249.677†	10752.7	10633.1	501.82 µg/L	501.82 ppb	13:48:53
2	Ba 233.527†	18365.0	18816.6	526.56 µg/L	526.56 ppb	13:48:53
2	Be 313.107†	758553.4	772380.0	519.48 µg/L	519.48 ppb	13:48:47
2	Cd 226.502†	17917.4	18459.9	522.97 µg/L	522.97 ppb	13:48:53
2	Co 228.616†	9635.7	9909.3	526.53 µg/L	526.53 ppb	13:48:53
2	Cr 267.716†	23122.7	23763.2	532.79 µg/L	532.79 ppb	13:48:53
2	Cu 324.752†	74526.7	72361.8	531.30 µg/L	531.30 ppb	13:48:53
2	Mn 257.610†	143449.8	146937.4	521.30 µg/L	521.30 ppb	13:48:53
2	Mo 202.031†	4229.9	4315.8	523.03 µg/L	523.03 ppb	13:49:13
2	Ni 231.604†	8849.6	8724.3	527.68 µg/L	527.68 ppb	13:48:53
2	P 214.914†	1358.0	1169.8	2645.0 µg/L	2645.0 ppb	13:49:13
2	Pb 220.353†	1918.8	1902.3	533.79 µg/L	533.79 ppb	13:49:13

2	S 181.975 Axial†	210.4	192.1	1068.1 µg/L	1068.1 ppb	13:49:13
2	Sb 206.836†	500.2	487.9	518.10 µg/L	518.10 ppb	13:49:13
2	Se 196.026†	341.9	341.9	533.39 µg/L	533.39 ppb	13:49:13
2	SiO2†	29327.6	27621.0	5639.5 µg/L	5639.5 ppb	13:48:53
2	Si 251.611†	32110.0	32575.1	2638.7 µg/L	2638.7 ppb	13:48:53
2	Sn 189.927†	952.1	950.8	538.47 µg/L	538.47 ppb	13:49:13
2	Ti 334.940†	212087.4	216321.2	522.59 µg/L	522.59 ppb	13:48:47
2	Tl 190.801†	288.7	319.9	537.38 µg/L	537.38 ppb	13:49:13
2	U 409.014†	5431.9	5744.6	532.92 µg/L	532.92 ppb	13:48:53
2	V 292.402†	42994.8	44111.1	536.85 µg/L	536.85 ppb	13:48:53
2	Zn 213.857†	19049.2	18860.4	526.44 µg/L	526.44 ppb	13:48:53
3	Sc RADIAL	76270.3	76270.3	97.2 %		13:47:43
3	Al 396.153Radial†	7517.9	7765.3	5020.3 µg/L	5020.3 ppb	13:47:43
3	Ca 317.933Radial†	6791.7	6741.3	4857.4 µg/L	4857.4 ppb	13:48:03
3	Fe 238.204 Radial†	393.4	388.4	5153.8 µg/L	5153.8 ppb	13:48:03
3	K 766.490 Radial†	8389.6	8234.0	5194.9 µg/L	5194.9 ppb	13:47:43
3	Mg 279.077 IEC†	499.4	505.7	5192.1 µg/L	5192.1 ppb	13:48:03
3	Na 589.592 Radial†	36589.0	37095.7	9876.1 µg/L	9876.1 ppb	13:47:43
3	Sr 421.552†	83372.4	85154.3	509.39 µg/L	509.39 ppb	13:47:43
3	Sc 361.383	1944783.8	1944783.8	98.398 %		13:49:20
3	Y 371.029	1224075.8	1224075.8	97.996 %		13:49:20
3	Ag 328.068†	54473.4	55453.1	504.06 µg/L	504.06 ppb	13:49:26
3	As 188.979†	210.3	216.4	470.92 µg/L	470.92 ppb	13:49:46
3	B 249.677†	10268.1	10065.3	474.84 µg/L	474.84 ppb	13:49:26
3	Ba 233.527†	17140.5	17443.6	488.12 µg/L	488.12 ppb	13:49:26
3	Be 313.107†	725578.2	733560.6	493.38 µg/L	493.38 ppb	13:49:20
3	Cd 226.502†	16707.9	17105.2	484.55 µg/L	484.55 ppb	13:49:26
3	Co 228.616†	8877.5	9071.4	481.94 µg/L	481.94 ppb	13:49:26
3	Cr 267.716†	20745.1	21185.1	474.99 µg/L	474.99 ppb	13:49:26
3	Cu 324.752†	69108.7	66334.2	487.10 µg/L	487.10 ppb	13:49:26
3	Mn 257.610†	132272.7	134574.6	477.48 µg/L	477.48 ppb	13:49:26
3	Mo 202.031†	3600.6	3646.7	441.97 µg/L	441.97 ppb	13:49:46
3	Ni 231.604†	8190.6	7992.6	483.43 µg/L	483.43 ppb	13:49:26
3	P 214.914†	1210.5	1010.4	2281.0 µg/L	2281.0 ppb	13:49:46
3	Pb 220.353†	1700.2	1666.7	467.58 µg/L	467.58 ppb	13:49:46
3	S 181.975 Axial†	190.8	170.7	949.16 µg/L	949.16 ppb	13:49:46
3	Sb 206.836†	446.3	429.6	455.79 µg/L	455.79 ppb	13:49:46
3	Se 196.026†	306.1	303.1	475.01 µg/L	475.01 ppb	13:49:46
3	SiO2†	27735.3	25797.6	5267.3 µg/L	5267.3 ppb	13:49:26
3	Si 251.611†	30260.5	30470.9	2468.3 µg/L	2468.3 ppb	13:49:26
3	Sn 189.927†	805.7	795.3	450.85 µg/L	450.85 ppb	13:49:46
3	Ti 334.940†	201755.0	204336.7	493.62 µg/L	493.62 ppb	13:49:20
3	Tl 190.801†	262.0	290.8	488.53 µg/L	488.53 ppb	13:49:46
3	U 409.014†	4850.1	5115.3	474.44 µg/L	474.44 ppb	13:49:26
3	V 292.402†	39530.0	40289.1	490.04 µg/L	490.04 ppb	13:49:26
3	Zn 213.857†	17647.6	17302.7	482.92 µg/L	482.92 ppb	13:49:26

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1939618.0	98.136 %	0.3606			0.37%
Sc RADIAL	76709.1	97.7 %	0.49			0.50%
Y 371.029	1220900.8	97.742 %	0.3388			0.35%
Ag 328.068†	57073.2	518.87 µg/L	12.972	518.87 ppb	12.972	2.50%
QC value within limits for Ag 328.068 Recovery = 103.77%						
Al 396.153Radial†	7771.8	5023.4 µg/L	4.67	5023.4 ppb	4.67	0.09%
QC value within limits for Al 396.153Radial Recovery = 100.47%						
As 188.979†	237.8	517.34 µg/L	40.839	517.34 ppb	40.839	7.89%
QC value within limits for As 188.979 Recovery = 103.47%						
B 249.677†	10413.1	491.38 µg/L	14.490	491.38 ppb	14.490	2.95%
QC value within limits for B 249.677 Recovery = 98.28%						
Ba 233.527†	18316.6	512.56 µg/L	21.239	512.56 ppb	21.239	4.14%
QC value within limits for Ba 233.527 Recovery = 102.51%						
Be 313.107†	760157.8	511.26 µg/L	15.508	511.26 ppb	15.508	3.03%
QC value within limits for Be 313.107 Recovery = 102.25%						
Ca 317.933Radial†	6712.8	4836.9 µg/L	19.11	4836.9 ppb	19.11	0.40%
QC value within limits for Ca 317.933Radial Recovery = 96.74%						
Cd 226.502†	17965.1	508.94 µg/L	21.204	508.94 ppb	21.204	4.17%
QC value within limits for Cd 226.502 Recovery = 101.79%						
Co 228.616†	9608.5	510.52 µg/L	24.811	510.52 ppb	24.811	4.86%

QC value within limits for Co 228.616 Recovery = 102.10%						
Cr 267.716†	22823.1	511.71 µg/L	31.917	511.71 ppb	31.917	6.24%
QC value within limits for Cr 267.716 Recovery = 102.34%						
Cu 324.752†	70104.5	514.74 µg/L	24.094	514.74 ppb	24.094	4.68%
QC value within limits for Cu 324.752 Recovery = 102.95%						
Fe 238.204 Radial†	386.9	5134.2 µg/L	36.71	5134.2 ppb	36.71	0.71%
QC value within limits for Fe 238.204 Radial Recovery = 102.68%						
K 766.490 Radial†	8209.1	5179.1 µg/L	16.53	5179.1 ppb	16.53	0.32%
QC value within limits for K 766.490 Radial Recovery = 103.58%						
Mg 279.077 IEC†	503.4	5169.2 µg/L	23.56	5169.2 ppb	23.56	0.46%
QC value within limits for Mg 279.077 IEC Recovery = 103.38%						
Mn 257.610†	142458.8	505.43 µg/L	24.275	505.43 ppb	24.275	4.80%
QC value within limits for Mn 257.610 Recovery = 101.09%						
Mo 202.031†	4096.6	496.48 µg/L	47.213	496.48 ppb	47.213	9.51%
QC value within limits for Mo 202.031 Recovery = 99.30%						
Na 589.592 Radial†	37040.9	9861.6 µg/L	17.09	9861.6 ppb	17.09	0.17%
QC value within limits for Na 589.592 Radial Recovery = 98.62%						
Ni 231.604†	8455.7	511.44 µg/L	24.355	511.44 ppb	24.355	4.76%
QC value within limits for Ni 231.604 Recovery = 102.29%						
P 214.914†	1120.7	2533.1 µg/L	218.86	2533.1 ppb	218.86	8.64%
QC value within limits for P 214.914 Recovery = 101.33%						
Pb 220.353†	1825.1	512.09 µg/L	38.547	512.09 ppb	38.547	7.53%
QC value within limits for Pb 220.353 Recovery = 102.42%						
S 181.975 Axial†	182.8	1016.2 µg/L	60.90	1016.2 ppb	60.90	5.99%
QC value within limits for S 181.975 Axial Recovery = 101.62%						
Sb 206.836†	470.8	499.90 µg/L	38.388	499.90 ppb	38.388	7.68%
QC value within limits for Sb 206.836 Recovery = 99.98%						
Se 196.026†	327.1	511.02 µg/L	31.485	511.02 ppb	31.485	6.16%
QC value within limits for Se 196.026 Recovery = 102.20%						
SiO2†	26927.6	5498.0 µg/L	201.52	5498.0 ppb	201.52	3.67%
QC value within limits for SiO2 Recovery = 102.81%						
Si 251.611†	31756.2	2572.4 µg/L	91.29	2572.4 ppb	91.29	3.55%
QC value within limits for Si 251.611 Recovery = 102.90%						
Sn 189.927†	903.4	511.75 µg/L	52.867	511.75 ppb	52.867	10.33%
QC value within limits for Sn 189.927 Recovery = 102.35%						
Sr 421.552†	85138.1	509.29 µg/L	0.518	509.29 ppb	0.518	0.10%
QC value within limits for Sr 421.552 Recovery = 101.86%						
Ti 334.940†	212445.9	513.22 µg/L	16.983	513.22 ppb	16.983	3.31%
QC value within limits for Ti 334.940 Recovery = 102.64%						
Tl 190.801†	309.2	519.34 µg/L	26.813	519.34 ppb	26.813	5.16%
QC value within limits for Tl 190.801 Recovery = 103.87%						
U 409.014†	5476.2	507.99 µg/L	30.182	507.99 ppb	30.182	5.94%
QC value within limits for U 409.014 Recovery = 101.60%						
V 292.402†	42709.0	519.70 µg/L	25.788	519.70 ppb	25.788	4.96%
QC value within limits for V 292.402 Recovery = 103.94%						
Zn 213.857†	18282.3	510.29 µg/L	23.832	510.29 ppb	23.832	4.67%
QC value within limits for Zn 213.857 Recovery = 102.06%						

All analyte(s) passed QC.

Sequence No.: 16

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 13:49:56

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74268.3	74268.3	94.6 %		13:50:28
1	Al 396.153Radial†	-12.0	16.8	10.855 µg/L	10.855 ppb	13:50:28
1	Ca 317.933Radial†	245.8	12.6	9.0529 µg/L	9.0529 ppb	13:50:49
1	Fe 238.204 Radial†	17.9	2.6	33.998 µg/L	33.998 ppb	13:50:49
1	K 766.490 Radial†	362.7	-15.4	-9.7151 µg/L	-9.7151 ppb	13:50:28
1	Mg 279.077 IEC†	4.5	-3.4	-34.811 µg/L	-34.811 ppb	13:50:49
1	Na 589.592 Radial†	415.6	-114.6	-30.499 µg/L	-30.499 ppb	13:50:28
1	Sr 421.552†	778.5	188.6	1.1285 µg/L	1.1285 ppb	13:50:28
1	Sc 361.383	1923590.1	1923590.1	97.325 %		13:51:51
1	Y 371.029	1214970.3	1214970.3	97.267 %		13:51:51
1	Ag 328.068†	-180.2	-92.5	-0.8354 µg/L	-0.8354 ppb	13:51:56
1	As 188.979†	0.5	3.2	7.0208 µg/L	7.0208 ppb	13:52:17
1	B 249.677†	164.6	-200.8	-9.5295 µg/L	-9.5295 ppb	13:52:17
1	Ba 233.527†	-34.6	-11.6	-0.3235 µg/L	-0.3235 ppb	13:52:17
1	Be 313.107†	3829.7	101.2	0.0681 µg/L	0.0681 ppb	13:51:56
1	Cd 226.502†	-124.0	-2.1	-0.0632 µg/L	-0.0632 ppb	13:52:17
1	Co 228.616†	-45.8	2.3	0.1213 µg/L	0.1213 ppb	13:52:17
1	Cr 267.716†	-71.4	28.8	0.6448 µg/L	0.6448 ppb	13:51:56
1	Cu 324.752†	3805.8	10.4	0.0813 µg/L	0.0813 ppb	13:51:56
1	Mn 257.610†	-59.0	87.2	0.3149 µg/L	0.3149 ppb	13:52:17
1	Mo 202.031†	17.8	5.7	0.6920 µg/L	0.6920 ppb	13:52:17
1	Ni 231.604†	335.1	12.9	0.7820 µg/L	0.7820 ppb	13:52:17
1	P 214.914†	227.7	14.1	32.407 µg/L	32.407 ppb	13:52:17
1	Pb 220.353†	58.8	-0.7	-0.1983 µg/L	-0.1983 ppb	13:52:17
1	S 181.975 Axial†	21.5	-1.0	-5.5267 µg/L	-5.5267 ppb	13:52:17
1	Sb 206.836†	29.6	6.4	6.7840 µg/L	6.7840 ppb	13:52:17
1	Se 196.026†	8.1	0.4	0.6782 µg/L	0.6782 ppb	13:52:17
1	SiO2†	2348.0	23.1	4.7222 µg/L	4.7222 ppb	13:51:56
1	Si 251.611†	293.2	18.8	1.5237 µg/L	1.5237 ppb	13:52:17
1	Sn 189.927†	23.0	0.2	0.1168 µg/L	0.1168 ppb	13:52:17
1	Ti 334.940†	703.0	18.4	0.0474 µg/L	0.0474 ppb	13:51:56
1	Tl 190.801†	-21.8	2.1	3.4734 µg/L	3.4734 ppb	13:52:17
1	U 409.014†	-258.8	-79.7	-7.4128 µg/L	-7.4128 ppb	13:51:56
1	V 292.402†	-139.0	-27.5	-0.3302 µg/L	-0.3302 ppb	13:51:56
1	Zn 213.857†	698.9	85.9	2.4111 µg/L	2.4111 ppb	13:52:17
2	Sc RADIAL	74856.2	74856.2	95.4 %		13:50:54
2	Al 396.153Radial†	-12.7	16.2	10.471 µg/L	10.471 ppb	13:50:54
2	Ca 317.933Radial†	241.1	5.6	4.0123 µg/L	4.0123 ppb	13:51:15
2	Fe 238.204 Radial†	18.1	2.6	34.444 µg/L	34.444 ppb	13:51:15
2	K 766.490 Radial†	390.9	11.2	7.0485 µg/L	7.0485 ppb	13:50:54
2	Mg 279.077 IEC†	8.6	0.9	9.1690 µg/L	9.1690 ppb	13:51:15
2	Na 589.592 Radial†	366.5	-169.5	-45.116 µg/L	-45.116 ppb	13:50:54
2	Sr 421.552†	678.2	77.0	0.4606 µg/L	0.4606 ppb	13:50:54
2	Sc 361.383	1925742.9	1925742.9	97.434 %		13:52:23
2	Y 371.029	1216665.2	1216665.2	97.403 %		13:52:23
2	Ag 328.068†	-166.9	-78.7	-0.7054 µg/L	-0.7054 ppb	13:52:28
2	As 188.979†	-1.4	1.2	2.6996 µg/L	2.6996 ppb	13:52:49
2	B 249.677†	163.7	-201.9	-9.5818 µg/L	-9.5818 ppb	13:52:49
2	Ba 233.527†	-27.1	-3.9	-0.1067 µg/L	-0.1067 ppb	13:52:49
2	Be 313.107†	3834.1	101.3	0.0681 µg/L	0.0681 ppb	13:52:28
2	Cd 226.502†	-122.6	-0.5	-0.0184 µg/L	-0.0184 ppb	13:52:49
2	Co 228.616†	-37.3	11.0	0.5879 µg/L	0.5879 ppb	13:52:49
2	Cr 267.716†	-49.4	51.5	1.1536 µg/L	1.1536 ppb	13:52:28
2	Cu 324.752†	3800.9	1.0	0.0125 µg/L	0.0125 ppb	13:52:28
2	Mn 257.610†	-48.4	98.2	0.3522 µg/L	0.3522 ppb	13:52:49
2	Mo 202.031†	17.8	5.7	0.6953 µg/L	0.6953 ppb	13:52:49
2	Ni 231.604†	320.1	-2.9	-0.1749 µg/L	-0.1749 ppb	13:52:49
2	P 214.914†	232.3	18.6	42.761 µg/L	42.761 ppb	13:52:49
2	Pb 220.353†	69.4	10.1	2.8474 µg/L	2.8474 ppb	13:52:49

2	S 181.975 Axial†	23.8	1.3	7.0782 µg/L	7.0782 ppb	13:52:49
2	Sb 206.836†	29.0	5.7	6.0440 µg/L	6.0440 ppb	13:52:49
2	Se 196.026†	12.7	5.1	7.7351 µg/L	7.7351 ppb	13:52:49
2	SiO2†	2334.1	6.2	1.2561 µg/L	1.2561 ppb	13:52:28
2	Si 251.611†	291.3	16.5	1.3401 µg/L	1.3401 ppb	13:52:49
2	Sn 189.927†	24.3	1.4	0.8162 µg/L	0.8162 ppb	13:52:49
2	Ti 334.940†	733.6	49.0	0.1179 µg/L	0.1179 ppb	13:52:28
2	Tl 190.801†	-28.3	-4.5	-7.4858 µg/L	-7.4858 ppb	13:52:49
2	U 409.014†	-271.2	-92.1	-8.5642 µg/L	-8.5642 ppb	13:52:28
2	V 292.402†	-72.5	40.9	0.4929 µg/L	0.4929 ppb	13:52:28
2	Zn 213.857†	709.4	95.8	2.6923 µg/L	2.6923 ppb	13:52:49
3	Sc RADIAL	74951.7	74951.7	95.5 %		13:51:20
3	Al 396.153Radial†	-3.9	25.4	16.473 µg/L	16.473 ppb	13:51:20
3	Ca 317.933Radial†	233.6	-2.6	-1.8642 µg/L	-1.8642 ppb	13:51:40
3	Fe 238.204 Radial†	16.6	1.1	14.059 µg/L	14.059 ppb	13:51:40
3	K 766.490 Radial†	376.8	-4.2	-2.6403 µg/L	-2.6403 ppb	13:51:20
3	Mg 279.077 IEC†	8.5	0.8	8.0061 µg/L	8.0061 ppb	13:51:40
3	Na 589.592 Radial†	322.5	-216.0	-57.503 µg/L	-57.503 ppb	13:51:20
3	Sr 421.552†	649.6	46.2	0.2762 µg/L	0.2762 ppb	13:51:20
3	Sc 361.383	1923619.7	1923619.7	97.327 %		13:52:55
3	Y 371.029	1215048.6	1215048.6	97.273 %		13:52:55
3	Ag 328.068†	-101.4	-11.6	-0.1011 µg/L	-0.1011 ppb	13:53:01
3	As 188.979†	-0.5	2.2	4.8489 µg/L	4.8489 ppb	13:53:21
3	B 249.677†	156.3	-209.4	-9.9230 µg/L	-9.9230 ppb	13:53:21
3	Ba 233.527†	-30.9	-7.7	-0.2156 µg/L	-0.2156 ppb	13:53:21
3	Be 313.107†	3888.5	161.6	0.1086 µg/L	0.1086 ppb	13:53:01
3	Cd 226.502†	-110.8	11.4	0.3215 µg/L	0.3215 ppb	13:53:21
3	Co 228.616†	-42.3	5.9	0.3131 µg/L	0.3131 ppb	13:53:21
3	Cr 267.716†	-71.8	28.4	0.6367 µg/L	0.6367 ppb	13:53:01
3	Cu 324.752†	3784.0	-12.1	-0.0864 µg/L	-0.0864 ppb	13:53:01
3	Mn 257.610†	-52.5	93.9	0.3343 µg/L	0.3343 ppb	13:53:21
3	Mo 202.031†	10.2	-2.1	-0.2569 µg/L	-0.2569 ppb	13:53:21
3	Ni 231.604†	317.3	-5.4	-0.3284 µg/L	-0.3284 ppb	13:53:21
3	P 214.914†	219.3	5.5	12.788 µg/L	12.788 ppb	13:53:21
3	Pb 220.353†	68.8	9.6	2.6928 µg/L	2.6928 ppb	13:53:21
3	S 181.975 Axial†	21.0	-1.5	-8.5540 µg/L	-8.5540 ppb	13:53:21
3	Sb 206.836†	26.4	3.2	3.3371 µg/L	3.3371 ppb	13:53:21
3	Se 196.026†	3.9	-3.9	-5.8679 µg/L	-5.8679 ppb	13:53:21
3	SiO2†	2318.5	-7.2	-1.4650 µg/L	-1.4650 ppb	13:53:01
3	Si 251.611†	297.5	23.3	1.8865 µg/L	1.8865 ppb	13:53:21
3	Sn 189.927†	25.8	3.0	1.7189 µg/L	1.7189 ppb	13:53:21
3	Ti 334.940†	755.3	72.2	0.1739 µg/L	0.1739 ppb	13:53:01
3	Tl 190.801†	-22.2	1.7	2.9011 µg/L	2.9011 ppb	13:53:21
3	U 409.014†	-244.3	-64.7	-6.0192 µg/L	-6.0192 ppb	13:53:01
3	V 292.402†	-77.5	35.7	0.4238 µg/L	0.4238 ppb	13:53:01
3	Zn 213.857†	699.8	86.8	2.4401 µg/L	2.4401 ppb	13:53:21

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1924317.6	97.362 %	0.0625			0.06%
Sc RADIAL	74692.1	95.2 %	0.47			0.50%
Y 371.029	1215561.4	97.314 %	0.0766			0.08%
Ag 328.068†	-61.0	-0.5473 µg/L	0.39183	-0.5473 ppb	0.39183	71.59%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	19.5	12.600 µg/L	3.3597	12.600 ppb	3.3597	26.67%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.2	4.8564 µg/L	2.16058	4.8564 ppb	2.16058	44.49%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-204.0	-9.6781 µg/L	0.21372	-9.6781 ppb	0.21372	2.21%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-7.7	-0.2153 µg/L	0.10841	-0.2153 ppb	0.10841	50.36%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	121.4	0.0816 µg/L	0.02341	0.0816 ppb	0.02341	28.68%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	5.2	3.7337 µg/L	5.46387	3.7337 ppb	5.46387	146.34%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	2.9	0.0800 µg/L	0.21037	0.0800 ppb	0.21037	262.95%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	6.4	0.3408 µg/L	0.23450	0.3408 ppb	0.23450	68.81%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	36.2 0.8117 µg/L	0.29611 0.8117 ppb	0.29611 36.48%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-0.2 0.0024 µg/L	0.08430 0.0024 ppb	0.08430 >999.9%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	2.1 27.500 µg/L	11.6427 27.500 ppb	11.6427 42.34%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	-2.8 -1.7690 µg/L	8.41568 -1.7690 ppb	8.41568 475.74%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-0.6 -5.8788 µg/L	25.06319 -5.8788 ppb	25.06319 426.33%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	93.1 0.3338 µg/L	0.01866 0.3338 ppb	0.01866 5.59%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	3.1 0.3768 µg/L	0.54880 0.3768 ppb	0.54880 145.65%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	-166.7 -44.373 µg/L	13.5176 -44.373 ppb	13.5176 30.46%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	1.5 0.0929 µg/L	0.60167 0.0929 ppb	0.60167 647.75%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	12.7 29.319 µg/L	15.2235 29.319 ppb	15.2235 51.92%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	6.3 1.7806 µg/L	1.71555 1.7806 ppb	1.71555 96.35%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-0.4 -2.3342 µg/L	8.29072 -2.3342 ppb	8.29072 355.19%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	5.1 5.3884 µg/L	1.81457 5.3884 ppb	1.81457 33.68%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	0.5 0.8485 µg/L	6.80311 0.8485 ppb	6.80311 801.81%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	7.4 1.5044 µg/L	3.10106 1.5044 ppb	3.10106 206.13%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	19.5 1.5835 µg/L	0.27805 1.5835 ppb	0.27805 17.56%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	1.6 0.8840 µg/L	0.80324 0.8840 ppb	0.80324 90.87%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	103.9 0.6218 µg/L	0.44840 0.6218 ppb	0.44840 72.11%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	46.6 0.1131 µg/L	0.06341 0.1131 ppb	0.06341 56.09%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-0.2 -0.3704 µg/L	6.16876 -0.3704 ppb	6.16876 >999.9%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-78.8 -7.3320 µg/L	1.27442 -7.3320 ppb	1.27442 17.38%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	16.4 0.1955 µg/L	0.45656 0.1955 ppb	0.45656 233.52%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	89.5 2.5145 µg/L	0.15468 2.5145 ppb	0.15468 6.15%
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: 1/29/2010 14:29:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	76072.7	76072.7	96.9 %		14:29:58
1	Al 396.153Radial†	7515.5	7782.9	5029.8 µg/L	5029.8 ppb	14:29:58
1	Ca 317.933Radial†	6906.3	6877.7	4955.7 µg/L	4955.7 ppb	14:29:58
1	Fe 238.204 Radial†	392.3	388.4	5154.5 µg/L	5154.5 ppb	14:30:18
1	K 766.490 Radial†	8387.9	8254.7	5207.9 µg/L	5207.9 ppb	14:29:58
1	Mg 279.077 IEC†	491.3	498.7	5121.9 µg/L	5121.9 ppb	14:30:18
1	Na 589.592 Radial†	36491.5	37092.8	9875.4 µg/L	9875.4 ppb	14:29:58
1	Sr 421.552†	83371.7	85376.4	510.71 µg/L	510.71 ppb	14:29:58
1	Sc 361.383	1911517.0	1911517.0	96.714 %		14:31:21
1	Y 371.029	1200941.5	1200941.5	96.144 %		14:31:21
1	Ag 328.068†	56532.1	58545.2	532.29 µg/L	532.29 ppb	14:31:26
1	As 188.979†	241.6	252.6	549.53 µg/L	549.53 ppb	14:31:47
1	B 249.677†	10721.5	10715.8	505.74 µg/L	505.74 ppb	14:31:26
1	Ba 233.527†	18280.8	18925.8	529.61 µg/L	529.61 ppb	14:31:26
1	Be 313.107†	751544.6	773242.2	520.06 µg/L	520.06 ppb	14:31:21
1	Cd 226.502†	17847.0	18578.6	526.34 µg/L	526.34 ppb	14:31:26
1	Co 228.616†	9595.8	9971.1	529.82 µg/L	529.82 ppb	14:31:26
1	Cr 267.716†	22950.6	23832.4	534.34 µg/L	534.34 ppb	14:31:26
1	Cu 324.752†	74130.2	72748.6	534.13 µg/L	534.13 ppb	14:31:26
1	Mn 257.610†	142833.8	147834.0	524.48 µg/L	524.48 ppb	14:31:26
1	Mo 202.031†	4257.0	4389.0	531.91 µg/L	531.91 ppb	14:31:47
1	Ni 231.604†	8814.6	8782.6	531.21 µg/L	531.21 ppb	14:31:26
1	P 214.914†	1356.9	1183.1	2675.6 µg/L	2675.6 ppb	14:31:47
1	Pb 220.353†	1935.4	1940.0	544.37 µg/L	544.37 ppb	14:31:47
1	S 181.975 Axial†	210.6	194.6	1082.0 µg/L	1082.0 ppb	14:31:47
1	Sb 206.836†	511.6	505.0	536.32 µg/L	536.32 ppb	14:31:47
1	Se 196.026†	347.9	351.7	548.18 µg/L	548.18 ppb	14:31:47
1	SiO2†	29194.3	27796.6	5675.4 µg/L	5675.4 ppb	14:31:26
1	Si 251.611†	31915.0	32716.8	2650.2 µg/L	2650.2 ppb	14:31:26
1	Sn 189.927†	956.3	965.3	546.66 µg/L	546.66 ppb	14:31:47
1	Ti 334.940†	210901.7	217362.5	525.11 µg/L	525.11 ppb	14:31:21
1	Tl 190.801†	286.5	320.8	538.84 µg/L	538.84 ppb	14:31:47
1	U 409.014†	5483.8	5856.3	543.30 µg/L	543.30 ppb	14:31:26
1	V 292.402†	42800.6	44370.0	540.05 µg/L	540.05 ppb	14:31:26
1	Zn 213.857†	18878.6	18887.7	527.19 µg/L	527.19 ppb	14:31:26
2	Sc RADIAL	77156.0	77156.0	98.3 %		14:30:24
2	Al 396.153Radial†	7537.5	7696.4	4973.9 µg/L	4973.9 ppb	14:30:24
2	Ca 317.933Radial†	6919.3	6790.9	4893.2 µg/L	4893.2 ppb	14:30:24
2	Fe 238.204 Radial†	391.3	381.7	5065.3 µg/L	5065.3 ppb	14:30:44
2	K 766.490 Radial†	8349.8	8094.4	5106.8 µg/L	5106.8 ppb	14:30:24
2	Mg 279.077 IEC†	496.0	496.3	5096.9 µg/L	5096.9 ppb	14:30:44
2	Na 589.592 Radial†	36459.5	36531.7	9726.0 µg/L	9726.0 ppb	14:30:24
2	Sr 421.552†	83289.5	84085.2	502.99 µg/L	502.99 ppb	14:30:24
2	Sc 361.383	1906780.2	1906780.2	96.475 %		14:31:53
2	Y 371.029	1198613.9	1198613.9	95.957 %		14:31:53
2	Ag 328.068†	56237.1	58384.6	530.83 µg/L	530.83 ppb	14:31:59
2	As 188.979†	235.2	246.6	536.43 µg/L	536.43 ppb	14:32:19
2	B 249.677†	10633.6	10652.2	502.77 µg/L	502.77 ppb	14:31:59
2	Ba 233.527†	18176.4	18864.5	527.90 µg/L	527.90 ppb	14:31:59
2	Be 313.107†	753962.4	777678.8	523.05 µg/L	523.05 ppb	14:31:53
2	Cd 226.502†	17722.2	18495.1	523.98 µg/L	523.98 ppb	14:31:59
2	Co 228.616†	9540.2	9938.1	528.05 µg/L	528.05 ppb	14:31:59
2	Cr 267.716†	22821.0	23757.1	532.65 µg/L	532.65 ppb	14:31:59
2	Cu 324.752†	73924.9	72726.2	533.96 µg/L	533.96 ppb	14:31:59
2	Mn 257.610†	142050.3	147388.7	522.89 µg/L	522.89 ppb	14:31:59
2	Mo 202.031†	4210.2	4351.5	527.36 µg/L	527.36 ppb	14:32:19
2	Ni 231.604†	8774.3	8763.5	530.05 µg/L	530.05 ppb	14:31:59
2	P 214.914†	1345.3	1174.7	2656.0 µg/L	2656.0 ppb	14:32:19
2	Pb 220.353†	1911.9	1920.6	538.93 µg/L	538.93 ppb	14:32:19

2	S 181.975 Axial†	203.1	187.4	1041.9 µg/L	1041.9 ppb	14:32:19
2	Sb 206.836†	503.1	497.5	528.34 µg/L	528.34 ppb	14:32:19
2	Se 196.026†	342.8	347.4	541.29 µg/L	541.29 ppb	14:32:19
2	SiO2†	29101.6	27775.6	5671.1 µg/L	5671.1 ppb	14:31:59
2	Si 251.611†	31735.5	32612.7	2641.8 µg/L	2641.8 ppb	14:31:59
2	Sn 189.927†	946.7	957.8	542.43 µg/L	542.43 ppb	14:32:19
2	Ti 334.940†	211522.5	218547.8	527.98 µg/L	527.98 ppb	14:31:53
2	Tl 190.801†	277.6	312.2	524.56 µg/L	524.56 ppb	14:32:19
2	U 409.014†	5336.1	5717.3	530.40 µg/L	530.40 ppb	14:31:59
2	V 292.402†	42626.9	44299.8	539.15 µg/L	539.15 ppb	14:31:59
2	Zn 213.857†	18839.8	18895.9	527.44 µg/L	527.44 ppb	14:31:59
3	Sc RADIAL	76579.5	76579.5	97.6 %		14:30:50
3	Al 396.153Radial†	7547.1	7763.9	5019.1 µg/L	5019.1 ppb	14:30:50
3	Ca 317.933Radial†	6941.0	6866.1	4947.4 µg/L	4947.4 ppb	14:30:50
3	Fe 238.204 Radial†	393.2	386.6	5129.7 µg/L	5129.7 ppb	14:31:10
3	K 766.490 Radial†	8366.0	8174.9	5157.6 µg/L	5157.6 ppb	14:30:50
3	Mg 279.077 IEC†	498.7	503.0	5164.0 µg/L	5164.0 ppb	14:31:10
3	Na 589.592 Radial†	36735.6	37093.8	9875.6 µg/L	9875.6 ppb	14:30:50
3	Sr 421.552†	83881.6	85329.8	510.44 µg/L	510.44 ppb	14:30:50
3	Sc 361.383	1908851.4	1908851.4	96.580 %		14:32:25
3	Y 371.029	1200049.1	1200049.1	96.072 %		14:32:25
3	Ag 328.068†	54655.0	56683.2	515.25 µg/L	515.25 ppb	14:32:31
3	As 188.979†	206.3	216.3	470.57 µg/L	470.57 ppb	14:32:51
3	B 249.677†	10303.6	10298.6	485.92 µg/L	485.92 ppb	14:32:31
3	Ba 233.527†	17188.5	17821.2	498.69 µg/L	498.69 ppb	14:32:31
3	Be 313.107†	723254.3	745035.1	501.09 µg/L	501.09 ppb	14:32:25
3	Cd 226.502†	16729.7	17447.5	494.26 µg/L	494.26 ppb	14:32:31
3	Co 228.616†	8937.1	9303.0	494.25 µg/L	494.25 ppb	14:32:31
3	Cr 267.716†	20923.8	21767.0	488.04 µg/L	488.04 ppb	14:32:31
3	Cu 324.752†	69832.2	68405.4	502.28 µg/L	502.28 ppb	14:32:31
3	Mn 257.610†	133265.8	138133.3	490.09 µg/L	490.09 ppb	14:32:31
3	Mo 202.031†	3649.4	3766.1	456.44 µg/L	456.44 ppb	14:32:51
3	Ni 231.604†	8240.1	8200.6	496.01 µg/L	496.01 ppb	14:32:31
3	P 214.914†	1225.3	1048.8	2368.1 µg/L	2368.1 ppb	14:32:51
3	Pb 220.353†	1711.3	1710.8	479.95 µg/L	479.95 ppb	14:32:51
3	S 181.975 Axial†	192.9	176.6	981.70 µg/L	981.70 ppb	14:32:51
3	Sb 206.836†	456.0	448.2	475.53 µg/L	475.53 ppb	14:32:51
3	Se 196.026†	307.9	310.8	486.56 µg/L	486.56 ppb	14:32:51
3	SiO2†	27904.1	26502.9	5411.3 µg/L	5411.3 ppb	14:32:31
3	Si 251.611†	30404.7	31199.1	2527.3 µg/L	2527.3 ppb	14:32:31
3	Sn 189.927†	808.5	813.7	461.21 µg/L	461.21 ppb	14:32:51
3	Ti 334.940†	202326.9	208788.6	504.38 µg/L	504.38 ppb	14:32:25
3	Tl 190.801†	260.8	294.6	494.93 µg/L	494.93 ppb	14:32:51
3	U 409.014†	5019.3	5383.3	499.34 µg/L	499.34 ppb	14:32:31
3	V 292.402†	39875.4	41403.0	503.61 µg/L	503.61 ppb	14:32:31
3	Zn 213.857†	17764.1	17761.0	495.73 µg/L	495.73 ppb	14:32:31

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1909049.5	96.590 %	0.1201			0.12%
Sc RADIAL	76602.7	97.6 %	0.69			0.71%
Y 371.029	1199868.2	96.058 %	0.0940			0.10%
Ag 328.068†	57871.0	526.12 µg/L	9.447	526.12 ppb	9.447	1.80%
QC value within limits for Ag 328.068 Recovery = 105.22%						
Al 396.153Radial†	7747.7	5007.6 µg/L	29.69	5007.6 ppb	29.69	0.59%
QC value within limits for Al 396.153Radial Recovery = 100.15%						
As 188.979†	238.5	518.84 µg/L	42.314	518.84 ppb	42.314	8.16%
QC value within limits for As 188.979 Recovery = 103.77%						
B 249.677†	10555.5	498.14 µg/L	10.691	498.14 ppb	10.691	2.15%
QC value within limits for B 249.677 Recovery = 99.63%						
Ba 233.527†	18537.2	518.74 µg/L	17.378	518.74 ppb	17.378	3.35%
QC value within limits for Ba 233.527 Recovery = 103.75%						
Be 313.107†	765318.7	514.73 µg/L	11.908	514.73 ppb	11.908	2.31%
QC value within limits for Be 313.107 Recovery = 102.95%						
Ca 317.933Radial†	6844.9	4932.1 µg/L	33.93	4932.1 ppb	33.93	0.69%
QC value within limits for Ca 317.933Radial Recovery = 98.64%						
Cd 226.502†	18173.7	514.86 µg/L	17.879	514.86 ppb	17.879	3.47%
QC value within limits for Cd 226.502 Recovery = 102.97%						
Co 228.616†	9737.4	517.37 µg/L	20.046	517.37 ppb	20.046	3.87%

QC value within limits for Co 228.616	Recovery = 103.47%			
Cr 267.716†	23118.8	518.34 µg/L	26.258	5.07%
QC value within limits for Cr 267.716	Recovery = 103.67%			
Cu 324.752†	71293.4	523.46 µg/L	18.337	3.50%
QC value within limits for Cu 324.752	Recovery = 104.69%			
Fe 238.204 Radial†	385.6	5116.5 µg/L	46.03	0.90%
QC value within limits for Fe 238.204 Radial	Recovery = 102.33%			
K 766.490 Radial†	8174.7	5157.5 µg/L	50.56	0.98%
QC value within limits for K 766.490 Radial	Recovery = 103.15%			
Mg 279.077 IEC†	499.3	5127.6 µg/L	33.92	0.66%
QC value within limits for Mg 279.077 IEC	Recovery = 102.55%			
Mn 257.610†	144452.0	512.49 µg/L	19.412	3.79%
QC value within limits for Mn 257.610	Recovery = 102.50%			
Mo 202.031†	4168.9	505.23 µg/L	42.318	8.38%
QC value within limits for Mo 202.031	Recovery = 101.05%			
Na 589.592 Radial†	36906.1	9825.7 µg/L	86.32	0.88%
QC value within limits for Na 589.592 Radial	Recovery = 98.26%			
Ni 231.604†	8582.2	519.09 µg/L	19.998	3.85%
QC value within limits for Ni 231.604	Recovery = 103.82%			
P 214.914†	1135.5	2566.6 µg/L	172.14	6.71%
QC value within limits for P 214.914	Recovery = 102.66%			
Pb 220.353†	1857.1	521.08 µg/L	35.730	6.86%
QC value within limits for Pb 220.353	Recovery = 104.22%			
S 181.975 Axial†	186.2	1035.2 µg/L	50.47	4.88%
QC value within limits for S 181.975 Axial	Recovery = 103.52%			
Sb 206.836†	483.6	513.40 µg/L	33.035	6.43%
QC value within limits for Sb 206.836	Recovery = 102.68%			
Se 196.026†	336.7	525.34 µg/L	33.762	6.43%
QC value within limits for Se 196.026	Recovery = 105.07%			
SiO2†	27358.4	5585.9 µg/L	151.28	2.71%
QC value within limits for SiO2	Recovery = 104.46%			
Si 251.611†	32176.2	2606.4 µg/L	68.68	2.63%
QC value within limits for Si 251.611	Recovery = 104.26%			
Sn 189.927†	912.3	516.76 µg/L	48.159	9.32%
QC value within limits for Sn 189.927	Recovery = 103.35%			
Sr 421.552†	84930.5	508.05 µg/L	4.381	0.86%
QC value within limits for Sr 421.552	Recovery = 101.61%			
Ti 334.940†	214899.6	519.16 µg/L	12.876	2.48%
QC value within limits for Ti 334.940	Recovery = 103.83%			
Tl 190.801†	309.2	519.45 µg/L	22.395	4.31%
QC value within limits for Tl 190.801	Recovery = 103.89%			
U 409.014†	5652.3	524.35 µg/L	22.596	4.31%
QC value within limits for U 409.014	Recovery = 104.87%			
V 292.402†	43357.6	527.60 µg/L	20.781	3.94%
QC value within limits for V 292.402	Recovery = 105.52%			
Zn 213.857†	18514.9	516.79 µg/L	18.238	3.53%
QC value within limits for Zn 213.857	Recovery = 103.36%			

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 14:33:00

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	73824.9	73824.9	94.1 %			14:33:33
1	Al 396.153Radial†	-22.9	5.2	3.3307 µg/L	3.3307 ppb	14:33:33	
1	Ca 317.933Radial†	249.8	18.4	13.248 µg/L	13.248 ppb	14:33:53	
1	Fe 238.204 Radial†	16.6	1.3	16.636 µg/L	16.636 ppb	14:33:53	
1	K 766.490 Radial†	365.8	-9.9	-6.2261 µg/L	-6.2261 ppb	14:33:33	
1	Mg 279.077 IEC†	11.2	3.8	38.784 µg/L	38.784 ppb	14:33:53	
1	Na 589.592 Radial†	376.9	-153.0	-40.729 µg/L	-40.729 ppb	14:33:33	
1	Sr 421.552†	667.4	75.4	0.4513 µg/L	0.4513 ppb	14:33:33	
1	Sc 361.383	1909432.3	1909432.3	96.609 %		14:34:55	
1	Y 371.029	1205863.3	1205863.3	96.538 %		14:34:55	
1	Ag 328.068†	-143.2	-55.6	-0.4997 µg/L	-0.4997 ppb	14:35:00	
1	As 188.979†	-4.8	-2.2	-4.7849 µg/L	-4.7849 ppb	14:35:21	
1	B 249.677†	152.2	-212.4	-10.070 µg/L	-10.070 ppb	14:35:21	
1	Ba 233.527†	-24.1	-1.0	-0.0271 µg/L	-0.0271 ppb	14:35:21	
1	Be 313.107†	3857.0	158.6	0.1066 µg/L	0.1066 ppb	14:35:00	
1	Cd 226.502†	-116.6	4.6	0.1281 µg/L	0.1281 ppb	14:35:21	
1	Co 228.616†	-46.4	1.3	0.0678 µg/L	0.0678 ppb	14:35:21	
1	Cr 267.716†	-66.2	33.6	0.7524 µg/L	0.7524 ppb	14:35:21	
1	Cu 324.752†	3822.5	56.7	0.4180 µg/L	0.4180 ppb	14:35:00	
1	Mn 257.610†	-80.7	64.3	0.2287 µg/L	0.2287 ppb	14:35:21	
1	Mo 202.031†	21.3	9.5	1.1470 µg/L	1.1470 ppb	14:35:21	
1	Ni 231.604†	319.2	-1.0	-0.0602 µg/L	-0.0602 ppb	14:35:21	
1	P 214.914†	227.1	15.2	35.070 µg/L	35.070 ppb	14:35:21	
1	Pb 220.353†	63.2	4.3	1.2002 µg/L	1.2002 ppb	14:35:21	
1	S 181.975 Axial†	20.7	-1.7	-9.3087 µg/L	-9.3087 ppb	14:35:21	
1	Sb 206.836†	29.6	6.6	7.0145 µg/L	7.0145 ppb	14:35:21	
1	Se 196.026†	11.1	3.5	5.3291 µg/L	5.3291 ppb	14:35:21	
1	SiO2†	2283.8	-25.4	-5.1842 µg/L	-5.1842 ppb	14:35:00	
1	Si 251.611†	291.5	19.3	1.5616 µg/L	1.5616 ppb	14:35:21	
1	Sn 189.927†	27.5	5.0	2.8099 µg/L	2.8099 ppb	14:35:21	
1	Ti 334.940†	749.8	72.3	0.1718 µg/L	0.1718 ppb	14:35:00	
1	Tl 190.801†	-20.7	3.1	5.1498 µg/L	5.1498 ppb	14:35:21	
1	U 409.014†	-220.0	-41.5	-3.8619 µg/L	-3.8619 ppb	14:35:00	
1	V 292.402†	-99.5	12.3	0.1554 µg/L	0.1554 ppb	14:35:00	
1	Zn 213.857†	692.6	84.7	2.3769 µg/L	2.3769 ppb	14:35:21	
2	Sc RADIAL	74084.6	74084.6	94.4 %		14:33:59	
2	Al 396.153Radial†	-5.0	24.2	15.651 µg/L	15.651 ppb	14:33:59	
2	Ca 317.933Radial†	235.7	2.5	1.8309 µg/L	1.8309 ppb	14:34:19	
2	Fe 238.204 Radial†	16.8	1.5	19.215 µg/L	19.215 ppb	14:34:19	
2	K 766.490 Radial†	412.6	38.3	24.189 µg/L	24.189 ppb	14:33:59	
2	Mg 279.077 IEC†	9.2	1.5	15.896 µg/L	15.896 ppb	14:34:19	
2	Na 589.592 Radial†	369.9	-161.8	-43.079 µg/L	-43.079 ppb	14:33:59	
2	Sr 421.552†	695.3	102.5	0.6131 µg/L	0.6131 ppb	14:33:59	
2	Sc 361.383	1920792.4	1920792.4	97.184 %		14:35:27	
2	Y 371.029	1212904.8	1212904.8	97.102 %		14:35:27	
2	Ag 328.068†	-146.0	-57.6	-0.5176 µg/L	-0.5176 ppb	14:35:33	
2	As 188.979†	-2.8	-0.2	-0.4297 µg/L	-0.4297 ppb	14:35:53	
2	B 249.677†	138.2	-227.7	-10.795 µg/L	-10.795 ppb	14:35:53	
2	Ba 233.527†	-25.1	-1.9	-0.0524 µg/L	-0.0524 ppb	14:35:53	
2	Be 313.107†	3847.4	125.1	0.0841 µg/L	0.0841 ppb	14:35:33	
2	Cd 226.502†	-109.1	13.0	0.3675 µg/L	0.3675 ppb	14:35:53	
2	Co 228.616†	-53.4	-5.7	-0.3007 µg/L	-0.3007 ppb	14:35:53	
2	Cr 267.716†	-66.7	33.5	0.7510 µg/L	0.7510 ppb	14:35:53	
2	Cu 324.752†	3778.5	-11.9	-0.0848 µg/L	-0.0848 ppb	14:35:33	
2	Mn 257.610†	-57.8	88.3	0.3151 µg/L	0.3151 ppb	14:35:53	
2	Mo 202.031†	22.9	10.9	1.3253 µg/L	1.3253 ppb	14:35:53	
2	Ni 231.604†	322.9	0.9	0.0549 µg/L	0.0549 ppb	14:35:53	
2	P 214.914†	221.7	8.3	19.175 µg/L	19.175 ppb	14:35:53	
2	Pb 220.353†	74.1	15.1	4.2316 µg/L	4.2316 ppb	14:35:53	

2	S 181.975 Axial†	25.0	2.5	14.169 µg/L	14.169 ppb	14:35:53
2	Sb 206.836†	28.1	4.9	5.2353 µg/L	5.2353 ppb	14:35:53
2	Se 196.026†	8.8	1.2	1.8083 µg/L	1.8083 ppb	14:35:53
2	SiO2†	2278.2	-45.2	-9.2199 µg/L	-9.2199 ppb	14:35:33
2	Si 251.611†	278.3	3.9	0.3173 µg/L	0.3173 ppb	14:35:53
2	Sn 189.927†	20.0	-2.9	-1.6265 µg/L	-1.6265 ppb	14:35:53
2	Ti 334.940†	725.2	42.3	0.1011 µg/L	0.1011 ppb	14:35:33
2	Tl 190.801†	-27.7	-4.0	-6.6480 µg/L	-6.6480 ppb	14:35:53
2	U 409.014†	-120.0	62.7	5.8262 µg/L	5.8262 ppb	14:35:33
2	V 292.402†	-95.0	17.5	0.2299 µg/L	0.2299 ppb	14:35:33
2	Zn 213.857†	687.5	75.1	2.1103 µg/L	2.1103 ppb	14:35:53
3	Sc RADIAL	74228.0	74228.0	94.6 %		14:34:24
3	Al 396.153Radial†	-34.9	-7.4	-4.8508 µg/L	-4.8508 ppb	14:34:24
3	Ca 317.933Radial†	236.0	2.4	1.6943 µg/L	1.6943 ppb	14:34:45
3	Fe 238.204 Radial†	18.4	3.2	41.892 µg/L	41.892 ppb	14:34:45
3	K 766.490 Radial†	424.8	50.5	31.840 µg/L	31.840 ppb	14:34:24
3	Mg 279.077 IEC†	8.3	0.7	6.7284 µg/L	6.7284 ppb	14:34:45
3	Na 589.592 Radial†	372.5	-159.9	-42.565 µg/L	-42.565 ppb	14:34:24
3	Sr 421.552†	645.0	48.0	0.2868 µg/L	0.2868 ppb	14:34:24
3	Sc 361.383	1917389.6	1917389.6	97.012 %		14:35:59
3	Y 371.029	1211392.4	1211392.4	96.980 %		14:35:59
3	Ag 328.068†	-119.6	-30.7	-0.2740 µg/L	-0.2740 ppb	14:36:05
3	As 188.979†	-4.3	-1.7	-3.7762 µg/L	-3.7762 ppb	14:36:25
3	B 249.677†	157.5	-207.6	-9.8516 µg/L	-9.8516 ppb	14:36:25
3	Ba 233.527†	-20.3	3.0	0.0852 µg/L	0.0852 ppb	14:36:25
3	Be 313.107†	3919.0	205.9	0.1385 µg/L	0.1385 ppb	14:36:05
3	Cd 226.502†	-117.1	4.6	0.1247 µg/L	0.1247 ppb	14:36:25
3	Co 228.616†	-45.3	2.6	0.1396 µg/L	0.1396 ppb	14:36:25
3	Cr 267.716†	-22.4	79.0	1.7710 µg/L	1.7710 ppb	14:36:25
3	Cu 324.752†	3788.3	5.0	0.0425 µg/L	0.0425 ppb	14:36:05
3	Mn 257.610†	29.0	177.7	0.6352 µg/L	0.6352 ppb	14:36:25
3	Mo 202.031†	25.3	13.5	1.6378 µg/L	1.6378 ppb	14:36:25
3	Ni 231.604†	324.8	3.4	0.2072 µg/L	0.2072 ppb	14:36:25
3	P 214.914†	226.0	13.1	30.228 µg/L	30.228 ppb	14:36:25
3	Pb 220.353†	59.6	0.3	0.0947 µg/L	0.0947 ppb	14:36:25
3	S 181.975 Axial†	21.1	-1.4	-7.6184 µg/L	-7.6184 ppb	14:36:25
3	Sb 206.836†	25.7	2.5	2.6562 µg/L	2.6562 ppb	14:36:25
3	Se 196.026†	10.9	3.3	5.1129 µg/L	5.1129 ppb	14:36:25
3	SiO2†	2316.0	-2.1	-0.4191 µg/L	-0.4191 ppb	14:36:05
3	Si 251.611†	309.8	36.9	2.9898 µg/L	2.9898 ppb	14:36:25
3	Sn 189.927†	24.2	1.4	0.8180 µg/L	0.8180 ppb	14:36:25
3	Ti 334.940†	749.4	68.6	0.1653 µg/L	0.1653 ppb	14:36:05
3	Tl 190.801†	-25.0	-1.3	-2.1424 µg/L	-2.1424 ppb	14:36:25
3	U 409.014†	-327.1	-151.0	-14.039 µg/L	-14.039 ppb	14:36:05
3	V 292.402†	-105.5	6.6	0.0834 µg/L	0.0834 ppb	14:36:05
3	Zn 213.857†	695.8	84.9	2.3840 µg/L	2.3840 ppb	14:36:25

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1915871.4	96.935 %		0.2950			0.30%
Sc RADIAL	74045.8	94.3 %		0.26			0.28%
Y 371.029	1210053.5	96.873 %		0.2968			0.31%
Ag 328.068†	-48.0	-0.4305 µg/L		0.13577	-0.4305 ppb	0.13577	31.54%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	7.3	4.7105 µg/L		10.32050	4.7105 ppb	10.32050	219.10%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-1.4	-2.9970 µg/L		2.27978	-2.9970 ppb	2.27978	76.07%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-215.9	-10.239 µg/L		0.4937	-10.239 ppb	0.4937	4.82%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	0.1	0.0019 µg/L		0.07323	0.0019 ppb	0.07323	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	163.2	0.1097 µg/L		0.02732	0.1097 ppb	0.02732	24.90%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	7.8	5.5910 µg/L		6.63129	5.5910 ppb	6.63129	118.61%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	7.4	0.2068 µg/L		0.13923	0.2068 ppb	0.13923	67.33%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-0.6	-0.0311 µg/L		0.23624	-0.0311 ppb	0.23624	759.22%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	48.7	1.0915 µg/L	0.58847	1.0915 ppb	0.58847 53.92%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	16.6	0.1252 µg/L	0.26141	0.1252 ppb	0.26141 208.73%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	2.0	25.914 µg/L	13.8967	25.914 ppb	13.8967 53.63%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	26.3	16.601 µg/L	20.1354	16.601 ppb	20.1354 121.29%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	2.0	20.470 µg/L	16.5099	20.470 ppb	16.5099 80.66%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	110.1	0.3930 µg/L	0.21416	0.3930 ppb	0.21416 54.50%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	11.3	1.3700 µg/L	0.24844	1.3700 ppb	0.24844 18.13%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	-158.2	-42.124 µg/L	1.2358	-42.124 ppb	1.2358 2.93%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	1.1	0.0673 µg/L	0.13413	0.0673 ppb	0.13413 199.34%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	12.2	28.157 µg/L	8.1472	28.157 ppb	8.1472 28.93%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	6.5	1.8422 µg/L	2.14190	1.8422 ppb	2.14190 116.27%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	-0.2	-0.9194 µg/L	13.09420	-0.9194 ppb	13.09420 >999.9%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	4.7	4.9687 µg/L	2.19132	4.9687 ppb	2.19132 44.10%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	2.7	4.0834 µg/L	1.97330	4.0834 ppb	1.97330 48.32%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	-24.2	-4.9411 µg/L	4.40543	-4.9411 ppb	4.40543 89.16%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	20.0	1.6229 µg/L	1.33732	1.6229 ppb	1.33732 82.40%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	1.2	0.6671 µg/L	2.22206	0.6671 ppb	2.22206 333.08%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	75.3	0.4504 µg/L	0.16313	0.4504 ppb	0.16313 36.22%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	61.1	0.1461 µg/L	0.03909	0.1461 ppb	0.03909 26.76%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	-0.7	-1.2135 µg/L	5.95349	-1.2135 ppb	5.95349 490.59%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	-43.3	-4.0248 µg/L	9.93341	-4.0248 ppb	9.93341 246.81%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	12.1	0.1562 µg/L	0.07328	0.1562 ppb	0.07328 46.90%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	81.6	2.2904 µg/L	0.15602	2.2904 ppb	0.15602 6.81%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 19

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 15:08:54

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	76439.3	76439.3	97.4 %		15:09:33
1	Al 396.153Radial†	7662.4	7896.5	5103.2 µg/L	5103.2 ppb	15:09:33
1	Ca 317.933Radial†	6845.9	6781.6	4886.4 µg/L	4886.4 ppb	15:09:53
1	Fe 238.204 Radial†	393.7	387.8	5147.0 µg/L	5147.0 ppb	15:09:53
1	K 766.490 Radial†	8485.1	8312.9	5244.7 µg/L	5244.7 ppb	15:09:33
1	Mg 279.077 IEC†	499.4	504.6	5182.0 µg/L	5182.0 ppb	15:09:53
1	Na 589.592 Radial†	37220.5	37660.7	10027 µg/L	10027 ppb	15:09:33
1	Sr 421.552†	84915.0	86548.4	517.73 µg/L	517.73 ppb	15:09:33
1	Sc 361.383	1901087.3	1901087.3	96.187 %		15:10:57
1	Y 371.029	1196939.0	1196939.0	95.823 %		15:10:57
1	Ag 328.068†	57560.2	59934.7	544.91 µg/L	544.91 ppb	15:11:02
1	As 188.979†	242.0	254.3	553.38 µg/L	553.38 ppb	15:11:23
1	B 249.677†	10887.9	10949.6	516.84 µg/L	516.84 ppb	15:11:02
1	Ba 233.527†	18567.0	19327.1	540.84 µg/L	540.84 ppb	15:11:02
1	Be 313.107†	762265.3	788651.0	530.43 µg/L	530.43 ppb	15:10:57
1	Cd 226.502†	18103.4	18946.4	536.77 µg/L	536.77 ppb	15:11:02
1	Co 228.616†	9748.4	10184.2	541.14 µg/L	541.14 ppb	15:11:02
1	Cr 267.716†	23354.5	24382.5	546.67 µg/L	546.67 ppb	15:11:02
1	Cu 324.752†	75563.9	74659.6	548.15 µg/L	548.15 ppb	15:11:02
1	Mn 257.610†	145113.4	151014.2	535.75 µg/L	535.75 ppb	15:10:57
1	Mo 202.031†	4313.5	4471.9	541.95 µg/L	541.95 ppb	15:11:23
1	Ni 231.604†	8941.1	8964.2	542.19 µg/L	542.19 ppb	15:11:02
1	P 214.914†	1379.7	1214.6	2746.8 µg/L	2746.8 ppb	15:11:23
1	Pb 220.353†	1961.9	1978.5	555.18 µg/L	555.18 ppb	15:11:23
1	S 181.975 Axial†	212.3	197.6	1098.4 µg/L	1098.4 ppb	15:11:23
1	Sb 206.836†	519.3	515.8	547.84 µg/L	547.84 ppb	15:11:23
1	Se 196.026†	350.9	356.9	555.85 µg/L	555.85 ppb	15:11:23
1	SiO2†	29654.1	28440.3	5806.8 µg/L	5806.8 ppb	15:11:02
1	Si 251.611†	32438.4	33442.0	2709.0 µg/L	2709.0 ppb	15:11:02
1	Sn 189.927†	974.6	989.8	560.47 µg/L	560.47 ppb	15:11:23
1	Ti 334.940†	213567.4	221330.3	534.70 µg/L	534.70 ppb	15:10:57
1	Tl 190.801†	293.8	330.0	554.24 µg/L	554.24 ppb	15:11:23
1	U 409.014†	5483.2	5886.7	546.14 µg/L	546.14 ppb	15:11:02
1	V 292.402†	43537.7	45379.0	552.30 µg/L	552.30 ppb	15:11:02
1	Zn 213.857†	19253.4	19384.4	541.08 µg/L	541.08 ppb	15:11:02
2	Sc RADIAL	76464.6	76464.6	97.4 %		15:09:59
2	Al 396.153Radial†	7657.9	7889.3	5098.6 µg/L	5098.6 ppb	15:09:59
2	Ca 317.933Radial†	6862.6	6796.4	4897.1 µg/L	4897.1 ppb	15:10:19
2	Fe 238.204 Radial†	396.8	391.0	5188.3 µg/L	5188.3 ppb	15:10:19
2	K 766.490 Radial†	8482.8	8307.7	5241.4 µg/L	5241.4 ppb	15:09:59
2	Mg 279.077 IEC†	499.3	504.3	5179.4 µg/L	5179.4 ppb	15:10:19
2	Na 589.592 Radial†	37109.8	37534.4	9992.9 µg/L	9992.9 ppb	15:09:59
2	Sr 421.552†	84508.7	86102.6	515.06 µg/L	515.06 ppb	15:09:59
2	Sc 361.383	1910266.0	1910266.0	96.651 %		15:11:30
2	Y 371.029	1201889.2	1201889.2	96.220 %		15:11:30
2	Ag 328.068†	57119.3	59191.0	538.16 µg/L	538.16 ppb	15:11:36
2	As 188.979†	238.0	249.0	541.63 µg/L	541.63 ppb	15:11:56
2	B 249.677†	10827.4	10832.6	511.27 µg/L	511.27 ppb	15:11:36
2	Ba 233.527†	18465.5	19129.2	535.31 µg/L	535.31 ppb	15:11:36
2	Be 313.107†	768670.5	791470.4	532.32 µg/L	532.32 ppb	15:11:30
2	Cd 226.502†	18009.4	18758.7	531.45 µg/L	531.45 ppb	15:11:36
2	Co 228.616†	9724.0	10110.3	537.20 µg/L	537.20 ppb	15:11:36
2	Cr 267.716†	23162.0	24066.7	539.59 µg/L	539.59 ppb	15:11:36
2	Cu 324.752†	75139.2	73842.7	542.16 µg/L	542.16 ppb	15:11:36
2	Mn 257.610†	146444.1	151666.0	538.07 µg/L	538.07 ppb	15:11:30
2	Mo 202.031†	4285.4	4421.3	535.82 µg/L	535.82 ppb	15:11:56
2	Ni 231.604†	8906.3	8883.4	537.31 µg/L	537.31 ppb	15:11:36
2	P 214.914†	1375.1	1202.9	2720.2 µg/L	2720.2 ppb	15:11:56
2	Pb 220.353†	1943.6	1949.8	547.10 µg/L	547.10 ppb	15:11:56

2	S 181.975 Axial†	210.3	194.4	1080.9 µg/L	1080.9 ppb	15:11:56
2	Sb 206.836†	510.7	504.4	535.70 µg/L	535.70 ppb	15:11:56
2	Se 196.026†	357.6	362.1	563.79 µg/L	563.79 ppb	15:11:56
2	SiO2†	29454.7	28085.9	5734.5 µg/L	5734.5 ppb	15:11:36
2	Si 251.611†	32237.8	33072.4	2679.0 µg/L	2679.0 ppb	15:11:36
2	Sn 189.927†	966.4	976.5	552.96 µg/L	552.96 ppb	15:11:56
2	Ti 334.940†	215174.1	221925.8	536.14 µg/L	536.14 ppb	15:11:30
2	Tl 190.801†	289.4	324.0	544.22 µg/L	544.22 ppb	15:11:56
2	U 409.014†	5488.0	5864.4	544.05 µg/L	544.05 ppb	15:11:36
2	V 292.402†	43264.2	44878.6	546.21 µg/L	546.21 ppb	15:11:36
2	Zn 213.857†	19126.3	19156.7	534.71 µg/L	534.71 ppb	15:11:36
3	Sc RADIAL	76205.7	76205.7	97.1 %		15:10:25
3	Al 396.153Radial†	7716.5	7976.4	5156.8 µg/L	5156.8 ppb	15:10:25
3	Ca 317.933Radial†	6879.0	6837.2	4926.5 µg/L	4926.5 ppb	15:10:45
3	Fe 238.204 Radial†	399.2	394.8	5238.3 µg/L	5238.3 ppb	15:10:45
3	K 766.490 Radial†	8560.6	8417.4	5310.6 µg/L	5310.6 ppb	15:10:25
3	Mg 279.077 IEC†	505.0	511.9	5255.4 µg/L	5255.4 ppb	15:10:45
3	Na 589.592 Radial†	37362.0	37923.6	10097 µg/L	10097 ppb	15:10:25
3	Sr 421.552†	85278.6	87190.2	521.56 µg/L	521.56 ppb	15:10:25
3	Sc 361.383	1915638.0	1915638.0	96.923 %		15:12:03
3	Y 371.029	1205950.7	1205950.7	96.545 %		15:12:03
3	Ag 328.068†	54875.7	56710.4	515.47 µg/L	515.47 ppb	15:12:09
3	As 188.979†	206.0	215.3	468.43 µg/L	468.43 ppb	15:12:29
3	B 249.677†	10330.2	10288.2	485.36 µg/L	485.36 ppb	15:12:09
3	Ba 233.527†	17159.2	17727.9	496.08 µg/L	496.08 ppb	15:12:09
3	Be 313.107†	726048.5	745265.0	501.25 µg/L	501.25 ppb	15:12:03
3	Cd 226.502†	16740.2	17396.9	492.81 µg/L	492.81 ppb	15:12:09
3	Co 228.616†	8966.6	9300.5	494.12 µg/L	494.12 ppb	15:12:09
3	Cr 267.716†	20847.0	21611.0	484.54 µg/L	484.54 ppb	15:12:09
3	Cu 324.752†	69698.2	68010.9	499.41 µg/L	499.41 ppb	15:12:09
3	Mn 257.610†	138393.7	142935.2	507.13 µg/L	507.13 ppb	15:12:03
3	Mo 202.031†	3608.7	3710.7	449.74 µg/L	449.74 ppb	15:12:29
3	Ni 231.604†	8181.8	8110.1	490.53 µg/L	490.53 ppb	15:12:09
3	P 214.914†	1203.9	1022.3	2307.3 µg/L	2307.3 ppb	15:12:29
3	Pb 220.353†	1688.4	1680.9	471.56 µg/L	471.56 ppb	15:12:29
3	S 181.975 Axial†	188.7	171.6	954.03 µg/L	954.03 ppb	15:12:29
3	Sb 206.836†	442.0	432.0	458.33 µg/L	458.33 ppb	15:12:29
3	Se 196.026†	318.5	320.6	501.67 µg/L	501.67 ppb	15:12:29
3	SiO2†	27879.2	26374.9	5385.1 µg/L	5385.1 ppb	15:12:09
3	Si 251.611†	30368.2	31049.9	2515.2 µg/L	2515.2 ppb	15:12:09
3	Sn 189.927†	805.5	807.7	457.83 µg/L	457.83 ppb	15:12:29
3	Ti 334.940†	202366.6	208087.4	502.68 µg/L	502.68 ppb	15:12:03
3	Tl 190.801†	256.9	289.6	486.68 µg/L	486.68 ppb	15:12:29
3	U 409.014†	4908.8	5250.8	487.02 µg/L	487.02 ppb	15:12:09
3	V 292.402†	39650.9	41025.0	499.00 µg/L	499.00 ppb	15:12:09
3	Zn 213.857†	17707.8	17637.7	492.28 µg/L	492.28 ppb	15:12:09

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1908997.1	96.587 %	0.3723			0.39%
Sc RADIAL	76369.9	97.3 %	0.18			0.19%
Y 371.029	1201593.0	96.196 %	0.3613			0.38%
Ag 328.068†	58612.1	532.85 µg/L	15.424	532.85 ppb	15.424	2.89%
QC value within limits for Ag 328.068 Recovery = 106.57%						
Al 396.153Radial†	7920.7	5119.5 µg/L	32.35	5119.5 ppb	32.35	0.63%
QC value within limits for Al 396.153Radial Recovery = 102.39%						
As 188.979†	239.5	521.15 µg/L	46.028	521.15 ppb	46.028	8.83%
QC value within limits for As 188.979 Recovery = 104.23%						
B 249.677†	10690.1	504.49 µg/L	16.796	504.49 ppb	16.796	3.33%
QC value within limits for B 249.677 Recovery = 100.90%						
Ba 233.527†	18728.1	524.08 µg/L	24.404	524.08 ppb	24.404	4.66%
QC value within limits for Ba 233.527 Recovery = 104.82%						
Be 313.107†	775128.8	521.33 µg/L	17.420	521.33 ppb	17.420	3.34%
QC value within limits for Be 313.107 Recovery = 104.27%						
Ca 317.933Radial†	6805.0	4903.3 µg/L	20.76	4903.3 ppb	20.76	0.42%
QC value within limits for Ca 317.933Radial Recovery = 98.07%						
Cd 226.502†	18367.3	520.34 µg/L	23.992	520.34 ppb	23.992	4.61%
QC value within limits for Cd 226.502 Recovery = 104.07%						
Co 228.616†	9865.0	524.15 µg/L	26.085	524.15 ppb	26.085	4.98%

QC value within limits for Co 228.616 Recovery = 104.83%							
Cr 267.716†	23353.4	523.60 µg/L	34.014	523.60 ppb	34.014	6.50%	
QC value within limits for Cr 267.716 Recovery = 104.72%							
Cu 324.752†	72171.1	529.90 µg/L	26.580	529.90 ppb	26.580	5.02%	
QC value within limits for Cu 324.752 Recovery = 105.98%							
Fe 238.204 Radial†	391.2	5191.2 µg/L	45.71	5191.2 ppb	45.71	0.88%	
QC value within limits for Fe 238.204 Radial Recovery = 103.82%							
K 766.490 Radial†	8346.0	5265.5 µg/L	39.04	5265.5 ppb	39.04	0.74%	
QC value within limits for K 766.490 Radial Recovery = 105.31%							
Mg 279.077 IEC†	506.9	5205.6 µg/L	43.15	5205.6 ppb	43.15	0.83%	
QC value within limits for Mg 279.077 IEC Recovery = 104.11%							
Mn 257.610†	148538.5	526.98 µg/L	17.235	526.98 ppb	17.235	3.27%	
QC value within limits for Mn 257.610 Recovery = 105.40%							
Mo 202.031†	4201.3	509.17 µg/L	51.560	509.17 ppb	51.560	10.13%	
QC value within limits for Mo 202.031 Recovery = 101.83%							
Na 589.592 Radial†	37706.2	10039 µg/L	52.9	10039 ppb	52.9	0.53%	
QC value within limits for Na 589.592 Radial Recovery = 100.39%							
Ni 231.604†	8652.6	523.34 µg/L	28.518	523.34 ppb	28.518	5.45%	
QC value within limits for Ni 231.604 Recovery = 104.67%							
P 214.914†	1146.6	2591.4 µg/L	246.46	2591.4 ppb	246.46	9.51%	
QC value within limits for P 214.914 Recovery = 103.66%							
Pb 220.353†	1869.7	524.61 µg/L	46.124	524.61 ppb	46.124	8.79%	
QC value within limits for Pb 220.353 Recovery = 104.92%							
S 181.975 Axial†	187.9	1044.4 µg/L	78.79	1044.4 ppb	78.79	7.54%	
QC value within limits for S 181.975 Axial Recovery = 104.44%							
Sb 206.836†	484.1	513.96 µg/L	48.555	513.96 ppb	48.555	9.45%	
QC value within limits for Sb 206.836 Recovery = 102.79%							
Se 196.026†	346.5	540.44 µg/L	33.811	540.44 ppb	33.811	6.26%	
QC value within limits for Se 196.026 Recovery = 108.09%							
SiO2†	27633.7	5642.1 µg/L	225.51	5642.1 ppb	225.51	4.00%	
QC value within limits for SiO2 Recovery = 105.51%							
Si 251.611†	32521.4	2634.4 µg/L	104.31	2634.4 ppb	104.31	3.96%	
QC value within limits for Si 251.611 Recovery = 105.38%							
Sn 189.927†	924.6	523.75 µg/L	57.214	523.75 ppb	57.214	10.92%	
QC value within limits for Sn 189.927 Recovery = 104.75%							
Sr 421.552†	86613.7	518.12 µg/L	3.270	518.12 ppb	3.270	0.63%	
QC value within limits for Sr 421.552 Recovery = 103.62%							
Ti 334.940†	217114.5	524.50 µg/L	18.915	524.50 ppb	18.915	3.61%	
QC value within limits for Ti 334.940 Recovery = 104.90%							
Tl 190.801†	314.5	528.38 µg/L	36.460	528.38 ppb	36.460	6.90%	
QC value within limits for Tl 190.801 Recovery = 105.68%							
U 409.014†	5667.3	525.74 µg/L	33.547	525.74 ppb	33.547	6.38%	
QC value within limits for U 409.014 Recovery = 105.15%							
V 292.402†	43760.9	532.50 µg/L	29.175	532.50 ppb	29.175	5.48%	
QC value within limits for V 292.402 Recovery = 106.50%							
Zn 213.857†	18726.3	522.69 µg/L	26.529	522.69 ppb	26.529	5.08%	
QC value within limits for Zn 213.857 Recovery = 104.54%							
All analyte(s) passed QC.							

Sequence No.: 20

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 15:12:39

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	73659.4	73659.4	93.9 %		15:13:12
1	Al 396.153Radial†	-25.4	2.4	1.5661 µg/L	1.5661 ppb	15:13:12
1	Ca 317.933Radial†	246.6	15.5	11.192 µg/L	11.192 ppb	15:13:32
1	Fe 238.204 Radial†	16.3	1.0	13.550 µg/L	13.550 ppb	15:13:32
1	K 766.490 Radial†	374.2	-0.0	-0.0202 µg/L	-0.0202 ppb	15:13:12
1	Mg 279.077 IEC†	5.4	-2.4	-24.184 µg/L	-24.184 ppb	15:13:32
1	Na 589.592 Radial†	460.5	-63.0	-16.782 µg/L	-16.782 ppb	15:13:12
1	Sr 421.552†	847.2	268.6	1.6070 µg/L	1.6070 ppb	15:13:12
1	Sc 361.383	1896915.4	1896915.4	95.976 %		15:14:34
1	Y 371.029	1198514.3	1198514.3	95.949 %		15:14:34
1	Ag 328.068†	-156.1	-70.1	-0.6304 µg/L	-0.6304 ppb	15:14:40
1	As 188.979†	-1.3	1.4	2.9566 µg/L	2.9566 ppb	15:15:00
1	B 249.677†	149.4	-214.3	-10.157 µg/L	-10.157 ppb	15:15:00
1	Ba 233.527†	-31.6	-9.0	-0.2498 µg/L	-0.2498 ppb	15:15:00
1	Be 313.107†	3823.4	150.0	0.1009 µg/L	0.1009 ppb	15:14:40
1	Cd 226.502†	-121.0	-0.8	-0.0242 µg/L	-0.0242 ppb	15:15:00
1	Co 228.616†	-47.0	0.3	0.0169 µg/L	0.0169 ppb	15:15:00
1	Cr 267.716†	-39.1	61.4	1.3766 µg/L	1.3766 ppb	15:14:40
1	Cu 324.752†	3758.0	15.6	0.1166 µg/L	0.1166 ppb	15:14:40
1	Mn 257.610†	-77.2	67.4	0.2416 µg/L	0.2416 ppb	15:15:00
1	Mo 202.031†	19.8	8.0	0.9709 µg/L	0.9709 ppb	15:15:00
1	Ni 231.604†	317.2	-0.9	-0.0519 µg/L	-0.0519 ppb	15:15:00
1	P 214.914†	221.5	10.9	25.121 µg/L	25.121 ppb	15:15:00
1	Pb 220.353†	67.9	9.6	2.6976 µg/L	2.6976 ppb	15:15:00
1	S 181.975 Axial†	22.5	0.3	1.7216 µg/L	1.7216 ppb	15:15:00
1	Sb 206.836†	23.0	-0.1	-0.0988 µg/L	-0.0988 ppb	15:15:00
1	Se 196.026†	4.6	-3.1	-4.5934 µg/L	-4.5934 ppb	15:15:00
1	SiO2†	2298.2	5.2	1.0642 µg/L	1.0642 ppb	15:14:40
1	Si 251.611†	279.8	9.1	0.7388 µg/L	0.7388 ppb	15:15:00
1	Sn 189.927†	23.9	1.4	0.8036 µg/L	0.8036 ppb	15:15:00
1	Ti 334.940†	705.7	31.4	0.0780 µg/L	0.0780 ppb	15:14:40
1	Tl 190.801†	-23.2	0.3	0.5665 µg/L	0.5665 ppb	15:15:00
1	U 409.014†	-219.6	-42.6	-3.9589 µg/L	-3.9589 ppb	15:14:40
1	V 292.402†	-96.4	14.8	0.1858 µg/L	0.1858 ppb	15:14:40
1	Zn 213.857†	686.0	82.5	2.3188 µg/L	2.3188 ppb	15:15:00
2	Sc RADIAL	73984.8	73984.8	94.3 %		15:13:38
2	Al 396.153Radial†	-34.3	-6.8	-4.4514 µg/L	-4.4514 ppb	15:13:38
2	Ca 317.933Radial†	241.9	9.5	6.8186 µg/L	6.8186 ppb	15:13:58
2	Fe 238.204 Radial†	17.2	1.9	24.543 µg/L	24.543 ppb	15:13:58
2	K 766.490 Radial†	404.3	30.2	19.027 µg/L	19.027 ppb	15:13:38
2	Mg 279.077 IEC†	11.8	4.4	45.071 µg/L	45.071 ppb	15:13:58
2	Na 589.592 Radial†	365.9	-165.6	-44.082 µg/L	-44.082 ppb	15:13:38
2	Sr 421.552†	661.1	67.2	0.4021 µg/L	0.4021 ppb	15:13:38
2	Sc 361.383	1890357.7	1890357.7	95.644 %		15:15:06
2	Y 371.029	1193359.2	1193359.2	95.537 %		15:15:06
2	Ag 328.068†	-120.5	-33.4	-0.3001 µg/L	-0.3001 ppb	15:15:12
2	As 188.979†	-0.7	2.0	4.3167 µg/L	4.3167 ppb	15:15:32
2	B 249.677†	136.5	-227.2	-10.773 µg/L	-10.773 ppb	15:15:32
2	Ba 233.527†	-27.1	-4.4	-0.1221 µg/L	-0.1221 ppb	15:15:32
2	Be 313.107†	3791.2	130.1	0.0875 µg/L	0.0875 ppb	15:15:12
2	Cd 226.502†	-125.3	-5.7	-0.1634 µg/L	-0.1634 ppb	15:15:32
2	Co 228.616†	-57.2	-10.5	-0.5559 µg/L	-0.5559 ppb	15:15:32
2	Cr 267.716†	-68.2	30.9	0.6919 µg/L	0.6919 ppb	15:15:12
2	Cu 324.752†	3763.7	35.2	0.2614 µg/L	0.2614 ppb	15:15:12
2	Mn 257.610†	-83.7	60.4	0.2155 µg/L	0.2155 ppb	15:15:32
2	Mo 202.031†	17.9	6.1	0.7380 µg/L	0.7380 ppb	15:15:32
2	Ni 231.604†	316.6	-0.4	-0.0210 µg/L	-0.0210 ppb	15:15:32
2	P 214.914†	223.4	13.7	31.613 µg/L	31.613 ppb	15:15:32
2	Pb 220.353†	71.3	13.4	3.7473 µg/L	3.7473 ppb	15:15:32

2	S 181.975 Axial†	19.1	-3.2	-17.799 µg/L	-17.799 ppb	15:15:32
2	Sb 206.836†	31.4	8.8	9.2781 µg/L	9.2781 ppb	15:15:32
2	Se 196.026†	20.1	13.1	19.711 µg/L	19.711 ppb	15:15:32
2	SiO2†	2293.8	8.8	1.8019 µg/L	1.8019 ppb	15:15:12
2	Si 251.611†	284.6	15.1	1.2228 µg/L	1.2228 ppb	15:15:32
2	Sn 189.927†	24.1	1.7	0.9848 µg/L	0.9848 ppb	15:15:32
2	Ti 334.940†	721.3	50.3	0.1181 µg/L	0.1181 ppb	15:15:12
2	Tl 190.801†	-27.3	-4.1	-6.7502 µg/L	-6.7502 ppb	15:15:32
2	U 409.014†	-166.1	12.6	1.1669 µg/L	1.1669 ppb	15:15:12
2	V 292.402†	-116.4	-6.4	-0.0671 µg/L	-0.0671 ppb	15:15:12
2	Zn 213.857†	683.9	82.8	2.3239 µg/L	2.3239 ppb	15:15:32
3	Sc RADIAL	73425.8	73425.8	93.6 %		15:14:03
3	Al 396.153Radial†	-43.4	-16.9	-10.933 µg/L	-10.933 ppb	15:14:03
3	Ca 317.933Radial†	234.5	3.4	2.4661 µg/L	2.4661 ppb	15:14:24
3	Fe 238.204 Radial†	17.5	2.4	31.744 µg/L	31.744 ppb	15:14:24
3	K 766.490 Radial†	366.4	-7.1	-4.4751 µg/L	-4.4751 ppb	15:14:03
3	Mg 279.077 IEC†	5.9	-1.9	-19.190 µg/L	-19.190 ppb	15:14:24
3	Na 589.592 Radial†	333.8	-196.9	-52.430 µg/L	-52.430 ppb	15:14:03
3	Sr 421.552†	653.0	63.9	0.3821 µg/L	0.3821 ppb	15:14:03
3	Sc 361.383	1884833.7	1884833.7	95.364 %		15:15:38
3	Y 371.029	1190720.2	1190720.2	95.325 %		15:15:38
3	Ag 328.068†	-133.7	-47.6	-0.4260 µg/L	-0.4260 ppb	15:15:44
3	As 188.979†	-2.0	0.7	1.4665 µg/L	1.4665 ppb	15:16:04
3	B 249.677†	161.6	-200.5	-9.5127 µg/L	-9.5127 ppb	15:16:04
3	Ba 233.527†	-25.0	-2.2	-0.0618 µg/L	-0.0618 ppb	15:16:04
3	Be 313.107†	3859.0	212.8	0.1431 µg/L	0.1431 ppb	15:15:44
3	Cd 226.502†	-120.7	-1.3	-0.0393 µg/L	-0.0393 ppb	15:16:04
3	Co 228.616†	-46.5	0.6	0.0312 µg/L	0.0312 ppb	15:16:04
3	Cr 267.716†	-79.0	19.3	0.4321 µg/L	0.4321 ppb	15:15:44
3	Cu 324.752†	3797.4	82.0	0.6058 µg/L	0.6058 ppb	15:15:44
3	Mn 257.610†	-66.0	78.7	0.2839 µg/L	0.2839 ppb	15:16:04
3	Mo 202.031†	10.0	-2.1	-0.2519 µg/L	-0.2519 ppb	15:16:04
3	Ni 231.604†	325.4	9.8	0.5953 µg/L	0.5953 ppb	15:16:04
3	P 214.914†	220.1	11.0	25.220 µg/L	25.220 ppb	15:16:04
3	Pb 220.353†	54.2	-4.3	-1.2186 µg/L	-1.2186 ppb	15:16:04
3	S 181.975 Axial†	26.5	4.6	25.830 µg/L	25.830 ppb	15:16:04
3	Sb 206.836†	23.3	0.4	0.4458 µg/L	0.4458 ppb	15:16:04
3	Se 196.026†	6.5	-1.1	-1.5708 µg/L	-1.5708 ppb	15:16:04
3	SiO2†	2286.1	7.8	1.5868 µg/L	1.5868 ppb	15:15:44
3	Si 251.611†	286.0	17.5	1.4177 µg/L	1.4177 ppb	15:16:04
3	Sn 189.927†	24.0	1.7	0.9530 µg/L	0.9530 ppb	15:16:04
3	Ti 334.940†	745.3	77.7	0.1894 µg/L	0.1894 ppb	15:15:44
3	Tl 190.801†	-23.7	-0.3	-0.4577 µg/L	-0.4577 ppb	15:16:04
3	U 409.014†	-193.9	-17.1	-1.5951 µg/L	-1.5951 ppb	15:15:44
3	V 292.402†	-87.7	23.4	0.2806 µg/L	0.2806 ppb	15:15:44
3	Zn 213.857†	673.0	73.5	2.0619 µg/L	2.0619 ppb	15:16:04

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1890702.3	95.661 %	0.3060			0.32%
Sc RADIAL	73690.0	93.9 %	0.36			0.38%
Y 371.029	1194197.9	95.604 %	0.3174			0.33%
Ag 328.068†	-50.4	-0.4522 µg/L	0.16666	-0.4522 ppb	0.16666	36.86%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-7.1	-4.6061 µg/L	6.25107	-4.6061 ppb	6.25107	135.71%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.3	2.9133 µg/L	1.42561	2.9133 ppb	1.42561	48.93%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-214.0	-10.147 µg/L	0.6301	-10.147 ppb	0.6301	6.21%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-5.2	-0.1446 µg/L	0.09602	-0.1446 ppb	0.09602	66.41%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	164.3	0.1105 µg/L	0.02905	0.1105 ppb	0.02905	26.29%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	9.5	6.8257 µg/L	4.36318	6.8257 ppb	4.36318	63.92%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-2.6	-0.0756 µg/L	0.07638	-0.0756 ppb	0.07638	100.98%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-3.2	-0.1693 µg/L	0.33487	-0.1693 ppb	0.33487	197.84%

Cr	267.716†	37.2	0.8335 µg/L	0.48789	0.8335 ppb	0.48789	58.53%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	44.3	0.3279 µg/L	0.25131	0.3279 ppb	0.25131	76.64%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	1.8	23.279 µg/L	9.1625	23.279 ppb	9.1625	39.36%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	7.7	4.8439 µg/L	12.48323	4.8439 ppb	12.48323	257.71%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	0.1	0.5657 µg/L	38.62362	0.5657 ppb	38.62362	>999.9%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	68.8	0.2470 µg/L	0.03451	0.2470 ppb	0.03451	13.97%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	4.0	0.4857 µg/L	0.64931	0.4857 ppb	0.64931	133.69%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-141.8	-37.765 µg/L	18.6448	-37.765 ppb	18.6448	49.37%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	2.9	0.1741 µg/L	0.36504	0.1741 ppb	0.36504	209.65%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	11.9	27.318 µg/L	3.7196	27.318 ppb	3.7196	13.62%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	6.2	1.7421 µg/L	2.61722	1.7421 ppb	2.61722	150.23%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	0.6	3.2509 µg/L	21.85471	3.2509 ppb	21.85471	672.27%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	3.0	3.2083 µg/L	5.26359	3.2083 ppb	5.26359	164.06%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	2.9	4.5157 µg/L	13.24624	4.5157 ppb	13.24624	293.34%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		7.3	1.4843 µg/L	0.37938	1.4843 ppb	0.37938	25.56%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	13.9	1.1265 µg/L	0.34960	1.1265 ppb	0.34960	31.04%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	1.6	0.9138 µg/L	0.09679	0.9138 ppb	0.09679	10.59%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	133.2	0.7971 µg/L	0.70146	0.7971 ppb	0.70146	88.00%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	53.1	0.1285 µg/L	0.05643	0.1285 ppb	0.05643	43.92%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-1.3	-2.2138 µg/L	3.96184	-2.2138 ppb	3.96184	178.96%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-15.7	-1.4624 µg/L	2.56546	-1.4624 ppb	2.56546	175.43%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	10.6	0.1331 µg/L	0.17975	0.1331 ppb	0.17975	135.06%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	79.6	2.2348 µg/L	0.14984	2.2348 ppb	0.14984	6.70%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 21
 Sample ID: 1202021499|944077|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 310
 Date Collected: 1/29/2010 15:16:14
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202021499|944077|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	73756.8	73756.8	94.0 %		15:16:53
1	Al 396.153Radial†	-13.0	15.7	10.174 µg/L	10.174 ppb	15:16:53
1	Ca 317.933Radial†	256.1	25.3	18.212 µg/L	18.212 ppb	15:17:13
1	Fe 238.204 Radial†	15.9	0.5	6.9534 µg/L	6.9534 ppb	15:17:13
1	K 766.490 Radial†	341.6	-35.2	-22.208 µg/L	-22.208 ppb	15:16:53
1	Mg 279.077 IEC†	7.8	0.1	0.9289 µg/L	0.9289 ppb	15:17:13
1	Na 589.592 Radial†	342.2	-189.5	-50.464 µg/L	-50.464 ppb	15:16:53
1	Sr 421.552†	646.0	53.3	0.3191 µg/L	0.3191 ppb	15:16:53
1	Sc 361.383	1903149.3	1903149.3	96.291 %		15:18:15
1	Y 371.029	1199166.1	1199166.1	96.002 %		15:18:15
1	Ag 328.068†	-136.5	-49.2	-0.4422 µg/L	-0.4422 ppb	15:18:21
1	As 188.979†	-3.3	-0.7	-1.5549 µg/L	-1.5549 ppb	15:18:41
1	B 249.677†	142.3	-222.2	-10.526 µg/L	-10.526 ppb	15:18:41
1	Ba 233.527†	-25.6	-2.6	-0.0732 µg/L	-0.0732 ppb	15:18:41
1	Be 313.107†	3701.8	10.6	0.0071 µg/L	0.0071 ppb	15:18:21
1	Cd 226.502†	-123.3	-2.8	-0.0805 µg/L	-0.0805 ppb	15:18:41
1	Co 228.616†	-56.6	-9.5	-0.5044 µg/L	-0.5044 ppb	15:18:41
1	Cr 267.716†	-90.5	8.2	0.1840 µg/L	0.1840 ppb	15:18:21
1	Cu 324.752†	3760.2	5.0	0.0379 µg/L	0.0379 ppb	15:18:21
1	Mn 257.610†	-82.4	62.2	0.2215 µg/L	0.2215 ppb	15:18:41
1	Mo 202.031†	14.2	2.1	0.2601 µg/L	0.2601 ppb	15:18:41
1	Ni 231.604†	316.7	-2.6	-0.1544 µg/L	-0.1544 ppb	15:18:41
1	P 214.914†	227.8	16.7	38.458 µg/L	38.458 ppb	15:18:41
1	Pb 220.353†	57.3	-1.6	-0.4628 µg/L	-0.4628 ppb	15:18:41
1	S 181.975 Axial†	21.4	-1.0	-5.2956 µg/L	-5.2956 ppb	15:18:41
1	Sb 206.836†	21.9	-1.2	-1.2996 µg/L	-1.2996 ppb	15:18:41
1	Se 196.026†	15.6	8.3	12.472 µg/L	12.472 ppb	15:18:41
1	SiO2†	2403.5	106.7	21.777 µg/L	21.777 ppb	15:18:21
1	Si 251.611†	376.1	108.1	8.7587 µg/L	8.7587 ppb	15:18:41
1	Sn 189.927†	18.4	-4.3	-2.4471 µg/L	-2.4471 ppb	15:18:41
1	Ti 334.940†	749.7	74.7	0.1807 µg/L	0.1807 ppb	15:18:21
1	Tl 190.801†	-18.3	5.5	9.1716 µg/L	9.1716 ppb	15:18:41
1	U 409.014†	-159.1	20.9	1.9443 µg/L	1.9443 ppb	15:18:21
1	V 292.402†	-93.9	17.8	0.2194 µg/L	0.2194 ppb	15:18:21
1	Zn 213.857†	645.1	37.7	1.0588 µg/L	1.0588 ppb	15:18:41
2	Sc RADIAL	75366.9	75366.9	96.0 %		15:17:19
2	Al 396.153Radial†	-22.5	6.1	3.9420 µg/L	3.9420 ppb	15:17:19
2	Ca 317.933Radial†	244.1	7.0	5.0254 µg/L	5.0254 ppb	15:17:39
2	Fe 238.204 Radial†	15.9	0.2	2.6856 µg/L	2.6856 ppb	15:17:39
2	K 766.490 Radial†	424.3	43.1	27.179 µg/L	27.179 ppb	15:17:19
2	Mg 279.077 IEC†	8.8	1.0	9.8137 µg/L	9.8137 ppb	15:17:39
2	Na 589.592 Radial†	366.1	-172.5	-45.924 µg/L	-45.924 ppb	15:17:19
2	Sr 421.552†	638.1	30.4	0.1817 µg/L	0.1817 ppb	15:17:19
2	Sc 361.383	1923362.2	1923362.2	97.314 %		15:18:47
2	Y 371.029	1211927.3	1211927.3	97.023 %		15:18:47
2	Ag 328.068†	-103.6	-13.9	-0.1268 µg/L	-0.1268 ppb	15:18:53
2	As 188.979†	-4.4	-1.8	-3.9344 µg/L	-3.9344 ppb	15:19:13
2	B 249.677†	146.1	-219.8	-10.411 µg/L	-10.411 ppb	15:19:13
2	Ba 233.527†	-16.1	7.4	0.2060 µg/L	0.2060 ppb	15:19:13
2	Be 313.107†	3754.1	24.0	0.0161 µg/L	0.0161 ppb	15:18:53
2	Cd 226.502†	-132.3	-10.7	-0.3032 µg/L	-0.3032 ppb	15:19:13
2	Co 228.616†	-46.6	1.4	0.0737 µg/L	0.0737 ppb	15:19:13
2	Cr 267.716†	-51.9	48.8	1.0940 µg/L	1.0940 ppb	15:18:53
2	Cu 324.752†	3779.8	-15.9	-0.1159 µg/L	-0.1159 ppb	15:18:53
2	Mn 257.610†	-83.0	62.5	0.2216 µg/L	0.2216 ppb	15:19:13
2	Mo 202.031†	15.4	3.2	0.3882 µg/L	0.3882 ppb	15:19:13
2	Ni 231.604†	321.0	-1.6	-0.0948 µg/L	-0.0948 ppb	15:19:13
2	P 214.914†	221.5	7.7	17.857 µg/L	17.857 ppb	15:19:13
2	Pb 220.353†	60.3	0.8	0.2402 µg/L	0.2402 ppb	15:19:13

2	S 181.975 Axial†	21.5	-1.0	-5.5255 µg/L	-5.5255 ppb	15:19:13
2	Sb 206.836†	25.4	2.1	2.1857 µg/L	2.1857 ppb	15:19:13
2	Se 196.026†	9.7	2.0	3.0618 µg/L	3.0618 ppb	15:19:13
2	SiO2†	2390.6	67.2	13.718 µg/L	13.718 ppb	15:18:53
2	Si 251.611†	394.0	122.5	9.9215 µg/L	9.9215 ppb	15:19:13
2	Sn 189.927†	26.4	3.7	2.0836 µg/L	2.0836 ppb	15:19:13
2	Ti 334.940†	753.3	70.2	0.1690 µg/L	0.1690 ppb	15:18:53
2	Tl 190.801†	-23.3	0.5	0.8801 µg/L	0.8801 ppb	15:19:13
2	U 409.014†	-279.6	-101.1	-9.3953 µg/L	-9.3953 ppb	15:18:53
2	V 292.402†	-133.2	-21.6	-0.2634 µg/L	-0.2634 ppb	15:18:53
2	Zn 213.857†	633.5	18.8	0.5270 µg/L	0.5270 ppb	15:19:13
3	Sc RADIAL	74449.4	74449.4	94.9 %		15:17:45
3	Al 396.153Radial†	-25.2	3.0	1.9043 µg/L	1.9043 ppb	15:17:45
3	Ca 317.933Radial†	246.3	12.5	8.9741 µg/L	8.9741 ppb	15:18:05
3	Fe 238.204 Radial†	15.5	-0.0	-0.5676 µg/L	-0.5676 ppb	15:18:05
3	K 766.490 Radial†	365.8	-13.1	-8.2925 µg/L	-8.2925 ppb	15:17:45
3	Mg 279.077 IEC†	10.2	2.6	26.779 µg/L	26.779 ppb	15:18:05
3	Na 589.592 Radial†	354.4	-180.1	-47.952 µg/L	-47.952 ppb	15:17:45
3	Sr 421.552†	688.1	91.3	0.5460 µg/L	0.5460 ppb	15:17:45
3	Sc 361.383	1925321.5	1925321.5	97.413 %		15:19:19
3	Y 371.029	1213213.3	1213213.3	97.126 %		15:19:19
3	Ag 328.068†	-150.2	-61.6	-0.5543 µg/L	-0.5543 ppb	15:19:25
3	As 188.979†	-0.7	2.0	4.3900 µg/L	4.3900 ppb	15:19:45
3	B 249.677†	145.6	-220.5	-10.441 µg/L	-10.441 ppb	15:19:45
3	Ba 233.527†	-26.3	-3.0	-0.0831 µg/L	-0.0831 ppb	15:19:45
3	Be 313.107†	3796.4	63.4	0.0425 µg/L	0.0425 ppb	15:19:25
3	Cd 226.502†	-125.7	-3.7	-0.1054 µg/L	-0.1054 ppb	15:19:45
3	Co 228.616†	-41.6	6.6	0.3492 µg/L	0.3492 ppb	15:19:45
3	Cr 267.716†	-55.9	44.8	1.0032 µg/L	1.0032 ppb	15:19:25
3	Cu 324.752†	3794.1	-5.1	-0.0375 µg/L	-0.0375 ppb	15:19:25
3	Mn 257.610†	-65.8	80.3	0.2834 µg/L	0.2834 ppb	15:19:45
3	Mo 202.031†	20.4	8.3	1.0066 µg/L	1.0066 ppb	15:19:45
3	Ni 231.604†	326.7	4.0	0.2388 µg/L	0.2388 ppb	15:19:45
3	P 214.914†	230.1	16.4	37.911 µg/L	37.911 ppb	15:19:45
3	Pb 220.353†	63.8	4.3	1.2213 µg/L	1.2213 ppb	15:19:45
3	S 181.975 Axial†	23.5	1.0	5.7469 µg/L	5.7469 ppb	15:19:45
3	Sb 206.836†	24.1	0.7	0.7234 µg/L	0.7234 ppb	15:19:45
3	Se 196.026†	10.6	2.9	4.3623 µg/L	4.3623 ppb	15:19:45
3	SiO2†	2377.0	50.8	10.366 µg/L	10.366 ppb	15:19:25
3	Si 251.611†	376.7	104.3	8.4474 µg/L	8.4474 ppb	15:19:45
3	Sn 189.927†	29.4	6.7	3.7860 µg/L	3.7860 ppb	15:19:45
3	Ti 334.940†	853.5	172.3	0.4145 µg/L	0.4145 ppb	15:19:25
3	Tl 190.801†	-20.3	3.7	6.2163 µg/L	6.2163 ppb	15:19:45
3	U 409.014†	-171.8	9.9	0.9173 µg/L	0.9173 ppb	15:19:25
3	V 292.402†	-88.0	24.9	0.3111 µg/L	0.3111 ppb	15:19:25
3	Zn 213.857†	645.1	30.0	0.8404 µg/L	0.8404 ppb	15:19:45

Mean Data: 1202021499|944077|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1917277.7	97.006 %		0.6210			0.64%
Sc RADIAL	74524.4	95.0 %		1.03			1.08%
Y 371.029	1208102.2	96.717 %		0.6217			0.64%
Ag 328.068†	-41.6	-0.3745 µg/L		0.22166	-0.3745 ppb	0.22166	59.19%
Al 396.153Radial†	8.3	5.3400 µg/L		4.30833	5.3400 ppb	4.30833	80.68%
As 188.979†	-0.2	-0.3665 µg/L		4.28757	-0.3665 ppb	4.28757	>999.9%
B 249.677†	-220.8	-10.459 µg/L		0.0597	-10.459 ppb	0.0597	0.57%
Ba 233.527†	0.6	0.0166 µg/L		0.16413	0.0166 ppb	0.16413	990.45%
Be 313.107†	32.7	0.0219 µg/L		0.01843	0.0219 ppb	0.01843	84.23%
Ca 317.933Radial†	14.9	10.737 µg/L		6.7679	10.737 ppb	6.7679	63.03%
Cd 226.502†	-5.7	-0.1630 µg/L		0.12205	-0.1630 ppb	0.12205	74.85%
Co 228.616†	-0.5	-0.0272 µg/L		0.43565	-0.0272 ppb	0.43565	>999.9%
Cr 267.716†	33.9	0.7604 µg/L		0.50125	0.7604 ppb	0.50125	65.92%
Cu 324.752†	-5.3	-0.0385 µg/L		0.07695	-0.0385 ppb	0.07695	199.90%
Fe 238.204 Radial†	0.2	3.0238 µg/L		3.77188	3.0238 ppb	3.77188	124.74%
K 766.490 Radial†	-1.8	-1.1071 µg/L		25.46533	-1.1071 ppb	25.46533	>999.9%
Mg 279.077 IEC†	1.2	12.507 µg/L		13.1337	12.507 ppb	13.1337	105.01%
Mn 257.610†	68.4	0.2422 µg/L		0.03572	0.2422 ppb	0.03572	14.75%
Mo 202.031†	4.6	0.5516 µg/L		0.39916	0.5516 ppb	0.39916	72.36%
Na 589.592 Radial†	-180.7	-48.113 µg/L		2.2742	-48.113 ppb	2.2742	4.73%

Ni 231.604†	-0.1	-0.0035 µg/L	0.21195	-0.0035 ppb	0.21195 >999.9%
P 214.914†	13.6	31.408 µg/L	11.7394	31.408 ppb	11.7394 37.38%
Pb 220.353†	1.2	0.3329 µg/L	0.84586	0.3329 ppb	0.84586 254.10%
S 181.975 Axial†	-0.3	-1.6914 µg/L	6.44276	-1.6914 ppb	6.44276 380.91%
Sb 206.836†	0.5	0.5365 µg/L	1.75017	0.5365 ppb	1.75017 326.21%
Se 196.026†	4.4	6.6319 µg/L	5.09893	6.6319 ppb	5.09893 76.89%
SiO2†	74.9	15.287 µg/L	5.8652	15.287 ppb	5.8652 38.37%
Si 251.611†	111.6	9.0425 µg/L	0.77698	9.0425 ppb	0.77698 8.59%
Sn 189.927†	2.0	1.1408 µg/L	3.22172	1.1408 ppb	3.22172 282.40%
Sr 421.552†	58.3	0.3489 µg/L	0.18398	0.3489 ppb	0.18398 52.73%
Ti 334.940†	105.7	0.2547 µg/L	0.13849	0.2547 ppb	0.13849 54.37%
Tl 190.801†	3.3	5.4227 µg/L	4.20234	5.4227 ppb	4.20234 77.50%
U 409.014†	-23.4	-2.1779 µg/L	6.27152	-2.1779 ppb	6.27152 287.96%
V 292.402†	7.1	0.0890 µg/L	0.30867	0.0890 ppb	0.30867 346.73%
Zn 213.857†	28.8	0.8087 µg/L	0.26727	0.8087 ppb	0.26727 33.05%

Sequence No.: 22

Sample ID: 1202021500|944077|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 311

Date Collected: 1/29/2010 15:19:55

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021500|944077|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	75896.4	75896.4	96.7 %		15:20:27
1	Al 396.153Radial†	7756.3	8049.9	5202.8 µg/L	5202.8 ppb	15:20:27
1	Ca 317.933Radial†	7104.7	7099.5	5115.5 µg/L	5115.5 ppb	15:20:27
1	Fe 238.204 Radial†	398.8	396.0	5254.9 µg/L	5254.9 ppb	15:20:47
1	K 766.490 Radial†	8528.4	8420.1	5312.3 µg/L	5312.3 ppb	15:20:27
1	Mg 279.077 IEC†	507.2	516.3	5301.8 µg/L	5301.8 ppb	15:20:47
1	Na 589.592 Radial†	18842.9	18930.8	5040.0 µg/L	5040.0 ppb	15:20:27
1	Sr 421.552†	85596.5	87876.8	525.67 µg/L	525.67 ppb	15:20:27
1	Sc 361.383	1918150.3	1918150.3	97.050 %		15:21:51
1	Y 371.029	1205751.8	1205751.8	96.529 %		15:21:51
1	Ag 328.068†	56685.4	58501.1	531.95 µg/L	531.95 ppb	15:21:57
1	As 188.979†	240.6	250.6	545.30 µg/L	545.30 ppb	15:22:17
1	B 249.677†	10897.4	10858.7	512.47 µg/L	512.47 ppb	15:21:57
1	Ba 233.527†	18678.6	19270.3	539.25 µg/L	539.25 ppb	15:21:57
1	Be 313.107†	769499.7	789055.8	530.70 µg/L	530.70 ppb	15:21:51
1	Cd 226.502†	17873.7	18542.3	525.31 µg/L	525.31 ppb	15:21:57
1	Co 228.616†	9549.4	9889.0	525.42 µg/L	525.42 ppb	15:21:57
1	Cr 267.716†	23229.9	24038.1	538.96 µg/L	538.96 ppb	15:21:57
1	Cu 324.752†	75587.4	73985.0	543.21 µg/L	543.21 ppb	15:21:57
1	Mn 257.610†	146401.3	150999.2	535.71 µg/L	535.71 ppb	15:21:51
1	Mo 202.031†	4230.6	4346.6	526.77 µg/L	526.77 ppb	15:22:17
1	Ni 231.604†	8950.7	8891.4	537.80 µg/L	537.80 ppb	15:21:57
1	P 214.914†	482.7	277.5	588.04 µg/L	588.04 ppb	15:22:17
1	Pb 220.353†	1942.0	1939.9	544.30 µg/L	544.30 ppb	15:22:17
1	S 181.975 Axial†	959.7	965.7	5369.1 µg/L	5369.1 ppb	15:22:17
1	Sb 206.836†	520.6	512.4	544.05 µg/L	544.05 ppb	15:22:17
1	Se 196.026†	337.7	340.0	530.87 µg/L	530.87 ppb	15:22:17
1	SiO2†	55490.7	54788.0	11186 µg/L	11186 ppb	15:21:57
1	Si 251.611†	62705.4	64329.0	5210.9 µg/L	5210.9 ppb	15:21:57
1	Sn 189.927†	1012.7	1020.0	577.56 µg/L	577.56 ppb	15:22:17
1	Ti 334.940†	215073.7	220907.3	533.67 µg/L	533.67 ppb	15:21:51
1	Tl 190.801†	286.3	319.5	536.76 µg/L	536.76 ppb	15:22:17
1	U 409.014†	5569.2	5924.7	549.64 µg/L	549.64 ppb	15:21:57
1	V 292.402†	43596.9	45037.4	548.06 µg/L	548.06 ppb	15:21:57
1	Zn 213.857†	18788.1	18726.9	522.61 µg/L	522.61 ppb	15:21:57
2	Sc RADIAL	76276.6	76276.6	97.2 %		15:20:53
2	Al 396.153Radial†	7812.9	8068.1	5214.5 µg/L	5214.5 ppb	15:20:53
2	Ca 317.933Radial†	7100.2	7058.2	5085.7 µg/L	5085.7 ppb	15:20:53
2	Fe 238.204 Radial†	404.7	400.1	5309.0 µg/L	5309.0 ppb	15:21:13
2	K 766.490 Radial†	8592.5	8442.1	5326.2 µg/L	5326.2 ppb	15:20:53
2	Mg 279.077 IEC†	503.1	509.5	5231.9 µg/L	5231.9 ppb	15:21:13
2	Na 589.592 Radial†	19030.1	19026.2	5065.4 µg/L	5065.4 ppb	15:20:53
2	Sr 421.552†	86189.6	88045.8	526.68 µg/L	526.68 ppb	15:20:53
2	Sc 361.383	1916483.6	1916483.6	96.966 %		15:22:25
2	Y 371.029	1205299.1	1205299.1	96.493 %		15:22:25
2	Ag 328.068†	57083.4	58962.2	536.14 µg/L	536.14 ppb	15:22:30
2	As 188.979†	245.8	256.2	557.36 µg/L	557.36 ppb	15:22:51
2	B 249.677†	10944.9	10917.5	515.23 µg/L	515.23 ppb	15:22:30
2	Ba 233.527†	18817.2	19430.0	543.72 µg/L	543.72 ppb	15:22:30
2	Be 313.107†	763213.9	783262.8	526.80 µg/L	526.80 ppb	15:22:25
2	Cd 226.502†	17966.1	18653.6	528.46 µg/L	528.46 ppb	15:22:30
2	Co 228.616†	9624.7	9975.2	530.02 µg/L	530.02 ppb	15:22:30
2	Cr 267.716†	23395.2	24229.4	543.24 µg/L	543.24 ppb	15:22:30
2	Cu 324.752†	76095.0	74576.2	547.56 µg/L	547.56 ppb	15:22:30
2	Mn 257.610†	145442.4	150141.5	532.68 µg/L	532.68 ppb	15:22:25
2	Mo 202.031†	4265.5	4386.4	531.59 µg/L	531.59 ppb	15:22:51
2	Ni 231.604†	9007.6	8958.1	541.83 µg/L	541.83 ppb	15:22:30
2	P 214.914†	482.8	278.1	588.80 µg/L	588.80 ppb	15:22:51
2	Pb 220.353†	1955.7	1955.7	548.74 µg/L	548.74 ppb	15:22:51

2	S 181.975 Axial†	964.7	971.8	5402.8 µg/L	5402.8 ppb	15:22:51
2	Sb 206.836†	522.0	514.3	546.05 µg/L	546.05 ppb	15:22:51
2	Se 196.026†	334.2	336.7	526.14 µg/L	526.14 ppb	15:22:51
2	SiO2†	55957.8	55319.4	11295 µg/L	11295 ppb	15:22:30
2	Si 251.611†	63189.7	64884.7	5256.0 µg/L	5256.0 ppb	15:22:30
2	Sn 189.927†	1013.5	1021.7	578.52 µg/L	578.52 ppb	15:22:51
2	Ti 334.940†	213422.3	219396.9	530.02 µg/L	530.02 ppb	15:22:25
2	Tl 190.801†	290.3	323.9	544.01 µg/L	544.01 ppb	15:22:51
2	U 409.014†	5705.2	6069.9	563.13 µg/L	563.13 ppb	15:22:30
2	V 292.402†	43893.8	45382.6	552.28 µg/L	552.28 ppb	15:22:30
2	Zn 213.857†	18961.3	18922.4	528.09 µg/L	528.09 ppb	15:22:30
3	Sc RADIAL	76173.6	76173.6	97.1 %		15:21:19
3	Al 396.153Radial†	7766.2	8030.9	5191.1 µg/L	5191.1 ppb	15:21:19
3	Ca 317.933Radial†	7080.5	7047.8	5078.3 µg/L	5078.3 ppb	15:21:19
3	Fe 238.204 Radial†	401.9	397.7	5277.8 µg/L	5277.8 ppb	15:21:40
3	K 766.490 Radial†	8525.1	8384.6	5289.9 µg/L	5289.9 ppb	15:21:19
3	Mg 279.077 IEC†	501.4	508.4	5220.4 µg/L	5220.4 ppb	15:21:40
3	Na 589.592 Radial†	18897.6	18916.2	5036.1 µg/L	5036.1 ppb	15:21:19
3	Sr 421.552†	85697.4	87658.6	524.37 µg/L	524.37 ppb	15:21:19
3	Sc 361.383	1915019.6	1915019.6	96.892 %		15:22:58
3	Y 371.029	1204557.3	1204557.3	96.433 %		15:22:58
3	Ag 328.068†	56301.8	58200.6	529.17 µg/L	529.17 ppb	15:23:03
3	As 188.979†	227.8	237.9	517.52 µg/L	517.52 ppb	15:23:24
3	B 249.677†	10826.8	10804.2	509.85 µg/L	509.85 ppb	15:23:03
3	Ba 233.527†	18342.9	18955.3	530.43 µg/L	530.43 ppb	15:23:03
3	Be 313.107†	760459.4	781021.7	525.30 µg/L	525.30 ppb	15:22:58
3	Cd 226.502†	17524.6	18212.1	515.94 µg/L	515.94 ppb	15:23:03
3	Co 228.616†	9358.2	9707.7	515.77 µg/L	515.77 ppb	15:23:03
3	Cr 267.716†	22624.0	23451.9	525.81 µg/L	525.81 ppb	15:23:03
3	Cu 324.752†	74141.2	72619.8	533.21 µg/L	533.21 ppb	15:23:03
3	Mn 257.610†	144788.7	149581.5	530.69 µg/L	530.69 ppb	15:22:58
3	Mo 202.031†	4004.9	4120.8	499.41 µg/L	499.41 ppb	15:23:24
3	Ni 231.604†	8704.7	8652.6	523.35 µg/L	523.35 ppb	15:23:03
3	P 214.914†	471.5	266.8	563.86 µg/L	563.86 ppb	15:23:24
3	Pb 220.353†	1880.1	1879.3	527.24 µg/L	527.24 ppb	15:23:24
3	S 181.975 Axial†	935.8	942.7	5241.1 µg/L	5241.1 ppb	15:23:24
3	Sb 206.836†	501.6	493.7	523.90 µg/L	523.90 ppb	15:23:24
3	Se 196.026†	321.8	324.2	507.24 µg/L	507.24 ppb	15:23:24
3	SiO2†	54843.9	54214.0	11069 µg/L	11069 ppb	15:23:03
3	Si 251.611†	61871.3	63573.7	5149.8 µg/L	5149.8 ppb	15:23:03
3	Sn 189.927†	950.2	957.2	542.16 µg/L	542.16 ppb	15:23:24
3	Ti 334.940†	212468.6	218580.9	528.05 µg/L	528.05 ppb	15:22:58
3	Tl 190.801†	283.0	316.6	531.92 µg/L	531.92 ppb	15:23:24
3	U 409.014†	5443.0	5803.9	538.41 µg/L	538.41 ppb	15:23:03
3	V 292.402†	42636.9	44120.1	536.77 µg/L	536.77 ppb	15:23:03
3	Zn 213.857†	18434.7	18393.8	513.34 µg/L	513.34 ppb	15:23:03

Mean Data: 1202021500|944077|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1916551.2	96.969 %	0.0793			0.08%
Sc RADIAL	76115.5	97.0 %	0.25			0.26%
Y 371.029	1205202.7	96.485 %	0.0483			0.05%
Ag 328.068†	58554.6	532.42 µg/L	3.512	532.42 ppb	3.512	0.66%
Al 396.153Radial†	8049.6	5202.8 µg/L	11.72	5202.8 ppb	11.72	0.23%
As 188.979†	248.2	540.06 µg/L	20.430	540.06 ppb	20.430	3.78%
B 249.677†	10860.1	512.52 µg/L	2.690	512.52 ppb	2.690	0.52%
Ba 233.527†	19218.5	537.80 µg/L	6.761	537.80 ppb	6.761	1.26%
Be 313.107†	784446.8	527.60 µg/L	2.788	527.60 ppb	2.788	0.53%
Ca 317.933Radial†	7068.5	5093.2 µg/L	19.69	5093.2 ppb	19.69	0.39%
Cd 226.502†	18469.3	523.24 µg/L	6.515	523.24 ppb	6.515	1.25%
Co 228.616†	9857.3	523.74 µg/L	7.273	523.74 ppb	7.273	1.39%
Cr 267.716†	23906.5	536.00 µg/L	9.082	536.00 ppb	9.082	1.69%
Cu 324.752†	73727.0	541.33 µg/L	7.359	541.33 ppb	7.359	1.36%
Fe 238.204 Radial†	397.9	5280.6 µg/L	27.15	5280.6 ppb	27.15	0.51%
K 766.490 Radial†	8415.6	5309.4 µg/L	18.31	5309.4 ppb	18.31	0.34%
Mg 279.077 IEC†	511.4	5251.3 µg/L	44.06	5251.3 ppb	44.06	0.84%
Mn 257.610†	150240.7	533.03 µg/L	2.527	533.03 ppb	2.527	0.47%
Mo 202.031†	4284.6	519.26 µg/L	17.354	519.26 ppb	17.354	3.34%
Na 589.592 Radial†	18957.7	5047.2 µg/L	15.91	5047.2 ppb	15.91	0.32%

Ni 231.604†	8834.0	534.33 µg/L	9.718	534.33 ppb	9.718	1.82%
P 214.914†	274.1	580.23 µg/L	14.183	580.23 ppb	14.183	2.44%
Pb 220.353†	1925.0	540.10 µg/L	11.348	540.10 ppb	11.348	2.10%
S 181.975 Axial†	960.1	5337.7 µg/L	85.29	5337.7 ppb	85.29	1.60%
Sb 206.836†	506.8	538.00 µg/L	12.253	538.00 ppb	12.253	2.28%
Se 196.026†	333.6	521.42 µg/L	12.500	521.42 ppb	12.500	2.40%
SiO2†	54773.8	11184 µg/L	112.9	11184 ppb	112.9	1.01%
Si 251.611†	64262.5	5205.6 µg/L	53.30	5205.6 ppb	53.30	1.02%
Sn 189.927†	999.6	566.08 µg/L	20.720	566.08 ppb	20.720	3.66%
Sr 421.552†	87860.4	525.57 µg/L	1.161	525.57 ppb	1.161	0.22%
Ti 334.940†	219628.3	530.58 µg/L	2.850	530.58 ppb	2.850	0.54%
Tl 190.801†	320.0	537.56 µg/L	6.085	537.56 ppb	6.085	1.13%
U 409.014†	5932.9	550.39 µg/L	12.380	550.39 ppb	12.380	2.25%
V 292.402†	44846.7	545.71 µg/L	8.018	545.71 ppb	8.018	1.47%
Zn 213.857†	18681.0	521.35 µg/L	7.457	521.35 ppb	7.457	1.43%

Sequence No.: 24

Sample ID: 1202021501|944077|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 313

Date Collected: 1/29/2010 15:27:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021501|944077|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74940.2	74940.2	95.5 %		15:27:41
1	Al 396.153Radial†	10.0	40.0	25.873 µg/L	25.873 ppb	15:27:41
1	Ca 317.933Radial†	287.3	53.7	38.713 µg/L	38.713 ppb	15:28:01
1	Fe 238.204 Radial†	18.9	3.4	45.076 µg/L	45.076 ppb	15:28:01
1	K 766.490 Radial†	559.6	187.4	118.22 µg/L	118.22 ppb	15:27:41
1	Mg 279.077 IEC†	8.2	0.4	4.0328 µg/L	4.0328 ppb	15:28:01
1	Na 589.592 Radial†	631.3	107.4	28.603 µg/L	28.603 ppb	15:27:41
1	Sr 421.552†	682.6	80.9	0.4837 µg/L	0.4837 ppb	15:27:41
1	Sc 361.383	1907886.1	1907886.1	96.531 %		15:29:03
1	Y 371.029	1201083.7	1201083.7	96.155 %		15:29:03
1	Ag 328.068†	-102.2	-13.2	-0.1196 µg/L	-0.1196 ppb	15:29:09
1	As 188.979†	-3.5	-0.9	-1.9590 µg/L	-1.9590 ppb	15:29:29
1	B 249.677†	468.8	115.7	5.4568 µg/L	5.4568 ppb	15:29:09
1	Ba 233.527†	-9.2	14.5	0.4029 µg/L	0.4029 ppb	15:29:29
1	Be 313.107†	3772.9	74.7	0.0500 µg/L	0.0500 ppb	15:29:09
1	Cd 226.502†	-125.8	-5.1	-0.1471 µg/L	-0.1471 ppb	15:29:29
1	Co 228.616†	-55.5	-8.2	-0.4375 µg/L	-0.4375 ppb	15:29:29
1	Cr 267.716†	-52.5	47.7	1.0694 µg/L	1.0694 ppb	15:29:29
1	Cu 324.752†	3907.9	148.4	1.0946 µg/L	1.0946 ppb	15:29:09
1	Mn 257.610†	81.3	232.0	0.8283 µg/L	0.8283 ppb	15:29:29
1	Mo 202.031†	13.2	1.1	0.1387 µg/L	0.1387 ppb	15:29:29
1	Ni 231.604†	343.6	24.6	1.4897 µg/L	1.4897 ppb	15:29:29
1	P 214.914†	234.7	23.3	53.663 µg/L	53.663 ppb	15:29:29
1	Pb 220.353†	59.9	0.9	0.2334 µg/L	0.2334 ppb	15:29:29
1	S 181.975 Axial†	27.3	5.1	28.510 µg/L	28.510 ppb	15:29:29
1	Sb 206.836†	26.9	3.8	4.0184 µg/L	4.0184 ppb	15:29:29
1	Se 196.026†	10.0	2.5	3.8853 µg/L	3.8853 ppb	15:29:29
1	SiO2†	13170.0	11254.0	2297.8 µg/L	2297.8 ppb	15:29:09
1	Si 251.611†	13005.7	13190.7	1068.5 µg/L	1068.5 ppb	15:29:09
1	Sn 189.927†	28.9	6.5	3.6700 µg/L	3.6700 ppb	15:29:29
1	Ti 334.940†	979.9	311.2	0.7527 µg/L	0.7527 ppb	15:29:09
1	Tl 190.801†	-23.7	-0.0	-0.0537 µg/L	-0.0537 ppb	15:29:29
1	U 409.014†	-121.3	60.5	5.6158 µg/L	5.6158 ppb	15:29:09
1	V 292.402†	-147.0	-37.0	-0.4333 µg/L	-0.4333 ppb	15:29:09
1	Zn 213.857†	660.5	51.9	1.4492 µg/L	1.4492 ppb	15:29:29
2	Sc RADIAL	74151.3	74151.3	94.5 %		15:28:07
2	Al 396.153Radial†	-1.7	27.7	17.923 µg/L	17.923 ppb	15:28:07
2	Ca 317.933Radial†	282.3	51.7	37.218 µg/L	37.218 ppb	15:28:27
2	Fe 238.204 Radial†	19.9	4.7	62.195 µg/L	62.195 ppb	15:28:27
2	K 766.490 Radial†	556.3	190.0	119.90 µg/L	119.90 ppb	15:28:07
2	Mg 279.077 IEC†	11.2	3.7	38.163 µg/L	38.163 ppb	15:28:27
2	Na 589.592 Radial†	620.8	103.3	27.513 µg/L	27.513 ppb	15:28:07
2	Sr 421.552†	676.3	81.7	0.4888 µg/L	0.4888 ppb	15:28:07
2	Sc 361.383	1914893.0	1914893.0	96.885 %		15:29:35
2	Y 371.029	1205818.6	1205818.6	96.534 %		15:29:35
2	Ag 328.068†	-113.4	-24.5	-0.2185 µg/L	-0.2185 ppb	15:29:40
2	As 188.979†	-2.9	-0.2	-0.4890 µg/L	-0.4890 ppb	15:30:01
2	B 249.677†	459.6	104.5	4.9181 µg/L	4.9181 ppb	15:29:40
2	Ba 233.527†	-13.5	10.0	0.2801 µg/L	0.2801 ppb	15:30:01
2	Be 313.107†	3764.8	52.1	0.0348 µg/L	0.0348 ppb	15:29:40
2	Cd 226.502†	-122.2	-0.9	-0.0305 µg/L	-0.0305 ppb	15:30:01
2	Co 228.616†	-50.5	-2.8	-0.1512 µg/L	-0.1512 ppb	15:30:01
2	Cr 267.716†	-55.6	44.8	1.0030 µg/L	1.0030 ppb	15:30:01
2	Cu 324.752†	3918.7	144.7	1.0694 µg/L	1.0694 ppb	15:29:40
2	Mn 257.610†	79.7	230.1	0.8223 µg/L	0.8223 ppb	15:30:01
2	Mo 202.031†	11.7	-0.5	-0.0590 µg/L	-0.0590 ppb	15:30:01
2	Ni 231.604†	334.4	13.8	0.8356 µg/L	0.8356 ppb	15:30:01
2	P 214.914†	232.0	19.7	45.162 µg/L	45.162 ppb	15:30:01
2	Pb 220.353†	62.5	3.4	0.9328 µg/L	0.9328 ppb	15:30:01

2	S 181.975 Axial†	33.3	11.3	62.596 µg/L	62.596 ppb	15:30:01
2	Sb 206.836†	27.7	4.5	4.7823 µg/L	4.7823 ppb	15:30:01
2	Se 196.026†	6.3	-1.4	-1.9210 µg/L	-1.9210 ppb	15:30:01
2	SiO2†	13054.4	11084.6	2263.2 µg/L	2263.2 ppb	15:29:40
2	Si 251.611†	12894.8	13027.0	1055.2 µg/L	1055.2 ppb	15:29:40
2	Sn 189.927†	24.7	2.0	1.1562 µg/L	1.1562 ppb	15:30:01
2	Ti 334.940†	977.3	304.9	0.7346 µg/L	0.7346 ppb	15:29:40
2	Tl 190.801†	-22.0	1.8	3.0834 µg/L	3.0834 ppb	15:30:01
2	U 409.014†	-65.5	118.6	11.012 µg/L	11.012 ppb	15:29:40
2	V 292.402†	-128.4	-17.2	-0.1899 µg/L	-0.1899 ppb	15:29:40
2	Zn 213.857†	664.0	53.1	1.4825 µg/L	1.4825 ppb	15:30:01
3	Sc RADIAL	74597.1	74597.1	95.1 %		15:28:33
3	Al 396.153Radial†	15.2	45.5	29.469 µg/L	29.469 ppb	15:28:33
3	Ca 317.933Radial†	291.8	59.8	43.076 µg/L	43.076 ppb	15:28:53
3	Fe 238.204 Radial†	17.4	2.0	26.290 µg/L	26.290 ppb	15:28:53
3	K 766.490 Radial†	567.7	198.6	125.29 µg/L	125.29 ppb	15:28:33
3	Mg 279.077 IEC†	8.8	1.1	11.302 µg/L	11.302 ppb	15:28:53
3	Na 589.592 Radial†	620.0	98.6	26.263 µg/L	26.263 ppb	15:28:33
3	Sr 421.552†	662.5	63.0	0.3767 µg/L	0.3767 ppb	15:28:33
3	Sc 361.383	1916579.1	1916579.1	96.971 %		15:30:07
3	Y 371.029	1205973.6	1205973.6	96.547 %		15:30:07
3	Ag 328.068†	-110.9	-21.7	-0.1959 µg/L	-0.1959 ppb	15:30:12
3	As 188.979†	-3.1	-0.5	-1.0448 µg/L	-1.0448 ppb	15:30:33
3	B 249.677†	441.9	85.7	4.0483 µg/L	4.0483 ppb	15:30:12
3	Ba 233.527†	-25.3	-2.1	-0.0603 µg/L	-0.0603 ppb	15:30:33
3	Be 313.107†	3758.7	42.4	0.0283 µg/L	0.0283 ppb	15:30:12
3	Cd 226.502†	-121.1	0.4	0.0084 µg/L	0.0084 ppb	15:30:33
3	Co 228.616†	-46.0	1.9	0.1000 µg/L	0.1000 ppb	15:30:33
3	Cr 267.716†	-75.9	23.8	0.5340 µg/L	0.5340 ppb	15:30:33
3	Cu 324.752†	3912.7	135.0	0.9935 µg/L	0.9935 ppb	15:30:12
3	Mn 257.610†	71.2	221.2	0.7872 µg/L	0.7872 ppb	15:30:33
3	Mo 202.031†	16.5	4.4	0.5325 µg/L	0.5325 ppb	15:30:33
3	Ni 231.604†	323.0	1.6	0.0990 µg/L	0.0990 ppb	15:30:33
3	P 214.914†	226.9	14.1	32.441 µg/L	32.441 ppb	15:30:33
3	Pb 220.353†	62.0	2.8	0.7788 µg/L	0.7788 ppb	15:30:33
3	S 181.975 Axial†	27.4	5.2	28.723 µg/L	28.723 ppb	15:30:33
3	Sb 206.836†	21.1	-2.2	-2.3300 µg/L	-2.3300 ppb	15:30:33
3	Se 196.026†	10.1	2.4	3.7622 µg/L	3.7622 ppb	15:30:33
3	SiO2†	12878.4	10891.3	2223.7 µg/L	2223.7 ppb	15:30:12
3	Si 251.611†	12715.3	12830.1	1039.3 µg/L	1039.3 ppb	15:30:12
3	Sn 189.927†	28.0	5.5	3.0933 µg/L	3.0933 ppb	15:30:33
3	Ti 334.940†	914.0	238.7	0.5768 µg/L	0.5768 ppb	15:30:12
3	Tl 190.801†	-20.8	3.1	5.1915 µg/L	5.1915 ppb	15:30:33
3	U 409.014†	-185.4	-5.0	-0.4709 µg/L	-0.4709 ppb	15:30:12
3	V 292.402†	-129.6	-18.3	-0.2144 µg/L	-0.2144 ppb	15:30:12
3	Zn 213.857†	664.3	52.8	1.4792 µg/L	1.4792 ppb	15:30:33

Mean Data: 1202021501|944077|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1913119.4	96.796 %	0.2332			0.24%
Sc RADIAL	74562.9	95.0 %	0.50			0.53%
Y 371.029	1204292.0	96.412 %	0.2225			0.23%
Ag 328.068†	-19.8	-0.1780 µg/L	0.05181	-0.1780 ppb	0.05181	29.11%
Al 396.153Radial†	37.7	24.421 µg/L	5.9086	24.421 ppb	5.9086	24.19%
As 188.979†	-0.5	-1.1643 µg/L	0.74223	-1.1643 ppb	0.74223	63.75%
B 249.677†	102.0	4.8077 µg/L	0.71071	4.8077 ppb	0.71071	14.78%
Ba 233.527†	7.4	0.2076 µg/L	0.24000	0.2076 ppb	0.24000	115.63%
Be 313.107†	56.4	0.0377 µg/L	0.01114	0.0377 ppb	0.01114	29.58%
Ca 317.933Radial†	55.1	39.669 µg/L	3.0436	39.669 ppb	3.0436	7.67%
Cd 226.502†	-1.8	-0.0564 µg/L	0.08091	-0.0564 ppb	0.08091	143.42%
Co 228.616†	-3.0	-0.1629 µg/L	0.26891	-0.1629 ppb	0.26891	165.09%
Cr 267.716†	38.8	0.8688 µg/L	0.29182	0.8688 ppb	0.29182	33.59%
Cu 324.752†	142.7	1.0525 µg/L	0.05262	1.0525 ppb	0.05262	5.00%
Fe 238.204 Radial†	3.4	44.520 µg/L	17.9588	44.520 ppb	17.9588	40.34%
K 766.490 Radial†	192.0	121.13 µg/L	3.693	121.13 ppb	3.693	3.05%
Mg 279.077 IEC†	1.7	17.833 µg/L	17.9779	17.833 ppb	17.9779	100.81%
Mn 257.610†	227.8	0.8126 µg/L	0.02218	0.8126 ppb	0.02218	2.73%
Mo 202.031†	1.7	0.2041 µg/L	0.30112	0.2041 ppb	0.30112	147.55%
Na 589.592 Radial†	103.1	27.460 µg/L	1.1710	27.460 ppb	1.1710	4.26%

Ni 231.604†	13.3	0.8081 µg/L	0.69576	0.8081 ppb	0.69576	86.10%
P 214.914†	19.0	43.755 µg/L	10.6812	43.755 ppb	10.6812	24.41%
Pb 220.353†	2.3	0.6483 µg/L	0.36746	0.6483 ppb	0.36746	56.68%
S 181.975 Axial†	7.2	39.943 µg/L	19.6187	39.943 ppb	19.6187	49.12%
Sb 206.836†	2.0	2.1569 µg/L	3.90447	2.1569 ppb	3.90447	181.02%
Se 196.026†	1.2	1.9088 µg/L	3.31730	1.9088 ppb	3.31730	173.79%
SiO2†	11076.6	2261.6 µg/L	37.05	2261.6 ppb	37.05	1.64%
Si 251.611†	13015.9	1054.3 µg/L	14.62	1054.3 ppb	14.62	1.39%
Sn 189.927†	4.7	2.6398 µg/L	1.31680	2.6398 ppb	1.31680	49.88%
Sr 421.552†	75.2	0.4497 µg/L	0.06330	0.4497 ppb	0.06330	14.07%
Ti 334.940†	284.9	0.6880 µg/L	0.09672	0.6880 ppb	0.09672	14.06%
Tl 190.801†	1.6	2.7404 µg/L	2.63939	2.7404 ppb	2.63939	96.31%
U 409.014†	58.0	5.3856 µg/L	5.74486	5.3856 ppb	5.74486	106.67%
V 292.402†	-24.2	-0.2792 µg/L	0.13398	-0.2792 ppb	0.13398	47.98%
Zn 213.857†	52.6	1.4703 µg/L	0.01836	1.4703 ppb	0.01836	1.25%

Sequence No.: 25

Sample ID: 1202021502|944077|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 314

Date Collected: 1/29/2010 15:30:43

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021502|944077|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	Sc RADIAL	76266.3	76266.3	97.2	%		15:31:15
1	Al 396.153Radial†	7858.2	8115.8	5245.4	µg/L	5245.4 ppb	15:31:15
1	Ca 317.933Radial†	7166.0	7126.9	5135.2	µg/L	5135.2 ppb	15:31:15
1	Fe 238.204 Radial†	405.4	400.8	5318.8	µg/L	5318.8 ppb	15:31:36
1	K 766.490 Radial†	8770.9	8626.8	5442.7	µg/L	5442.7 ppb	15:31:15
1	Mg 279.077 IEC†	518.0	524.8	5389.6	µg/L	5389.6 ppb	15:31:36
1	Na 589.592 Radial†	19365.8	19374.3	5158.1	µg/L	5158.1 ppb	15:31:15
1	Sr 421.552†	86458.1	88334.1	528.41	µg/L	528.41 ppb	15:31:15
1	Sc 361.383	1922194.3	1922194.3	97.255	%		15:32:39
1	Y 371.029	1208569.9	1208569.9	96.754	%		15:32:39
1	Ag 328.068†	57066.2	58769.7	534.40	µg/L	534.40 ppb	15:32:45
1	As 188.979†	242.5	252.1	548.43	µg/L	548.43 ppb	15:33:05
1	B 249.677†	11308.6	11257.8	531.34	µg/L	531.34 ppb	15:32:45
1	Ba 233.527†	18873.8	19430.5	543.73	µg/L	543.73 ppb	15:32:45
1	Be 313.107†	775359.0	793412.4	533.63	µg/L	533.63 ppb	15:32:39
1	Cd 226.502†	17923.1	18554.3	525.65	µg/L	525.65 ppb	15:32:45
1	Co 228.616†	9682.2	10004.8	531.58	µg/L	531.58 ppb	15:32:45
1	Cr 267.716†	23439.5	24203.3	542.66	µg/L	542.66 ppb	15:32:45
1	Cu 324.752†	76525.1	74785.4	549.09	µg/L	549.09 ppb	15:32:45
1	Mn 257.610†	146053.8	150324.5	533.32	µg/L	533.32 ppb	15:32:45
1	Mo 202.031†	4294.3	4402.9	533.60	µg/L	533.60 ppb	15:33:05
1	Ni 231.604†	9056.1	8980.3	543.18	µg/L	543.18 ppb	15:32:45
1	P 214.914†	494.5	288.7	613.12	µg/L	613.12 ppb	15:33:05
1	Pb 220.353†	1977.7	1972.3	553.41	µg/L	553.41 ppb	15:33:05
1	S 181.975 Axial†	983.3	987.9	5492.5	µg/L	5492.5 ppb	15:33:05
1	Sb 206.836†	536.2	527.3	559.83	µg/L	559.83 ppb	15:33:05
1	Se 196.026†	334.5	336.0	525.05	µg/L	525.05 ppb	15:33:05
1	SiO2†	66924.3	66424.1	13562	µg/L	13562 ppb	15:32:45
1	Si 251.611†	76053.7	77918.1	6311.7	µg/L	6311.7 ppb	15:32:45
1	Sn 189.927†	1023.8	1029.2	582.78	µg/L	582.78 ppb	15:33:05
1	Ti 334.940†	217382.8	222815.3	538.27	µg/L	538.27 ppb	15:32:39
1	Tl 190.801†	292.6	325.4	546.62	µg/L	546.62 ppb	15:33:05
1	U 409.014†	5682.8	6029.5	559.37	µg/L	559.37 ppb	15:32:45
1	V 292.402†	43964.6	45320.9	551.55	µg/L	551.55 ppb	15:32:45
1	Zn 213.857†	18957.5	18860.4	526.33	µg/L	526.33 ppb	15:32:45
2	Sc RADIAL	76905.4	76905.4	98.0	%		15:31:41
2	Al 396.153Radial†	7793.0	7982.1	5158.8	µg/L	5158.8 ppb	15:31:41
2	Ca 317.933Radial†	7109.0	7007.4	5049.2	µg/L	5049.2 ppb	15:31:41
2	Fe 238.204 Radial†	408.2	400.2	5310.9	µg/L	5310.9 ppb	15:32:02
2	K 766.490 Radial†	8706.6	8486.2	5354.0	µg/L	5354.0 ppb	15:31:41
2	Mg 279.077 IEC†	512.8	515.1	5290.0	µg/L	5290.0 ppb	15:32:02
2	Na 589.592 Radial†	19245.0	19085.5	5081.2	µg/L	5081.2 ppb	15:31:41
2	Sr 421.552†	85794.1	86917.1	519.93	µg/L	519.93 ppb	15:31:41
2	Sc 361.383	1922846.1	1922846.1	97.288	%		15:33:12
2	Y 371.029	1208940.2	1208940.2	96.784	%		15:33:12
2	Ag 328.068†	57141.6	58827.3	534.93	µg/L	534.93 ppb	15:33:18
2	As 188.979†	246.7	256.3	557.55	µg/L	557.55 ppb	15:33:38
2	B 249.677†	11370.1	11317.2	534.16	µg/L	534.16 ppb	15:33:18
2	Ba 233.527†	18918.9	19470.4	544.85	µg/L	544.85 ppb	15:33:18
2	Be 313.107†	778206.3	796068.8	535.42	µg/L	535.42 ppb	15:33:12
2	Cd 226.502†	17996.4	18623.5	527.61	µg/L	527.61 ppb	15:33:18
2	Co 228.616†	9680.3	9999.5	531.30	µg/L	531.30 ppb	15:33:18
2	Cr 267.716†	23476.8	24233.5	543.34	µg/L	543.34 ppb	15:33:18
2	Cu 324.752†	76772.0	75012.5	550.76	µg/L	550.76 ppb	15:33:18
2	Mn 257.610†	146345.2	150573.1	534.21	µg/L	534.21 ppb	15:33:18
2	Mo 202.031†	4288.8	4395.8	532.73	µg/L	532.73 ppb	15:33:38
2	Ni 231.604†	9086.5	9008.4	544.88	µg/L	544.88 ppb	15:33:18
2	P 214.914†	491.6	285.5	605.55	µg/L	605.55 ppb	15:33:38
2	Pb 220.353†	1974.8	1968.7	552.39	µg/L	552.39 ppb	15:33:38

2	S 181.975 Axial†	982.4	986.7	5485.5 µg/L	5485.5 ppb	15:33:38
2	Sb 206.836†	528.8	519.6	551.64 µg/L	551.64 ppb	15:33:38
2	Se 196.026†	337.6	339.1	529.67 µg/L	529.67 ppb	15:33:38
2	SiO2†	67124.3	66606.3	13599 µg/L	13599 ppb	15:33:18
2	Si 251.611†	76363.0	78209.6	6335.3 µg/L	6335.3 ppb	15:33:18
2	Sn 189.927†	1024.9	1030.0	583.21 µg/L	583.21 ppb	15:33:38
2	Ti 334.940†	217843.6	223213.2	539.24 µg/L	539.24 ppb	15:33:12
2	Tl 190.801†	293.2	325.9	547.51 µg/L	547.51 ppb	15:33:38
2	U 409.014†	5658.8	6002.8	556.89 µg/L	556.89 ppb	15:33:18
2	V 292.402†	44070.3	45414.3	552.66 µg/L	552.66 ppb	15:33:18
2	Zn 213.857†	18939.4	18835.2	525.61 µg/L	525.61 ppb	15:33:18
3	Sc RADIAL	76338.0	76338.0	97.3 %		15:32:07
3	Al 396.153Radial†	7872.6	8123.1	5250.6 µg/L	5250.6 ppb	15:32:07
3	Ca 317.933Radial†	7156.6	7110.3	5123.3 µg/L	5123.3 ppb	15:32:07
3	Fe 238.204 Radial†	401.5	396.5	5260.9 µg/L	5260.9 ppb	15:32:28
3	K 766.490 Radial†	8723.7	8569.9	5406.8 µg/L	5406.8 ppb	15:32:07
3	Mg 279.077 IEC†	510.3	516.4	5302.9 µg/L	5302.9 ppb	15:32:28
3	Na 589.592 Radial†	19406.1	19397.1	5164.2 µg/L	5164.2 ppb	15:32:07
3	Sr 421.552†	86573.2	88368.9	528.62 µg/L	528.62 ppb	15:32:07
3	Sc 361.383	1923265.5	1923265.5	97.309 %		15:33:45
3	Y 371.029	1209398.0	1209398.0	96.821 %		15:33:45
3	Ag 328.068†	56550.5	58207.0	529.24 µg/L	529.24 ppb	15:33:50
3	As 188.979†	236.0	245.2	533.50 µg/L	533.50 ppb	15:34:11
3	B 249.677†	11183.0	11122.3	524.93 µg/L	524.93 ppb	15:33:50
3	Ba 233.527†	18436.2	18970.1	530.85 µg/L	530.85 ppb	15:33:50
3	Be 313.107†	771536.2	789039.8	530.69 µg/L	530.69 ppb	15:33:45
3	Cd 226.502†	17633.1	18246.1	516.90 µg/L	516.90 ppb	15:33:50
3	Co 228.616†	9423.7	9733.6	517.14 µg/L	517.14 ppb	15:33:50
3	Cr 267.716†	22816.3	23549.4	528.00 µg/L	528.00 ppb	15:33:50
3	Cu 324.752†	75149.7	73328.1	538.40 µg/L	538.40 ppb	15:33:50
3	Mn 257.610†	142675.6	146769.2	520.72 µg/L	520.72 ppb	15:33:50
3	Mo 202.031†	4083.0	4183.3	506.99 µg/L	506.99 ppb	15:34:11
3	Ni 231.604†	8813.3	8725.7	527.78 µg/L	527.78 ppb	15:33:50
3	P 214.914†	482.9	276.4	585.71 µg/L	585.71 ppb	15:34:11
3	Pb 220.353†	1898.1	1889.4	530.11 µg/L	530.11 ppb	15:34:11
3	S 181.975 Axial†	955.7	959.0	5331.5 µg/L	5331.5 ppb	15:34:11
3	Sb 206.836†	512.4	502.6	533.41 µg/L	533.41 ppb	15:34:11
3	Se 196.026†	320.2	321.1	502.54 µg/L	502.54 ppb	15:34:11
3	SiO2†	65927.7	65361.6	13345 µg/L	13345 ppb	15:33:50
3	Si 251.611†	74945.2	76735.4	6215.9 µg/L	6215.9 ppb	15:33:50
3	Sn 189.927†	978.6	982.2	556.28 µg/L	556.28 ppb	15:34:11
3	Ti 334.940†	216157.3	221431.4	534.93 µg/L	534.93 ppb	15:33:45
3	Tl 190.801†	278.2	310.4	521.61 µg/L	521.61 ppb	15:34:11
3	U 409.014†	5528.6	5867.7	544.34 µg/L	544.34 ppb	15:33:50
3	V 292.402†	42981.6	44285.6	538.83 µg/L	538.83 ppb	15:33:50
3	Zn 213.857†	18532.5	18412.7	513.84 µg/L	513.84 ppb	15:33:50

Mean Data: 1202021502|944077|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1922768.6	97.284 %	0.0273			0.03%
Sc RADIAL	76503.2	97.5 %	0.45			0.46%
Y 371.029	1208969.4	96.786 %	0.0332			0.03%
Ag 328.068†	58601.3	532.86 µg/L	3.145	532.86 ppb	3.145	0.59%
Al 396.153Radial†	8073.7	5218.3 µg/L	51.59	5218.3 ppb	51.59	0.99%
As 188.979†	251.2	546.50 µg/L	12.140	546.50 ppb	12.140	2.22%
B 249.677†	11232.5	530.15 µg/L	4.730	530.15 ppb	4.730	0.89%
Ba 233.527†	19290.3	539.81 µg/L	7.780	539.81 ppb	7.780	1.44%
Be 313.107†	792840.3	533.24 µg/L	2.387	533.24 ppb	2.387	0.45%
Ca 317.933Radial†	7081.5	5102.6 µg/L	46.61	5102.6 ppb	46.61	0.91%
Cd 226.502†	18474.6	523.39 µg/L	5.699	523.39 ppb	5.699	1.09%
Co 228.616†	9912.7	526.67 µg/L	8.258	526.67 ppb	8.258	1.57%
Cr 267.716†	23995.4	538.00 µg/L	8.665	538.00 ppb	8.665	1.61%
Cu 324.752†	74375.3	546.08 µg/L	6.706	546.08 ppb	6.706	1.23%
Fe 238.204 Radial†	399.2	5296.9 µg/L	31.39	5296.9 ppb	31.39	0.59%
K 766.490 Radial†	8561.0	5401.2 µg/L	44.63	5401.2 ppb	44.63	0.83%
Mg 279.077 IEC†	518.8	5327.5 µg/L	54.14	5327.5 ppb	54.14	1.02%
Mn 257.610†	149222.3	529.41 µg/L	7.546	529.41 ppb	7.546	1.43%
Mo 202.031†	4327.3	524.44 µg/L	15.118	524.44 ppb	15.118	2.88%
Na 589.592 Radial†	19285.6	5134.5 µg/L	46.25	5134.5 ppb	46.25	0.90%

Ni 231.604†	8904.8	538.61 µg/L	9.423	538.61 ppb	9.423	1.75%
P 214.914†	283.5	601.46 µg/L	14.152	601.46 ppb	14.152	2.35%
Pb 220.353†	1943.5	545.30 µg/L	13.165	545.30 ppb	13.165	2.41%
S 181.975 Axial†	977.9	5436.5 µg/L	91.03	5436.5 ppb	91.03	1.67%
Sb 206.836†	516.5	548.29 µg/L	13.527	548.29 ppb	13.527	2.47%
Se 196.026†	332.1	519.09 µg/L	14.517	519.09 ppb	14.517	2.80%
SiO2†	66130.7	13502 µg/L	137.3	13502 ppb	137.3	1.02%
Si 251.611†	77621.1	6287.7 µg/L	63.24	6287.7 ppb	63.24	1.01%
Sn 189.927†	1013.8	574.09 µg/L	15.427	574.09 ppb	15.427	2.69%
Sr 421.552†	87873.4	525.65 µg/L	4.955	525.65 ppb	4.955	0.94%
Ti 334.940†	222486.6	537.48 µg/L	2.260	537.48 ppb	2.260	0.42%
Tl 190.801†	320.6	538.58 µg/L	14.703	538.58 ppb	14.703	2.73%
U 409.014†	5966.7	553.53 µg/L	8.059	553.53 ppb	8.059	1.46%
V 292.402†	45007.0	547.68 µg/L	7.683	547.68 ppb	7.683	1.40%
Zn 213.857†	18702.8	521.93 µg/L	7.015	521.93 ppb	7.015	1.34%

Sequence No.: 26

Sample ID: 1202021503|944077|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 315

Date Collected: 1/29/2010 15:34:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202021503|944077|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	75001.2	75001.2	95.6 %		15:34:53
1	Al 396.153Radial†	-17.0	11.7	7.5112 µg/L	7.5112 ppb	15:34:53
1	Ca 317.933Radial†	287.5	53.6	38.629 µg/L	38.629 ppb	15:35:13
1	Fe 238.204 Radial†	18.1	2.6	34.487 µg/L	34.487 ppb	15:35:13
1	K 766.490 Radial†	396.4	16.1	10.169 µg/L	10.169 ppb	15:34:53
1	Mg 279.077 IEC†	5.6	-2.3	-23.175 µg/L	-23.175 ppb	15:35:13
1	Na 589.592 Radial†	357.6	-179.5	-47.778 µg/L	-47.778 ppb	15:34:53
1	Sr 421.552†	654.4	50.8	0.3036 µg/L	0.3036 ppb	15:34:53
1	Sc 361.383	1924671.9	1924671.9	97.380 %		15:36:15
1	Y 371.029	1214178.2	1214178.2	97.203 %		15:36:15
1	Ag 328.068†	-96.6	-6.6	-0.0552 µg/L	-0.0552 ppb	15:36:21
1	As 188.979†	-1.7	0.9	2.0235 µg/L	2.0235 ppb	15:36:41
1	B 249.677†	233.2	-130.5	-6.1959 µg/L	-6.1959 ppb	15:36:41
1	Ba 233.527†	-15.5	8.0	0.2246 µg/L	0.2246 ppb	15:36:41
1	Be 313.107†	3998.6	272.4	0.1832 µg/L	0.1832 ppb	15:36:21
1	Cd 226.502†	-103.0	19.5	0.5496 µg/L	0.5496 ppb	15:36:41
1	Co 228.616†	-42.7	5.5	0.2921 µg/L	0.2921 ppb	15:36:41
1	Cr 267.716†	-38.9	62.2	1.3941 µg/L	1.3941 ppb	15:36:21
1	Cu 324.752†	3823.7	26.6	0.2000 µg/L	0.2000 ppb	15:36:21
1	Mn 257.610†	61.6	211.1	0.7538 µg/L	0.7538 ppb	15:36:41
1	Mo 202.031†	29.8	18.1	2.1903 µg/L	2.1903 ppb	15:36:41
1	Ni 231.604†	333.4	11.0	0.6633 µg/L	0.6633 ppb	15:36:41
1	P 214.914†	227.6	13.9	32.025 µg/L	32.025 ppb	15:36:41
1	Pb 220.353†	64.8	5.4	1.5317 µg/L	1.5317 ppb	15:36:41
1	S 181.975 Axial†	20.0	-2.6	-14.296 µg/L	-14.296 ppb	15:36:41
1	Sb 206.836†	25.0	1.7	1.8044 µg/L	1.8044 ppb	15:36:41
1	Se 196.026†	8.9	1.1	1.8797 µg/L	1.8797 ppb	15:36:41
1	SiO2†	4519.3	2251.5	459.70 µg/L	459.70 ppb	15:36:21
1	Si 251.611†	2887.5	2682.7	217.31 µg/L	217.31 ppb	15:36:21
1	Sn 189.927†	24.1	1.3	0.7306 µg/L	0.7306 ppb	15:36:41
1	Ti 334.940†	766.2	82.9	0.2028 µg/L	0.2028 ppb	15:36:21
1	Tl 190.801†	-23.9	-0.0	-0.0310 µg/L	-0.0310 ppb	15:36:41
1	U 409.014†	-257.5	-78.2	-7.2787 µg/L	-7.2787 ppb	15:36:21
1	V 292.402†	-83.3	29.8	0.3727 µg/L	0.3727 ppb	15:36:21
1	Zn 213.857†	669.0	54.8	1.5364 µg/L	1.5364 ppb	15:36:41
2	Sc RADIAL	74370.9	74370.9	94.8 %		15:35:18
2	Al 396.153Radial†	-28.8	-0.9	-0.6003 µg/L	-0.6003 ppb	15:35:18
2	Ca 317.933Radial†	295.1	64.3	46.301 µg/L	46.301 ppb	15:35:39
2	Fe 238.204 Radial†	17.6	2.2	29.514 µg/L	29.514 ppb	15:35:39
2	K 766.490 Radial†	430.3	55.3	34.911 µg/L	34.911 ppb	15:35:18
2	Mg 279.077 IEC†	9.1	1.4	14.802 µg/L	14.802 ppb	15:35:39
2	Na 589.592 Radial†	403.8	-127.5	-33.952 µg/L	-33.952 ppb	15:35:18
2	Sr 421.552†	645.7	47.3	0.2831 µg/L	0.2831 ppb	15:35:18
2	Sc 361.383	1924422.1	1924422.1	97.367 %		15:36:47
2	Y 371.029	1213550.2	1213550.2	97.153 %		15:36:47
2	Ag 328.068†	-97.6	-7.7	-0.0683 µg/L	-0.0683 ppb	15:36:53
2	As 188.979†	-3.9	-1.2	-2.7246 µg/L	-2.7246 ppb	15:37:13
2	B 249.677†	204.3	-160.1	-7.5987 µg/L	-7.5987 ppb	15:37:13
2	Ba 233.527†	-20.3	3.1	0.0872 µg/L	0.0872 ppb	15:37:13
2	Be 313.107†	3973.7	247.4	0.1663 µg/L	0.1663 ppb	15:36:53
2	Cd 226.502†	-116.0	6.2	0.1723 µg/L	0.1723 ppb	15:37:13
2	Co 228.616†	-46.9	1.2	0.0633 µg/L	0.0633 ppb	15:37:13
2	Cr 267.716†	-53.5	47.2	1.0570 µg/L	1.0570 ppb	15:36:53
2	Cu 324.752†	3791.4	-6.1	-0.0403 µg/L	-0.0403 ppb	15:36:53
2	Mn 257.610†	15.5	163.7	0.5837 µg/L	0.5837 ppb	15:37:13
2	Mo 202.031†	22.0	10.0	1.2173 µg/L	1.2173 ppb	15:37:13
2	Ni 231.604†	321.5	-1.2	-0.0740 µg/L	-0.0740 ppb	15:37:13
2	P 214.914†	221.0	7.1	16.377 µg/L	16.377 ppb	15:37:13
2	Pb 220.353†	58.8	-0.8	-0.2014 µg/L	-0.2014 ppb	15:37:13

2	S 181.975 Axial†	29.1	6.7	37.379 µg/L	37.379 ppb	15:37:13
2	Sb 206.836†	22.5	-0.9	-0.9968 µg/L	-0.9968 ppb	15:37:13
2	Se 196.026†	4.8	-3.0	-4.4077 µg/L	-4.4077 ppb	15:37:13
2	SiO2†	4518.6	2251.4	459.68 µg/L	459.68 ppb	15:36:53
2	Si 251.611†	2882.5	2678.1	216.94 µg/L	216.94 ppb	15:36:53
2	Sn 189.927†	21.3	-1.6	-0.8621 µg/L	-0.8621 ppb	15:37:13
2	Ti 334.940†	823.3	141.7	0.3421 µg/L	0.3421 ppb	15:36:53
2	Tl 190.801†	-24.3	-0.4	-0.6501 µg/L	-0.6501 ppb	15:37:13
2	U 409.014†	-315.4	-137.7	-12.806 µg/L	-12.806 ppb	15:36:53
2	V 292.402†	-121.0	-9.0	-0.1080 µg/L	-0.1080 ppb	15:36:53
2	Zn 213.857†	657.3	42.8	1.2024 µg/L	1.2024 ppb	15:37:13
3	Sc RADIAL	73884.5	73884.5	94.1 %		15:35:44
3	Al 396.153Radial†	-18.1	10.3	6.6353 µg/L	6.6353 ppb	15:35:44
3	Ca 317.933Radial†	294.8	66.0	47.547 µg/L	47.547 ppb	15:36:05
3	Fe 238.204 Radial†	16.4	1.1	14.887 µg/L	14.887 ppb	15:36:05
3	K 766.490 Radial†	417.6	44.8	28.288 µg/L	28.288 ppb	15:35:44
3	Mg 279.077 IEC†	11.1	3.6	36.939 µg/L	36.939 ppb	15:36:05
3	Na 589.592 Radial†	385.0	-144.7	-38.523 µg/L	-38.523 ppb	15:35:44
3	Sr 421.552†	679.2	87.4	0.5230 µg/L	0.5230 ppb	15:35:44
3	Sc 361.383	1929033.3	1929033.3	97.601 %		15:37:19
3	Y 371.029	1216578.3	1216578.3	97.396 %		15:37:19
3	Ag 328.068†	-161.0	-72.3	-0.6519 µg/L	-0.6519 ppb	15:37:25
3	As 188.979†	-4.7	-2.1	-4.5964 µg/L	-4.5964 ppb	15:37:45
3	B 249.677†	204.9	-160.0	-7.5861 µg/L	-7.5861 ppb	15:37:45
3	Ba 233.527†	-25.6	-2.2	-0.0624 µg/L	-0.0624 ppb	15:37:45
3	Be 313.107†	3985.5	249.7	0.1679 µg/L	0.1679 ppb	15:37:25
3	Cd 226.502†	-103.4	19.4	0.5473 µg/L	0.5473 ppb	15:37:45
3	Co 228.616†	-48.1	0.1	0.0023 µg/L	0.0023 ppb	15:37:45
3	Cr 267.716†	-46.9	54.1	1.2112 µg/L	1.2112 ppb	15:37:25
3	Cu 324.752†	3823.6	17.7	0.1316 µg/L	0.1316 ppb	15:37:25
3	Mn 257.610†	-22.1	125.2	0.4443 µg/L	0.4443 ppb	15:37:45
3	Mo 202.031†	14.7	2.5	0.3041 µg/L	0.3041 ppb	15:37:45
3	Ni 231.604†	324.8	1.4	0.0820 µg/L	0.0820 ppb	15:37:45
3	P 214.914†	220.0	5.6	12.818 µg/L	12.818 ppb	15:37:45
3	Pb 220.353†	63.9	4.3	1.1957 µg/L	1.1957 ppb	15:37:45
3	S 181.975 Axial†	26.0	3.5	19.368 µg/L	19.368 ppb	15:37:45
3	Sb 206.836†	21.3	-2.2	-2.3627 µg/L	-2.3627 ppb	15:37:45
3	Se 196.026†	5.8	-2.0	-2.9583 µg/L	-2.9583 ppb	15:37:45
3	SiO2†	4418.0	2137.2	436.37 µg/L	436.37 ppb	15:37:25
3	Si 251.611†	2796.1	2582.4	209.18 µg/L	209.18 ppb	15:37:25
3	Sn 189.927†	24.9	2.1	1.1790 µg/L	1.1790 ppb	15:37:45
3	Ti 334.940†	856.4	173.6	0.4176 µg/L	0.4176 ppb	15:37:25
3	Tl 190.801†	-23.5	0.5	0.7761 µg/L	0.7761 ppb	15:37:45
3	U 409.014†	-173.9	8.0	0.7429 µg/L	0.7429 ppb	15:37:25
3	V 292.402†	-113.3	-0.8	-0.0026 µg/L	-0.0026 ppb	15:37:25
3	Zn 213.857†	663.0	47.1	1.3202 µg/L	1.3202 ppb	15:37:45

Mean Data: 1202021503|944077|5

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1926042.4	97.449 %	0.1312			0.13%
Sc RADIAL	74418.9	94.8 %	0.71			0.75%
Y 371.029	1214768.9	97.251 %	0.1279			0.13%
Ag 328.068†	-28.9	-0.2584 µg/L	0.34078	-0.2584 ppb	0.34078	131.86%
Al 396.153Radial†	7.0	4.5154 µg/L	4.45190	4.5154 ppb	4.45190	98.59%
As 188.979†	-0.8	-1.7658 µg/L	3.41253	-1.7658 ppb	3.41253	193.25%
B 249.677†	-150.2	-7.1269 µg/L	0.80627	-7.1269 ppb	0.80627	11.31%
Ba 233.527†	3.0	0.0831 µg/L	0.14355	0.0831 ppb	0.14355	172.65%
Be 313.107†	256.5	0.1725 µg/L	0.00936	0.1725 ppb	0.00936	5.42%
Ca 317.933Radial†	61.3	44.159 µg/L	4.8294	44.159 ppb	4.8294	10.94%
Cd 226.502†	15.0	0.4231 µg/L	0.21716	0.4231 ppb	0.21716	51.33%
Co 228.616†	2.2	0.1192 µg/L	0.15277	0.1192 ppb	0.15277	128.14%
Cr 267.716†	54.5	1.2208 µg/L	0.16874	1.2208 ppb	0.16874	13.82%
Cu 324.752†	12.7	0.0971 µg/L	0.12382	0.0971 ppb	0.12382	127.52%
Fe 238.204 Radial†	2.0	26.296 µg/L	10.1886	26.296 ppb	10.1886	38.75%
K 766.490 Radial†	38.8	24.456 µg/L	12.8085	24.456 ppb	12.8085	52.37%
Mg 279.077 IEC†	0.9	9.5218 µg/L	30.40261	9.5218 ppb	30.40261	319.30%
Mn 257.610†	166.7	0.5939 µg/L	0.15502	0.5939 ppb	0.15502	26.10%
Mo 202.031†	10.2	1.2372 µg/L	0.94323	1.2372 ppb	0.94323	76.24%
Na 589.592 Radial†	-150.6	-40.085 µg/L	7.0440	-40.085 ppb	7.0440	17.57%

Ni 231.604†	3.7	0.2238 µg/L	0.38859	0.2238 ppb	0.38859	173.65%
P 214.914†	8.9	20.407 µg/L	10.2181	20.407 ppb	10.2181	50.07%
Pb 220.353†	3.0	0.8420 µg/L	0.91909	0.8420 ppb	0.91909	109.16%
S 181.975 Axial†	2.5	14.150 µg/L	26.2296	14.150 ppb	26.2296	185.37%
Sb 206.836†	-0.5	-0.5184 µg/L	2.12439	-0.5184 ppb	2.12439	409.82%
Se 196.026†	-1.3	-1.8288 µg/L	3.29239	-1.8288 ppb	3.29239	180.03%
SiO2†	2213.4	451.92 µg/L	13.465	451.92 ppb	13.465	2.98%
Si 251.611†	2647.7	214.48 µg/L	4.588	214.48 ppb	4.588	2.14%
Sn 189.927†	0.6	0.3492 µg/L	1.07265	0.3492 ppb	1.07265	307.20%
Sr 421.552†	61.8	0.3699 µg/L	0.13299	0.3699 ppb	0.13299	35.96%
Ti 334.940†	132.7	0.3208 µg/L	0.10893	0.3208 ppb	0.10893	33.95%
Tl 190.801†	0.0	0.0317 µg/L	0.71517	0.0317 ppb	0.71517	>999.9%
U 409.014†	-69.3	-6.4471 µg/L	6.81244	-6.4471 ppb	6.81244	105.67%
V 292.402†	6.7	0.0874 µg/L	0.25265	0.0874 ppb	0.25265	289.24%
Zn 213.857†	48.2	1.3530 µg/L	0.16939	1.3530 ppb	0.16939	12.52%

Sequence No.: 27

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 15:37:54

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	75722.6	75722.6	96.5 %		15:38:31
1	Al 396.153Radial†	7691.7	8001.4	5171.1 µg/L	5171.1 ppb	15:38:31
1	Ca 317.933Radial†	7056.8	7066.6	5091.8 µg/L	5091.8 ppb	15:38:31
1	Fe 238.204 Radial†	393.4	391.3	5193.7 µg/L	5193.7 ppb	15:38:52
1	K 766.490 Radial†	8517.2	8428.7	5317.7 µg/L	5317.7 ppb	15:38:31
1	Mg 279.077 IEC†	503.0	513.2	5270.1 µg/L	5270.1 ppb	15:38:52
1	Na 589.592 Radial†	37340.3	38146.5	10156 µg/L	10156 ppb	15:38:31
1	Sr 421.552†	85157.4	87624.9	524.16 µg/L	524.16 ppb	15:38:31
1	Sc 361.383	1896208.6	1896208.6	95.940 %		15:39:55
1	Y 371.029	1190761.9	1190761.9	95.329 %		15:39:55
1	Ag 328.068†	57587.5	60117.2	546.58 µg/L	546.58 ppb	15:40:00
1	As 188.979†	238.0	250.7	545.52 µg/L	545.52 ppb	15:40:21
1	B 249.677†	10907.6	10999.3	519.17 µg/L	519.17 ppb	15:40:00
1	Ba 233.527†	18629.7	19442.0	544.06 µg/L	544.06 ppb	15:40:00
1	Be 313.107†	768416.8	797101.8	536.11 µg/L	536.11 ppb	15:39:55
1	Cd 226.502†	18155.9	19049.5	539.70 µg/L	539.70 ppb	15:40:00
1	Co 228.616†	9763.0	10225.4	543.32 µg/L	543.32 ppb	15:40:00
1	Cr 267.716†	23403.8	24496.4	549.23 µg/L	549.23 ppb	15:40:00
1	Cu 324.752†	75792.5	75100.0	551.38 µg/L	551.38 ppb	15:40:00
1	Mn 257.610†	146818.3	153179.4	543.43 µg/L	543.43 ppb	15:39:55
1	Mo 202.031†	4314.4	4484.4	543.46 µg/L	543.46 ppb	15:40:21
1	Ni 231.604†	9006.4	9056.1	547.75 µg/L	547.75 ppb	15:40:00
1	P 214.914†	1369.1	1207.3	2729.5 µg/L	2729.5 ppb	15:40:21
1	Pb 220.353†	1963.6	1985.5	557.15 µg/L	557.15 ppb	15:40:21
1	S 181.975 Axial†	211.9	197.7	1099.3 µg/L	1099.3 ppb	15:40:21
1	Sb 206.836†	518.8	516.7	548.72 µg/L	548.72 ppb	15:40:21
1	Se 196.026†	355.4	362.5	564.46 µg/L	564.46 ppb	15:40:21
1	SiO2†	29709.7	28577.6	5834.9 µg/L	5834.9 ppb	15:40:00
1	Si 251.611†	32512.6	33606.1	2722.2 µg/L	2722.2 ppb	15:40:00
1	Sn 189.927†	975.1	992.9	562.26 µg/L	562.26 ppb	15:40:21
1	Ti 334.940†	215754.6	224181.3	541.58 µg/L	541.58 ppb	15:39:55
1	Tl 190.801†	292.6	329.5	553.40 µg/L	553.40 ppb	15:40:21
1	U 409.014†	5397.6	5812.2	539.20 µg/L	539.20 ppb	15:40:00
1	V 292.402†	43652.2	45614.9	555.15 µg/L	555.15 ppb	15:40:00
1	Zn 213.857†	19312.1	19497.2	544.21 µg/L	544.21 ppb	15:40:00
2	Sc RADIAL	75245.5	75245.5	95.9 %		15:38:57
2	Al 396.153Radial†	7681.2	8040.9	5196.7 µg/L	5196.7 ppb	15:38:57
2	Ca 317.933Radial†	7010.6	7064.8	5090.5 µg/L	5090.5 ppb	15:38:57
2	Fe 238.204 Radial†	398.2	399.0	5294.3 µg/L	5294.3 ppb	15:39:18
2	K 766.490 Radial†	8540.1	8508.6	5368.1 µg/L	5368.1 ppb	15:38:57
2	Mg 279.077 IEC†	508.2	521.9	5359.6 µg/L	5359.6 ppb	15:39:18
2	Na 589.592 Radial†	37253.1	38301.0	10197 µg/L	10197 ppb	15:38:57
2	Sr 421.552†	84805.5	87817.4	525.32 µg/L	525.32 ppb	15:38:57
2	Sc 361.383	1886038.8	1886038.8	95.425 %		15:40:27
2	Y 371.029	1185607.9	1185607.9	94.916 %		15:40:27
2	Ag 328.068†	57209.1	60044.2	545.92 µg/L	545.92 ppb	15:40:33
2	As 188.979†	241.3	255.6	556.14 µg/L	556.14 ppb	15:40:53
2	B 249.677†	10849.7	10999.9	519.15 µg/L	519.15 ppb	15:40:33
2	Ba 233.527†	18460.7	19369.7	542.04 µg/L	542.04 ppb	15:40:33
2	Be 313.107†	766305.9	799208.5	537.53 µg/L	537.53 ppb	15:40:27
2	Cd 226.502†	17932.6	18917.6	535.94 µg/L	535.94 ppb	15:40:33
2	Co 228.616†	9690.8	10204.7	542.22 µg/L	542.22 ppb	15:40:33
2	Cr 267.716†	23208.5	24423.2	547.59 µg/L	547.59 ppb	15:40:33
2	Cu 324.752†	75221.2	74927.3	550.13 µg/L	550.13 ppb	15:40:33
2	Mn 257.610†	146469.0	153638.5	545.07 µg/L	545.07 ppb	15:40:27
2	Mo 202.031†	4289.6	4482.6	543.25 µg/L	543.25 ppb	15:40:53
2	Ni 231.604†	8922.1	9018.5	545.48 µg/L	545.48 ppb	15:40:33
2	P 214.914†	1359.4	1204.7	2723.7 µg/L	2723.7 ppb	15:40:53
2	Pb 220.353†	1927.6	1958.8	549.65 µg/L	549.65 ppb	15:40:53

2	S 181.975 Axial†	208.0	194.8	1083.0 µg/L	1083.0 ppb	15:40:53
2	Sb 206.836†	517.9	518.7	550.84 µg/L	550.84 ppb	15:40:53
2	Se 196.026†	354.7	363.8	566.78 µg/L	566.78 ppb	15:40:53
2	SiO2†	29466.7	28489.9	5817.0 µg/L	5817.0 ppb	15:40:33
2	Si 251.611†	32258.5	33522.5	2715.5 µg/L	2715.5 ppb	15:40:33
2	Sn 189.927†	969.9	993.0	562.35 µg/L	562.35 ppb	15:40:53
2	Ti 334.940†	214914.8	224513.8	542.38 µg/L	542.38 ppb	15:40:27
2	Tl 190.801†	287.2	325.5	546.86 µg/L	546.86 ppb	15:40:53
2	U 409.014†	5558.9	6011.7	557.72 µg/L	557.72 ppb	15:40:33
2	V 292.402†	43298.4	45489.4	553.66 µg/L	553.66 ppb	15:40:33
2	Zn 213.857†	19132.1	19417.1	541.97 µg/L	541.97 ppb	15:40:33
3	Sc RADIAL	75627.3	75627.3	96.4 %		15:39:23
3	Al 396.153Radial†	7680.5	7999.8	5171.6 µg/L	5171.6 ppb	15:39:23
3	Ca 317.933Radial†	7009.7	7027.0	5063.3 µg/L	5063.3 ppb	15:39:23
3	Fe 238.204 Radial†	394.0	392.5	5208.2 µg/L	5208.2 ppb	15:39:44
3	K 766.490 Radial†	8424.0	8343.1	5263.7 µg/L	5263.7 ppb	15:39:23
3	Mg 279.077 IEC†	504.1	515.0	5287.4 µg/L	5287.4 ppb	15:39:44
3	Na 589.592 Radial†	37185.0	38034.2	10126 µg/L	10126 ppb	15:39:23
3	Sr 421.552†	84966.4	87537.9	523.64 µg/L	523.64 ppb	15:39:23
3	Sc 361.383	1885203.2	1885203.2	95.383 %		15:40:59
3	Y 371.029	1184573.8	1184573.8	94.833 %		15:40:59
3	Ag 328.068†	55411.3	58186.0	528.90 µg/L	528.90 ppb	15:41:05
3	As 188.979†	213.4	226.4	492.63 µg/L	492.63 ppb	15:41:25
3	B 249.677†	10422.9	10557.5	498.16 µg/L	498.16 ppb	15:41:05
3	Ba 233.527†	17485.0	18355.3	513.64 µg/L	513.64 ppb	15:41:05
3	Be 313.107†	733092.3	764743.3	514.35 µg/L	514.35 ppb	15:40:59
3	Cd 226.502†	16996.4	17944.4	508.35 µg/L	508.35 ppb	15:41:05
3	Co 228.616†	9062.1	9550.0	507.38 µg/L	507.38 ppb	15:41:05
3	Cr 267.716†	21273.8	22405.7	502.36 µg/L	502.36 ppb	15:41:05
3	Cu 324.752†	70626.8	70145.5	515.05 µg/L	515.05 ppb	15:41:05
3	Mn 257.610†	140279.1	147217.1	522.30 µg/L	522.30 ppb	15:40:59
3	Mo 202.031†	3689.9	3855.9	467.32 µg/L	467.32 ppb	15:41:25
3	Ni 231.604†	8351.4	8424.2	509.54 µg/L	509.54 ppb	15:41:05
3	P 214.914†	1229.1	1068.7	2412.9 µg/L	2412.9 ppb	15:41:25
3	Pb 220.353†	1722.7	1744.9	489.53 µg/L	489.53 ppb	15:41:25
3	S 181.975 Axial†	197.1	183.6	1020.5 µg/L	1020.5 ppb	15:41:25
3	Sb 206.836†	453.9	451.9	479.47 µg/L	479.47 ppb	15:41:25
3	Se 196.026†	323.0	330.7	516.64 µg/L	516.64 ppb	15:41:25
3	SiO2†	28115.5	27087.0	5530.5 µg/L	5530.5 ppb	15:41:05
3	Si 251.611†	30751.7	31957.8	2588.7 µg/L	2588.7 ppb	15:41:05
3	Sn 189.927†	823.5	839.9	476.03 µg/L	476.03 ppb	15:41:25
3	Ti 334.940†	204830.2	214041.0	517.07 µg/L	517.07 ppb	15:40:59
3	Tl 190.801†	264.5	301.9	507.20 µg/L	507.20 ppb	15:41:25
3	U 409.014†	4983.7	5411.1	501.91 µg/L	501.91 ppb	15:41:05
3	V 292.402†	40370.1	42439.5	516.21 µg/L	516.21 ppb	15:41:05
3	Zn 213.857†	17966.2	18203.6	508.08 µg/L	508.08 ppb	15:41:05

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1889150.2	95.583 %	0.3100			0.32%
Sc RADIAL	75531.8	96.2 %	0.32			0.33%
Y 371.029	1186981.2	95.026 %	0.2654			0.28%
Ag 328.068†	59449.2	540.47 µg/L	10.023	540.47 ppb	10.023	1.85%
QC value within limits for Ag 328.068 Recovery = 108.09%						
Al 396.153Radial†	8014.0	5179.8 µg/L	14.63	5179.8 ppb	14.63	0.28%
QC value within limits for Al 396.153Radial Recovery = 103.60%						
As 188.979†	244.3	531.43 µg/L	34.017	531.43 ppb	34.017	6.40%
QC value within limits for As 188.979 Recovery = 106.29%						
B 249.677†	10852.2	512.16 µg/L	12.123	512.16 ppb	12.123	2.37%
QC value within limits for B 249.677 Recovery = 102.43%						
Ba 233.527†	19055.7	533.24 µg/L	17.011	533.24 ppb	17.011	3.19%
QC value within limits for Ba 233.527 Recovery = 106.65%						
Be 313.107†	787017.9	529.33 µg/L	12.993	529.33 ppb	12.993	2.45%
QC value within limits for Be 313.107 Recovery = 105.87%						
Ca 317.933Radial†	7052.8	5081.9 µg/L	16.12	5081.9 ppb	16.12	0.32%
QC value within limits for Ca 317.933Radial Recovery = 101.64%						
Cd 226.502†	18637.2	528.00 µg/L	17.120	528.00 ppb	17.120	3.24%
QC value within limits for Cd 226.502 Recovery = 105.60%						
Co 228.616†	9993.4	530.97 µg/L	20.442	530.97 ppb	20.442	3.85%

Cr	267.716†	23775.1	533.06 µg/L	26.599	533.06 ppb	26.599	4.99%
	QC value within limits for Cr 267.716 Recovery = 106.61%						
Cu	324.752†	73390.9	538.85 µg/L	20.621	538.85 ppb	20.621	3.83%
	QC value within limits for Cu 324.752 Recovery = 107.77%						
Fe	238.204 Radial†	394.3	5232.0 µg/L	54.43	5232.0 ppb	54.43	1.04%
	QC value within limits for Fe 238.204 Radial Recovery = 104.64%						
K	766.490 Radial†	8426.8	5316.5 µg/L	52.20	5316.5 ppb	52.20	0.98%
	QC value within limits for K 766.490 Radial Recovery = 106.33%						
Mg	279.077 IEC†	516.7	5305.7 µg/L	47.45	5305.7 ppb	47.45	0.89%
	QC value within limits for Mg 279.077 IEC Recovery = 106.11%						
Mn	257.610†	151345.0	536.93 µg/L	12.700	536.93 ppb	12.700	2.37%
	QC value within limits for Mn 257.610 Recovery = 107.39%						
Mo	202.031†	4274.3	518.01 µg/L	43.899	518.01 ppb	43.899	8.47%
	QC value within limits for Mo 202.031 Recovery = 103.60%						
Na	589.592 Radial†	38160.6	10160 µg/L	35.7	10160 ppb	35.7	0.35%
	QC value within limits for Na 589.592 Radial Recovery = 101.60%						
Ni	231.604†	8832.9	534.25 µg/L	21.437	534.25 ppb	21.437	4.01%
	QC value within limits for Ni 231.604 Recovery = 106.85%						
P	214.914†	1160.2	2622.0 µg/L	181.17	2622.0 ppb	181.17	6.91%
	QC value within limits for P 214.914 Recovery = 104.88%						
Pb	220.353†	1896.4	532.11 µg/L	37.066	532.11 ppb	37.066	6.97%
	QC value within limits for Pb 220.353 Recovery = 106.42%						
S	181.975 Axial†	192.0	1067.6 µg/L	41.61	1067.6 ppb	41.61	3.90%
	QC value within limits for S 181.975 Axial Recovery = 106.76%						
Sb	206.836†	495.8	526.34 µg/L	40.606	526.34 ppb	40.606	7.71%
	QC value within limits for Sb 206.836 Recovery = 105.27%						
Se	196.026†	352.3	549.29 µg/L	28.302	549.29 ppb	28.302	5.15%
	QC value within limits for Se 196.026 Recovery = 109.86%						
SiO2†		28051.5	5727.5 µg/L	170.78	5727.5 ppb	170.78	2.98%
	QC value within limits for SiO2 Recovery = 107.11%						
Si	251.611†	33028.8	2675.5 µg/L	75.21	2675.5 ppb	75.21	2.81%
	QC value within limits for Si 251.611 Recovery = 107.02%						
Sn	189.927†	941.9	533.55 µg/L	49.813	533.55 ppb	49.813	9.34%
	QC value within limits for Sn 189.927 Recovery = 106.71%						
Sr	421.552†	87660.1	524.38 µg/L	0.856	524.38 ppb	0.856	0.16%
	QC value within limits for Sr 421.552 Recovery = 104.88%						
Ti	334.940†	220912.1	533.68 µg/L	14.389	533.68 ppb	14.389	2.70%
	QC value within limits for Ti 334.940 Recovery = 106.74%						
Tl	190.801†	318.9	535.82 µg/L	24.997	535.82 ppb	24.997	4.67%
	QC value within limits for Tl 190.801 Recovery = 107.16%						
U	409.014†	5745.0	532.94 µg/L	28.422	532.94 ppb	28.422	5.33%
	QC value within limits for U 409.014 Recovery = 106.59%						
V	292.402†	44514.6	541.67 µg/L	22.065	541.67 ppb	22.065	4.07%
	QC value within limits for V 292.402 Recovery = 108.33%						
Zn	213.857†	19039.3	531.42 µg/L	20.245	531.42 ppb	20.245	3.81%
	QC value within limits for Zn 213.857 Recovery = 106.28%						

All analyte(s) passed QC.

Sequence No.: 28

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 15:41:35

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	73028.4	73028.4	93.1 %		15:42:08
1	Al 396.153Radial†	-31.7	-4.6	-3.0099 µg/L	-3.0099 ppb	15:42:08
1	Ca 317.933Radial†	243.4	14.4	10.365 µg/L	10.365 ppb	15:42:28
1	Fe 238.204 Radial†	16.5	1.4	18.173 µg/L	18.173 ppb	15:42:28
1	K 766.490 Radial†	292.3	-84.5	-53.329 µg/L	-53.329 ppb	15:42:08
1	Mg 279.077 IEC†	9.1	1.6	16.506 µg/L	16.506 ppb	15:42:28
1	Na 589.592 Radial†	353.2	-174.1	-46.347 µg/L	-46.347 ppb	15:42:08
1	Sr 421.552†	675.1	91.4	0.5470 µg/L	0.5470 ppb	15:42:08
1	Sc 361.383	1893698.9	1893698.9	95.813 %		15:43:30
1	Y 371.029	1196169.8	1196169.8	95.762 %		15:43:30
1	Ag 328.068†	-83.9	5.0	0.0482 µg/L	0.0482 ppb	15:43:36
1	As 188.979†	-0.7	2.0	4.3950 µg/L	4.3950 ppb	15:43:56
1	B 249.677†	175.6	-186.7	-8.8502 µg/L	-8.8502 ppb	15:43:56
1	Ba 233.527†	-19.1	4.1	0.1141 µg/L	0.1141 ppb	15:43:56
1	Be 313.107†	3969.3	309.0	0.2078 µg/L	0.2078 ppb	15:43:36
1	Cd 226.502†	-118.5	1.6	0.0453 µg/L	0.0453 ppb	15:43:56
1	Co 228.616†	-43.5	4.0	0.2112 µg/L	0.2112 ppb	15:43:56
1	Cr 267.716†	-62.5	36.9	0.8277 µg/L	0.8277 ppb	15:43:36
1	Cu 324.752†	3788.8	54.4	0.4017 µg/L	0.4017 ppb	15:43:36
1	Mn 257.610†	-39.5	106.7	0.3798 µg/L	0.3798 ppb	15:43:56
1	Mo 202.031†	23.2	11.6	1.4050 µg/L	1.4050 ppb	15:43:56
1	Ni 231.604†	336.1	19.4	1.1731 µg/L	1.1731 ppb	15:43:56
1	P 214.914†	225.8	15.8	36.448 µg/L	36.448 ppb	15:43:56
1	Pb 220.353†	61.6	3.1	0.8817 µg/L	0.8817 ppb	15:43:56
1	S 181.975 Axial†	25.8	3.8	21.132 µg/L	21.132 ppb	15:43:56
1	Sb 206.836†	27.5	4.7	5.0119 µg/L	5.0119 ppb	15:43:56
1	Se 196.026†	7.9	0.3	0.5870 µg/L	0.5870 ppb	15:43:56
1	SiO2†	2291.5	2.2	0.4588 µg/L	0.4588 ppb	15:43:36
1	Si 251.611†	306.3	37.2	3.0151 µg/L	3.0151 ppb	15:43:56
1	Sn 189.927†	22.0	-0.5	-0.2891 µg/L	-0.2891 ppb	15:43:56
1	Ti 334.940†	806.4	137.8	0.3320 µg/L	0.3320 ppb	15:43:36
1	Tl 190.801†	-27.5	-4.2	-7.0024 µg/L	-7.0024 ppb	15:43:56
1	U 409.014†	-205.2	-28.0	-2.6020 µg/L	-2.6020 ppb	15:43:36
1	V 292.402†	-92.5	18.8	0.2371 µg/L	0.2371 ppb	15:43:36
1	Zn 213.857†	691.9	89.9	2.5188 µg/L	2.5188 ppb	15:43:56
2	Sc RADIAL	73243.0	73243.0	93.3 %		15:42:34
2	Al 396.153Radial†	-12.8	15.8	10.215 µg/L	10.215 ppb	15:42:34
2	Ca 317.933Radial†	239.5	9.5	6.8177 µg/L	6.8177 ppb	15:42:54
2	Fe 238.204 Radial†	15.7	0.4	5.9320 µg/L	5.9320 ppb	15:42:54
2	K 766.490 Radial†	415.2	46.2	29.163 µg/L	29.163 ppb	15:42:34
2	Mg 279.077 IEC†	11.0	3.6	36.962 µg/L	36.962 ppb	15:42:54
2	Na 589.592 Radial†	346.2	-182.7	-48.653 µg/L	-48.653 ppb	15:42:34
2	Sr 421.552†	724.0	141.8	0.8481 µg/L	0.8481 ppb	15:42:34
2	Sc 361.383	1883824.8	1883824.8	95.313 %		15:44:02
2	Y 371.029	1189645.0	1189645.0	95.239 %		15:44:02
2	Ag 328.068†	-105.2	-17.8	-0.1603 µg/L	-0.1603 ppb	15:44:08
2	As 188.979†	-2.7	-0.1	-0.1608 µg/L	-0.1608 ppb	15:44:28
2	B 249.677†	173.5	-188.0	-8.9041 µg/L	-8.9041 ppb	15:44:28
2	Ba 233.527†	-13.5	9.8	0.2745 µg/L	0.2745 ppb	15:44:28
2	Be 313.107†	3964.8	325.9	0.2192 µg/L	0.2192 ppb	15:44:08
2	Cd 226.502†	-109.6	10.3	0.2927 µg/L	0.2927 ppb	15:44:28
2	Co 228.616†	-42.6	4.7	0.2482 µg/L	0.2482 ppb	15:44:28
2	Cr 267.716†	-47.0	52.9	1.1848 µg/L	1.1848 ppb	15:44:08
2	Cu 324.752†	3830.4	118.8	0.8720 µg/L	0.8720 ppb	15:44:08
2	Mn 257.610†	-39.3	106.6	0.3773 µg/L	0.3773 ppb	15:44:28
2	Mo 202.031†	21.7	10.2	1.2403 µg/L	1.2403 ppb	15:44:28
2	Ni 231.604†	331.4	16.3	0.9856 µg/L	0.9856 ppb	15:44:28
2	P 214.914†	224.1	15.2	35.064 µg/L	35.064 ppb	15:44:28
2	Pb 220.353†	68.0	10.2	2.8760 µg/L	2.8760 ppb	15:44:28

2	S 181.975 Axial†	20.9	-1.2	-6.8523 µg/L	-6.8523 ppb	15:44:28
2	Sb 206.836†	26.0	3.2	3.4310 µg/L	3.4310 ppb	15:44:28
2	Se 196.026†	10.6	3.2	4.7866 µg/L	4.7866 ppb	15:44:28
2	SiO2†	2304.5	28.4	5.8026 µg/L	5.8026 ppb	15:44:08
2	Si 251.611†	310.7	43.6	3.5301 µg/L	3.5301 ppb	15:44:28
2	Sn 189.927†	27.2	5.1	2.8738 µg/L	2.8738 ppb	15:44:28
2	Ti 334.940†	786.0	120.8	0.2892 µg/L	0.2892 ppb	15:44:08
2	Tl 190.801†	-23.7	-0.3	-0.5856 µg/L	-0.5856 ppb	15:44:28
2	U 409.014†	-241.7	-67.3	-6.2601 µg/L	-6.2601 ppb	15:44:08
2	V 292.402†	-108.3	1.7	0.0268 µg/L	0.0268 ppb	15:44:08
2	Zn 213.857†	692.7	94.5	2.6475 µg/L	2.6475 ppb	15:44:28
3	Sc RADIAL	73000.3	73000.3	93.0 %		15:43:00
3	Al 396.153Radial†	-26.9	0.6	0.3527 µg/L	0.3527 ppb	15:43:00
3	Ca 317.933Radial†	246.0	17.3	12.471 µg/L	12.471 ppb	15:43:20
3	Fe 238.204 Radial†	17.4	2.4	31.803 µg/L	31.803 ppb	15:43:20
3	K 766.490 Radial†	376.0	5.5	3.4922 µg/L	3.4922 ppb	15:43:00
3	Mg 279.077 IEC†	9.5	2.1	21.437 µg/L	21.437 ppb	15:43:20
3	Na 589.592 Radial†	366.0	-160.2	-42.643 µg/L	-42.643 ppb	15:43:00
3	Sr 421.552†	693.5	111.5	0.6668 µg/L	0.6668 ppb	15:43:00
3	Sc 361.383	1889325.1	1889325.1	95.592 %		15:44:34
3	Y 371.029	1193966.3	1193966.3	95.585 %		15:44:34
3	Ag 328.068†	-124.5	-37.6	-0.3377 µg/L	-0.3377 ppb	15:44:40
3	As 188.979†	-3.3	-0.7	-1.5070 µg/L	-1.5070 ppb	15:45:00
3	B 249.677†	142.4	-221.0	-10.484 µg/L	-10.484 ppb	15:45:00
3	Ba 233.527†	-21.8	1.1	0.0319 µg/L	0.0319 ppb	15:45:00
3	Be 313.107†	3962.6	311.5	0.2096 µg/L	0.2096 ppb	15:44:40
3	Cd 226.502†	-114.6	5.4	0.1507 µg/L	0.1507 ppb	15:45:00
3	Co 228.616†	-50.7	-3.8	-0.1986 µg/L	-0.1986 ppb	15:45:00
3	Cr 267.716†	-70.4	28.5	0.6375 µg/L	0.6375 ppb	15:44:40
3	Cu 324.752†	3838.1	115.2	0.8488 µg/L	0.8488 ppb	15:44:40
3	Mn 257.610†	-44.9	100.9	0.3610 µg/L	0.3610 ppb	15:45:00
3	Mo 202.031†	24.1	12.6	1.5317 µg/L	1.5317 ppb	15:45:00
3	Ni 231.604†	321.6	5.0	0.3028 µg/L	0.3028 ppb	15:45:00
3	P 214.914†	223.3	13.8	31.618 µg/L	31.618 ppb	15:45:00
3	Pb 220.353†	56.0	-2.6	-0.7234 µg/L	-0.7234 ppb	15:45:00
3	S 181.975 Axial†	23.9	1.9	10.398 µg/L	10.398 ppb	15:45:00
3	Sb 206.836†	25.4	2.5	2.6837 µg/L	2.6837 ppb	15:45:00
3	Se 196.026†	4.8	-2.9	-4.2115 µg/L	-4.2115 ppb	15:45:00
3	SiO2†	2318.7	36.3	7.4021 µg/L	7.4021 ppb	15:44:40
3	Si 251.611†	296.8	28.1	2.2770 µg/L	2.2770 ppb	15:45:00
3	Sn 189.927†	23.7	1.4	0.7789 µg/L	0.7789 ppb	15:45:00
3	Ti 334.940†	714.0	43.0	0.1025 µg/L	0.1025 ppb	15:44:40
3	Tl 190.801†	-23.2	0.2	0.4016 µg/L	0.4016 ppb	15:45:00
3	U 409.014†	-237.4	-62.2	-5.7843 µg/L	-5.7843 ppb	15:44:40
3	V 292.402†	-112.5	-2.4	-0.0197 µg/L	-0.0197 ppb	15:44:40
3	Zn 213.857†	680.6	79.7	2.2346 µg/L	2.2346 ppb	15:45:00

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1888949.6	95.573 %	0.2503			0.26%
Sc RADIAL	73090.6	93.1 %	0.17			0.18%
Y 371.029	1193260.4	95.529 %	0.2657			0.28%
Ag 328.068†	-16.8	-0.1500 µg/L	0.19316	-0.1500 ppb	0.19316	128.81%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	3.9	2.5193 µg/L	6.87355	2.5193 ppb	6.87355	272.83%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.4	0.9091 µg/L	3.09304	0.9091 ppb	3.09304	340.24%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-198.5	-9.4126 µg/L	0.92783	-9.4126 ppb	0.92783	9.86%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.0	0.1402 µg/L	0.12339	0.1402 ppb	0.12339	88.01%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	315.5	0.2122 µg/L	0.00614	0.2122 ppb	0.00614	2.89%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	13.7	9.8847 µg/L	2.85717	9.8847 ppb	2.85717	28.90%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.8	0.1629 µg/L	0.12415	0.1629 ppb	0.12415	76.22%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	1.6	0.0869 µg/L	0.24796	0.0869 ppb	0.24796	285.23%

Cr	267.716†	39.4	0.8834 µg/L	0.27787	0.8834 ppb	0.27787	31.46%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cu	324.752†	96.1	0.7075 µg/L	0.26507	0.7075 ppb	0.26507	37.47%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	1.4	18.636 µg/L	12.9416	18.636 ppb	12.9416	69.44%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	-10.9	-6.8914 µg/L	42.21499	-6.8914 ppb	42.21499	612.58%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	2.4	24.968 µg/L	10.6753	24.968 ppb	10.6753	42.76%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	104.7	0.3727 µg/L	0.01020	0.3727 ppb	0.01020	2.74%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	11.5	1.3923 µg/L	0.14611	1.3923 ppb	0.14611	10.49%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-172.3	-45.881 µg/L	3.0320	-45.881 ppb	3.0320	6.61%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	13.5	0.8205 µg/L	0.45806	0.8205 ppb	0.45806	55.83%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	14.9	34.377 µg/L	2.4876	34.377 ppb	2.4876	7.24%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	3.6	1.0114 µg/L	1.80322	1.0114 ppb	1.80322	178.28%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	1.5	8.2256 µg/L	14.11781	8.2256 ppb	14.11781	171.63%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	3.5	3.7089 µg/L	1.18874	3.7089 ppb	1.18874	32.05%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	0.2	0.3874 µg/L	4.50233	0.3874 ppb	4.50233	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		22.3	4.5545 µg/L	3.63603	4.5545 ppb	3.63603	79.83%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	36.3	2.9407 µg/L	0.62983	2.9407 ppb	0.62983	21.42%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	2.0	1.1212 µg/L	1.60899	1.1212 ppb	1.60899	143.51%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	114.9	0.6873 µg/L	0.15155	0.6873 ppb	0.15155	22.05%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	100.5	0.2412 µg/L	0.12205	0.2412 ppb	0.12205	50.60%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-1.4	-2.3955 µg/L	4.02016	-2.3955 ppb	4.02016	167.82%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-52.5	-4.8821 µg/L	1.98892	-4.8821 ppb	1.98892	40.74%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	6.0	0.0814 µg/L	0.13684	0.0814 ppb	0.13684	168.08%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	88.0	2.4670 µg/L	0.21128	2.4670 ppb	0.21128	8.56%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 32

Sample ID: 245137001|944077|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 319

Date Collected: 1/29/2010 15:55:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245137001|944077|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74797.8	74797.8	95.3 %		15:56:31
1	Al 396.153Radial†	7.4	37.3	24.149 µg/L	24.149 ppb	15:56:31
1	Ca 317.933Radial†	266.5	32.4	23.360 µg/L	23.360 ppb	15:56:51
1	Fe 238.204 Radial†	15.7	0.1	1.5087 µg/L	1.5087 ppb	15:56:51
1	K 766.490 Radial†	654.7	288.2	181.86 µg/L	181.86 ppb	15:56:31
1	Mg 279.077 IEC†	8.6	0.8	8.3524 µg/L	8.3524 ppb	15:56:51
1	Na 589.592 Radial†	738.2	220.8	58.797 µg/L	58.797 ppb	15:56:31
1	Sr 421.552†	645.6	43.4	0.2595 µg/L	0.2595 ppb	15:56:31
1	Sc 361.383	1916370.9	1916370.9	96.960 %		15:57:53
1	Y 371.029	1207154.8	1207154.8	96.641 %		15:57:53
1	Ag 328.068†	-94.8	-5.2	-0.0457 µg/L	-0.0457 ppb	15:57:59
1	As 188.979†	-4.1	-1.5	-3.3752 µg/L	-3.3752 ppb	15:58:20
1	B 249.677†	452.6	96.8	4.5883 µg/L	4.5883 ppb	15:57:59
1	Ba 233.527†	-23.0	0.2	0.0065 µg/L	0.0065 ppb	15:58:20
1	Be 313.107†	3836.7	123.2	0.0827 µg/L	0.0827 ppb	15:57:59
1	Cd 226.502†	-127.6	-6.3	-0.1772 µg/L	-0.1772 ppb	15:58:20
1	Co 228.616†	-52.9	-5.2	-0.2776 µg/L	-0.2776 ppb	15:58:20
1	Cr 267.716†	-55.6	44.8	1.0047 µg/L	1.0047 ppb	15:58:20
1	Cu 324.752†	3763.1	-18.8	-0.1379 µg/L	-0.1379 ppb	15:57:59
1	Mn 257.610†	-12.5	135.0	0.4782 µg/L	0.4782 ppb	15:58:20
1	Mo 202.031†	18.8	6.8	0.8249 µg/L	0.8249 ppb	15:58:20
1	Ni 231.604†	327.6	6.5	0.3920 µg/L	0.3920 ppb	15:58:20
1	P 214.914†	224.6	11.8	27.360 µg/L	27.360 ppb	15:58:20
1	Pb 220.353†	67.5	8.5	2.3840 µg/L	2.3840 ppb	15:58:20
1	S 181.975 Axial†	31.9	9.7	54.114 µg/L	54.114 ppb	15:58:20
1	Sb 206.836†	26.7	3.6	3.7673 µg/L	3.7673 ppb	15:58:20
1	Se 196.026†	3.2	-4.7	-7.0367 µg/L	-7.0367 ppb	15:58:20
1	SiO2†	16445.4	14571.6	2975.2 µg/L	2975.2 ppb	15:57:59
1	Si 251.611†	16838.0	17083.5	1383.8 µg/L	1383.8 ppb	15:57:59
1	Sn 189.927†	27.0	4.4	2.4751 µg/L	2.4751 ppb	15:58:20
1	Ti 334.940†	850.7	173.5	0.4191 µg/L	0.4191 ppb	15:57:59
1	Tl 190.801†	-24.7	-0.9	-1.4945 µg/L	-1.4945 ppb	15:58:20
1	U 409.014†	-196.7	-16.6	-1.5485 µg/L	-1.5485 ppb	15:57:59
1	V 292.402†	-101.7	10.4	0.1326 µg/L	0.1326 ppb	15:57:59
1	Zn 213.857†	658.8	47.2	1.3259 µg/L	1.3259 ppb	15:58:20
2	Sc RADIAL	74364.0	74364.0	94.8 %		15:56:57
2	Al 396.153Radial†	-1.9	27.5	17.842 µg/L	17.842 ppb	15:56:57
2	Ca 317.933Radial†	269.7	37.5	27.001 µg/L	27.001 ppb	15:57:17
2	Fe 238.204 Radial†	15.8	0.4	4.8677 µg/L	4.8677 ppb	15:57:17
2	K 766.490 Radial†	611.9	247.1	155.88 µg/L	155.88 ppb	15:56:57
2	Mg 279.077 IEC†	7.4	-0.3	-3.4262 µg/L	-3.4262 ppb	15:57:17
2	Na 589.592 Radial†	715.9	201.9	53.749 µg/L	53.749 ppb	15:56:57
2	Sr 421.552†	659.3	61.8	0.3696 µg/L	0.3696 ppb	15:56:57
2	Sc 361.383	1924904.4	1924904.4	97.392 %		15:58:26
2	Y 371.029	1212720.5	1212720.5	97.087 %		15:58:26
2	Ag 328.068†	-137.4	-48.5	-0.4359 µg/L	-0.4359 ppb	15:58:31
2	As 188.979†	-1.6	1.1	2.3497 µg/L	2.3497 ppb	15:58:52
2	B 249.677†	515.8	159.6	7.5608 µg/L	7.5608 ppb	15:58:31
2	Ba 233.527†	-21.8	1.6	0.0452 µg/L	0.0452 ppb	15:58:52
2	Be 313.107†	3748.1	14.7	0.0097 µg/L	0.0097 ppb	15:58:31
2	Cd 226.502†	-119.9	2.2	0.0616 µg/L	0.0616 ppb	15:58:52
2	Co 228.616†	-56.6	-8.8	-0.4685 µg/L	-0.4685 ppb	15:58:52
2	Cr 267.716†	-58.9	41.7	0.9342 µg/L	0.9342 ppb	15:58:52
2	Cu 324.752†	3788.9	-9.6	-0.0700 µg/L	-0.0700 ppb	15:58:31
2	Mn 257.610†	-22.8	124.4	0.4417 µg/L	0.4417 ppb	15:58:52
2	Mo 202.031†	11.3	-1.0	-0.1205 µg/L	-0.1205 ppb	15:58:52
2	Ni 231.604†	316.3	-6.7	-0.4024 µg/L	-0.4024 ppb	15:58:52
2	P 214.914†	234.8	21.3	49.071 µg/L	49.071 ppb	15:58:52
2	Pb 220.353†	59.2	-0.3	-0.0982 µg/L	-0.0982 ppb	15:58:52

2	S 181.975 Axial†	30.4	8.1	44.949 µg/L	44.949 ppb	15:58:52
2	Sb 206.836†	23.5	0.1	0.1265 µg/L	0.1265 ppb	15:58:52
2	Se 196.026†	9.8	2.1	3.2064 µg/L	3.2064 ppb	15:58:52
2	SiO2†	16393.0	14442.7	2948.8 µg/L	2948.8 ppb	15:58:31
2	Si 251.611†	16797.8	16965.2	1374.3 µg/L	1374.3 ppb	15:58:31
2	Sn 189.927†	26.3	3.6	2.0222 µg/L	2.0222 ppb	15:58:52
2	Ti 334.940†	894.1	214.1	0.5184 µg/L	0.5184 ppb	15:58:31
2	Tl 190.801†	-22.0	2.0	3.3090 µg/L	3.3090 ppb	15:58:52
2	U 409.014†	-174.2	7.4	0.6843 µg/L	0.6843 ppb	15:58:31
2	V 292.402†	-90.4	22.5	0.2728 µg/L	0.2728 ppb	15:58:31
2	Zn 213.857†	661.5	46.9	1.3209 µg/L	1.3209 ppb	15:58:52
3	Sc RADIAL	74646.2	74646.2	95.1 %		15:57:23
3	Al 396.153Radial†	-11.7	17.2	11.123 µg/L	11.123 ppb	15:57:23
3	Ca 317.933Radial†	271.9	38.7	27.905 µg/L	27.905 ppb	15:57:43
3	Fe 238.204 Radial†	17.1	1.7	22.058 µg/L	22.058 ppb	15:57:43
3	K 766.490 Radial†	687.2	323.8	204.27 µg/L	204.27 ppb	15:57:23
3	Mg 279.077 IEC†	11.8	4.2	43.086 µg/L	43.086 ppb	15:57:43
3	Na 589.592 Radial†	717.8	200.9	53.499 µg/L	53.499 ppb	15:57:23
3	Sr 421.552†	659.2	59.1	0.3533 µg/L	0.3533 ppb	15:57:23
3	Sc 361.383	1910016.7	1910016.7	96.639 %		15:58:58
3	Y 371.029	1203274.2	1203274.2	96.331 %		15:58:58
3	Ag 328.068†	-141.3	-53.7	-0.4823 µg/L	-0.4823 ppb	15:59:03
3	As 188.979†	-5.2	-2.6	-5.7700 µg/L	-5.7700 ppb	15:59:24
3	B 249.677†	505.8	153.5	7.2611 µg/L	7.2611 ppb	15:59:03
3	Ba 233.527†	-25.9	-2.8	-0.0783 µg/L	-0.0783 ppb	15:59:24
3	Be 313.107†	3775.6	73.1	0.0491 µg/L	0.0491 ppb	15:59:03
3	Cd 226.502†	-114.8	6.5	0.1811 µg/L	0.1811 ppb	15:59:24
3	Co 228.616†	-42.5	5.3	0.2824 µg/L	0.2824 ppb	15:59:24
3	Cr 267.716†	-54.8	45.4	1.0177 µg/L	1.0177 ppb	15:59:24
3	Cu 324.752†	3770.2	1.4	0.0133 µg/L	0.0133 ppb	15:59:03
3	Mn 257.610†	-21.4	125.7	0.4466 µg/L	0.4466 ppb	15:59:24
3	Mo 202.031†	17.2	5.2	0.6324 µg/L	0.6324 ppb	15:59:24
3	Ni 231.604†	326.4	6.3	0.3825 µg/L	0.3825 ppb	15:59:24
3	P 214.914†	230.1	18.3	42.232 µg/L	42.232 ppb	15:59:24
3	Pb 220.353†	62.7	3.7	1.0396 µg/L	1.0396 ppb	15:59:24
3	S 181.975 Axial†	25.0	2.7	15.159 µg/L	15.159 ppb	15:59:24
3	Sb 206.836†	20.9	-2.4	-2.5532 µg/L	-2.5532 ppb	15:59:24
3	Se 196.026†	6.2	-1.5	-2.1948 µg/L	-2.1948 ppb	15:59:24
3	SiO2†	16324.6	14503.0	2961.2 µg/L	2961.2 ppb	15:59:03
3	Si 251.611†	16687.4	16985.5	1375.9 µg/L	1375.9 ppb	15:59:03
3	Sn 189.927†	29.4	6.9	3.9266 µg/L	3.9266 ppb	15:59:24
3	Ti 334.940†	830.2	155.2	0.3723 µg/L	0.3723 ppb	15:59:03
3	Tl 190.801†	-18.6	5.3	8.8645 µg/L	8.8645 ppb	15:59:24
3	U 409.014†	-261.7	-84.5	-7.8627 µg/L	-7.8627 ppb	15:59:03
3	V 292.402†	-102.6	9.1	0.1102 µg/L	0.1102 ppb	15:59:03
3	Zn 213.857†	656.7	47.3	1.3246 µg/L	1.3246 ppb	15:59:24

Mean Data: 245137001|944077|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1917097.4	96.997 %	0.3780			0.39%
Sc RADIAL	74602.7	95.1 %	0.28			0.30%
Y 371.029	1207716.5	96.686 %	0.3801			0.39%
Ag 328.068†	-35.8	-0.3213 µg/L	0.23984	-0.3213 ppb	0.23984	74.65%
Al 396.153Radial†	27.3	17.705 µg/L	6.5145	17.705 ppb	6.5145	36.80%
As 188.979†	-1.0	-2.2652 µg/L	4.17215	-2.2652 ppb	4.17215	184.19%
B 249.677†	136.7	6.4701 µg/L	1.63656	6.4701 ppb	1.63656	25.29%
Ba 233.527†	-0.3	-0.0089 µg/L	0.06319	-0.0089 ppb	0.06319	712.87%
Be 313.107†	70.3	0.0471 µg/L	0.03656	0.0471 ppb	0.03656	77.56%
Ca 317.933Radial†	36.2	26.088 µg/L	2.4062	26.088 ppb	2.4062	9.22%
Cd 226.502†	0.8	0.0218 µg/L	0.18240	0.0218 ppb	0.18240	836.01%
Co 228.616†	-2.9	-0.1546 µg/L	0.39030	-0.1546 ppb	0.39030	252.49%
Cr 267.716†	44.0	0.9855 µg/L	0.04492	0.9855 ppb	0.04492	4.56%
Cu 324.752†	-9.0	-0.0649 µg/L	0.07571	-0.0649 ppb	0.07571	116.73%
Fe 238.204 Radial†	0.7	9.4781 µg/L	11.02320	9.4781 ppb	11.02320	116.30%
K 766.490 Radial†	286.4	180.67 µg/L	24.214	180.67 ppb	24.214	13.40%
Mg 279.077 IEC†	1.6	16.004 µg/L	24.1820	16.004 ppb	24.1820	151.10%
Mn 257.610†	128.3	0.4555 µg/L	0.01982	0.4555 ppb	0.01982	4.35%
Mo 202.031†	3.7	0.4456 µg/L	0.49965	0.4456 ppb	0.49965	112.13%
Na 589.592 Radial†	207.9	55.348 µg/L	2.9894	55.348 ppb	2.9894	5.40%

Ni 231.604†	2.0	0.1240 µg/L	0.45590	0.1240 ppb	0.45590	367.58%
P 214.914†	17.1	39.554 µg/L	11.1001	39.554 ppb	11.1001	28.06%
Pb 220.353†	3.9	1.1085 µg/L	1.24252	1.1085 ppb	1.24252	112.09%
S 181.975 Axial†	6.8	38.074 µg/L	20.3674	38.074 ppb	20.3674	53.49%
Sb 206.836†	0.4	0.4469 µg/L	3.17241	0.4469 ppb	3.17241	709.91%
Se 196.026†	-1.4	-2.0084 µg/L	5.12413	-2.0084 ppb	5.12413	255.14%
SiO2†	14505.8	2961.7 µg/L	13.18	2961.7 ppb	13.18	0.44%
Si 251.611†	17011.4	1378.0 µg/L	5.12	1378.0 ppb	5.12	0.37%
Sn 189.927†	5.0	2.8080 µg/L	0.99484	2.8080 ppb	0.99484	35.43%
Sr 421.552†	54.7	0.3275 µg/L	0.05939	0.3275 ppb	0.05939	18.14%
Ti 334.940†	181.0	0.4366 µg/L	0.07457	0.4366 ppb	0.07457	17.08%
Tl 190.801†	2.1	3.5597 µg/L	5.18405	3.5597 ppb	5.18405	145.63%
U 409.014†	-31.3	-2.9089 µg/L	4.43293	-2.9089 ppb	4.43293	152.39%
V 292.402†	14.0	0.1719 µg/L	0.08810	0.1719 ppb	0.08810	51.26%
Zn 213.857†	47.2	1.3238 µg/L	0.00259	1.3238 ppb	0.00259	0.20%

Sequence No.: 33
 Sample ID: 245137002|944077|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 320
 Date Collected: 1/29/2010 15:59:33
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 245137002|944077|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74193.1	74193.1	94.5 %		16:00:06
1	Al 396.153Radial†	19.8	50.5	32.659 µg/L	32.659 ppb	16:00:06
1	Ca 317.933Radial†	282.9	52.1	37.535 µg/L	37.535 ppb	16:00:26
1	Fe 238.204 Radial†	18.7	3.4	44.948 µg/L	44.948 ppb	16:00:26
1	K 766.490 Radial†	616.2	253.1	159.71 µg/L	159.71 ppb	16:00:06
1	Mg 279.077 IEC†	8.7	1.0	10.225 µg/L	10.225 ppb	16:00:26
1	Na 589.592 Radial†	734.8	223.6	59.536 µg/L	59.536 ppb	16:00:06
1	Sr 421.552†	665.6	70.1	0.4191 µg/L	0.4191 ppb	16:00:06
1	Sc 361.383	1910655.5	1910655.5	96.671 %		16:01:27
1	Y 371.029	1202323.7	1202323.7	96.254 %		16:01:27
1	Ag 328.068†	-106.6	-17.6	-0.1577 µg/L	-0.1577 ppb	16:01:33
1	As 188.979†	-2.2	0.5	1.0768 µg/L	1.0768 ppb	16:01:54
1	B 249.677†	506.4	153.9	7.2673 µg/L	7.2673 ppb	16:01:33
1	Ba 233.527†	-16.4	7.0	0.1941 µg/L	0.1941 ppb	16:01:54
1	Be 313.107†	3758.7	54.4	0.0364 µg/L	0.0364 ppb	16:01:33
1	Cd 226.502†	-118.3	2.9	0.0766 µg/L	0.0766 ppb	16:01:54
1	Co 228.616†	-40.8	7.1	0.3759 µg/L	0.3759 ppb	16:01:54
1	Cr 267.716†	-52.3	48.1	1.0770 µg/L	1.0770 ppb	16:01:33
1	Cu 324.752†	3771.7	1.7	0.0184 µg/L	0.0184 ppb	16:01:33
1	Mn 257.610†	214.4	369.6	1.3157 µg/L	1.3157 ppb	16:01:54
1	Mo 202.031†	21.9	10.0	1.2160 µg/L	1.2160 ppb	16:01:54
1	Ni 231.604†	329.7	9.6	0.5809 µg/L	0.5809 ppb	16:01:54
1	P 214.914†	224.6	12.5	28.703 µg/L	28.703 ppb	16:01:54
1	Pb 220.353†	67.7	8.9	2.4899 µg/L	2.4899 ppb	16:01:54
1	S 181.975 Axial†	29.8	7.7	42.551 µg/L	42.551 ppb	16:01:54
1	Sb 206.836†	19.1	-4.3	-4.5126 µg/L	-4.5126 ppb	16:01:54
1	Se 196.026†	8.5	0.8	1.4596 µg/L	1.4596 ppb	16:01:54
1	SiO2†	16727.3	14914.0	3045.1 µg/L	3045.1 ppb	16:01:33
1	Si 251.611†	17202.7	17512.7	1418.6 µg/L	1418.6 ppb	16:01:33
1	Sn 189.927†	25.7	3.2	1.8002 µg/L	1.8002 ppb	16:01:54
1	Ti 334.940†	894.7	221.6	0.5355 µg/L	0.5355 ppb	16:01:33
1	Tl 190.801†	-22.5	1.2	2.0486 µg/L	2.0486 ppb	16:01:54
1	U 409.014†	-103.3	79.3	7.3640 µg/L	7.3640 ppb	16:01:33
1	V 292.402†	-128.0	-17.1	-0.1836 µg/L	-0.1836 ppb	16:01:33
1	Zn 213.857†	672.4	63.2	1.7726 µg/L	1.7726 ppb	16:01:54
2	Sc RADIAL	74178.7	74178.7	94.5 %		16:00:31
2	Al 396.153Radial†	-11.2	17.6	11.403 µg/L	11.403 ppb	16:00:31
2	Ca 317.933Radial†	291.5	61.2	44.092 µg/L	44.092 ppb	16:00:52
2	Fe 238.204 Radial†	19.8	4.6	61.334 µg/L	61.334 ppb	16:00:52
2	K 766.490 Radial†	699.3	341.2	215.24 µg/L	215.24 ppb	16:00:31
2	Mg 279.077 IEC†	14.8	7.5	77.283 µg/L	77.283 ppb	16:00:52
2	Na 589.592 Radial†	747.9	237.6	63.250 µg/L	63.250 ppb	16:00:31
2	Sr 421.552†	678.2	83.5	0.4993 µg/L	0.4993 ppb	16:00:31
2	Sc 361.383	1890072.9	1890072.9	95.629 %		16:01:59
2	Y 371.029	1189626.4	1189626.4	95.238 %		16:01:59
2	Ag 328.068†	-135.1	-48.7	-0.4357 µg/L	-0.4357 ppb	16:02:05
2	As 188.979†	0.1	2.8	6.1729 µg/L	6.1729 ppb	16:02:25
2	B 249.677†	496.1	148.8	7.0174 µg/L	7.0174 ppb	16:02:05
2	Ba 233.527†	-10.7	12.8	0.3563 µg/L	0.3563 ppb	16:02:25
2	Be 313.107†	3810.5	150.8	0.1012 µg/L	0.1012 ppb	16:02:05
2	Cd 226.502†	-126.9	-7.4	-0.2145 µg/L	-0.2145 ppb	16:02:25
2	Co 228.616†	-47.5	-0.3	-0.0172 µg/L	-0.0172 ppb	16:02:25
2	Cr 267.716†	-51.6	48.2	1.0793 µg/L	1.0793 ppb	16:02:05
2	Cu 324.752†	3796.3	69.8	0.5206 µg/L	0.5206 ppb	16:02:05
2	Mn 257.610†	222.6	380.6	1.3543 µg/L	1.3543 ppb	16:02:25
2	Mo 202.031†	19.4	7.7	0.9311 µg/L	0.9311 ppb	16:02:25
2	Ni 231.604†	331.4	15.2	0.9199 µg/L	0.9199 ppb	16:02:25
2	P 214.914†	231.6	22.3	51.349 µg/L	51.349 ppb	16:02:25
2	Pb 220.353†	61.6	3.3	0.9154 µg/L	0.9154 ppb	16:02:25

2	S 181.975 Axial†	30.1	8.4	46.581 µg/L	46.581 ppb	16:02:25
2	Sb 206.836†	19.3	-3.8	-4.0367 µg/L	-4.0367 ppb	16:02:25
2	Se 196.026†	11.4	4.0	6.2690 µg/L	6.2690 ppb	16:02:25
2	SiO2†	16789.0	15166.9	3096.7 µg/L	3096.7 ppb	16:02:05
2	Si 251.611†	17264.7	17771.3	1439.6 µg/L	1439.6 ppb	16:02:05
2	Sn 189.927†	29.9	7.8	4.4521 µg/L	4.4521 ppb	16:02:25
2	Ti 334.940†	999.1	340.9	0.8185 µg/L	0.8185 ppb	16:02:05
2	Tl 190.801†	-26.3	-2.9	-4.8693 µg/L	-4.8693 ppb	16:02:25
2	U 409.014†	-149.4	30.0	2.7813 µg/L	2.7813 ppb	16:02:05
2	V 292.402†	-106.9	3.5	0.0582 µg/L	0.0582 ppb	16:02:05
2	Zn 213.857†	662.6	60.6	1.6907 µg/L	1.6907 ppb	16:02:25
3	Sc RADIAL	74608.8	74608.8	95.1 %		16:00:57
3	Al 396.153Radial†	27.7	58.6	37.968 µg/L	37.968 ppb	16:00:57
3	Ca 317.933Radial†	283.5	51.0	36.779 µg/L	36.779 ppb	16:01:18
3	Fe 238.204 Radial†	18.3	2.9	38.993 µg/L	38.993 ppb	16:01:18
3	K 766.490 Radial†	644.2	278.9	175.97 µg/L	175.97 ppb	16:00:57
3	Mg 279.077 IEC†	7.6	-0.2	-1.9838 µg/L	-1.9838 ppb	16:01:18
3	Na 589.592 Radial†	760.9	246.7	65.682 µg/L	65.682 ppb	16:00:57
3	Sr 421.552†	695.6	97.6	0.5840 µg/L	0.5840 ppb	16:00:57
3	Sc 361.383	1894263.4	1894263.4	95.841 %		16:02:31
3	Y 371.029	1192263.6	1192263.6	95.449 %		16:02:31
3	Ag 328.068†	-70.5	19.0	0.1745 µg/L	0.1745 ppb	16:02:36
3	As 188.979†	-0.5	2.2	4.7799 µg/L	4.7799 ppb	16:02:57
3	B 249.677†	511.4	163.7	7.7349 µg/L	7.7349 ppb	16:02:36
3	Ba 233.527†	-10.6	12.9	0.3611 µg/L	0.3611 ppb	16:02:57
3	Be 313.107†	3779.9	110.1	0.0738 µg/L	0.0738 ppb	16:02:36
3	Cd 226.502†	-125.9	-6.1	-0.1765 µg/L	-0.1765 ppb	16:02:57
3	Co 228.616†	-53.2	-6.2	-0.3300 µg/L	-0.3300 ppb	16:02:57
3	Cr 267.716†	-62.0	37.5	0.8400 µg/L	0.8400 ppb	16:02:36
3	Cu 324.752†	3771.5	35.2	0.2637 µg/L	0.2637 ppb	16:02:36
3	Mn 257.610†	194.9	351.2	1.2500 µg/L	1.2500 ppb	16:02:57
3	Mo 202.031†	9.7	-2.5	-0.3025 µg/L	-0.3025 ppb	16:02:57
3	Ni 231.604†	331.0	14.0	0.8485 µg/L	0.8485 ppb	16:02:57
3	P 214.914†	223.2	13.0	29.968 µg/L	29.968 ppb	16:02:57
3	Pb 220.353†	69.5	11.3	3.1709 µg/L	3.1709 ppb	16:02:57
3	S 181.975 Axial†	31.7	9.9	55.270 µg/L	55.270 ppb	16:02:57
3	Sb 206.836†	24.3	1.4	1.4212 µg/L	1.4212 ppb	16:02:57
3	Se 196.026†	9.2	1.7	2.6467 µg/L	2.6467 ppb	16:02:57
3	SiO2†	16614.0	14945.5	3051.5 µg/L	3051.5 ppb	16:02:36
3	Si 251.611†	17101.3	17560.9	1422.5 µg/L	1422.5 ppb	16:02:36
3	Sn 189.927†	29.0	6.8	3.8675 µg/L	3.8675 ppb	16:02:57
3	Ti 334.940†	973.9	312.3	0.7556 µg/L	0.7556 ppb	16:02:36
3	Tl 190.801†	-26.1	-2.7	-4.4512 µg/L	-4.4512 ppb	16:02:57
3	U 409.014†	-110.4	71.1	6.5962 µg/L	6.5962 ppb	16:02:36
3	V 292.402†	-103.0	7.9	0.1031 µg/L	0.1031 ppb	16:02:36
3	Zn 213.857†	667.8	64.5	1.8071 µg/L	1.8071 ppb	16:02:57

Mean Data: 245137002|944077|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1898330.6	96.047 %	%	0.5503			0.57%
Sc RADIAL	74326.9	94.7 %	%	0.31			0.33%
Y 371.029	1194737.9	95.647 %	%	0.5364			0.56%
Ag 328.068†	-15.8	-0.1396 µg/L	µg/L	0.30551	-0.1396 ppb	0.30551	218.81%
Al 396.153Radial†	42.2	27.343 µg/L	µg/L	14.0577	27.343 ppb	14.0577	51.41%
As 188.979†	1.8	4.0099 µg/L	µg/L	2.63390	4.0099 ppb	2.63390	65.69%
B 249.677†	155.5	7.3399 µg/L	µg/L	0.36420	7.3399 ppb	0.36420	4.96%
Ba 233.527†	10.9	0.3038 µg/L	µg/L	0.09504	0.3038 ppb	0.09504	31.28%
Be 313.107†	105.1	0.0704 µg/L	µg/L	0.03251	0.0704 ppb	0.03251	46.15%
Ca 317.933Radial†	54.8	39.469 µg/L	µg/L	4.0220	39.469 ppb	4.0220	10.19%
Cd 226.502†	-3.5	-0.1048 µg/L	µg/L	0.15828	-0.1048 ppb	0.15828	151.02%
Co 228.616†	0.2	0.0095 µg/L	µg/L	0.35371	0.0095 ppb	0.35371	>999.9%
Cr 267.716†	44.6	0.9988 µg/L	µg/L	0.13750	0.9988 ppb	0.13750	13.77%
Cu 324.752†	35.6	0.2676 µg/L	µg/L	0.25110	0.2676 ppb	0.25110	93.85%
Fe 238.204 Radial†	3.7	48.425 µg/L	µg/L	11.5690	48.425 ppb	11.5690	23.89%
K 766.490 Radial†	291.1	183.64 µg/L	µg/L	28.547	183.64 ppb	28.547	15.55%
Mg 279.077 IEC†	2.8	28.508 µg/L	µg/L	42.6792	28.508 ppb	42.6792	149.71%
Mn 257.610†	367.2	1.3067 µg/L	µg/L	0.05270	1.3067 ppb	0.05270	4.03%
Mo 202.031†	5.1	0.6149 µg/L	µg/L	0.80714	0.6149 ppb	0.80714	131.27%
Na 589.592 Radial†	236.0	62.823 µg/L	µg/L	3.0956	62.823 ppb	3.0956	4.93%

Ni 231.604†	12.9	0.7831 µg/L	0.17874	0.7831 ppb	0.17874	22.82%
P 214.914†	15.9	36.673 µg/L	12.7255	36.673 ppb	12.7255	34.70%
Pb 220.353†	7.8	2.1920 µg/L	1.15683	2.1920 ppb	1.15683	52.77%
S 181.975 Axial†	8.7	48.134 µg/L	6.5002	48.134 ppb	6.5002	13.50%
Sb 206.836†	-2.2	-2.3760 µg/L	3.29714	-2.3760 ppb	3.29714	138.77%
Se 196.026†	2.2	3.4584 µg/L	2.50534	3.4584 ppb	2.50534	72.44%
SiO2†	15008.8	3064.4 µg/L	28.14	3064.4 ppb	28.14	0.92%
Si 251.611†	17615.0	1426.9 µg/L	11.14	1426.9 ppb	11.14	0.78%
Sn 189.927†	6.0	3.3732 µg/L	1.39331	3.3732 ppb	1.39331	41.30%
Sr 421.552†	83.7	0.5008 µg/L	0.08247	0.5008 ppb	0.08247	16.47%
Ti 334.940†	291.6	0.7032 µg/L	0.14861	0.7032 ppb	0.14861	21.13%
Tl 190.801†	-1.5	-2.4240 µg/L	3.87901	-2.4240 ppb	3.87901	160.03%
U 409.014†	60.1	5.5805 µg/L	2.45440	5.5805 ppb	2.45440	43.98%
V 292.402†	-1.9	-0.0074 µg/L	0.15423	-0.0074 ppb	0.15423	>999.9%
Zn 213.857†	62.8	1.7568 µg/L	0.05980	1.7568 ppb	0.05980	3.40%

Sequence No.: 34

Sample ID: 245137003|944077|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 321

Date Collected: 1/29/2010 16:03:06

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 245137003|944077|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74157.9	74157.9	94.5 %			16:03:39
1	Al 396.153Radial†	17.5	48.0	31.106 µg/L		31.106 ppb	16:03:39
1	Ca 317.933Radial†	271.5	40.2	28.939 µg/L		28.939 ppb	16:03:59
1	Fe 238.204 Radial†	16.6	1.2	16.492 µg/L		16.492 ppb	16:03:59
1	K 766.490 Radial†	698.2	340.2	214.66 µg/L		214.66 ppb	16:03:39
1	Mg 279.077 IEC†	8.9	1.3	13.261 µg/L		13.261 ppb	16:03:59
1	Na 589.592 Radial†	669.2	154.6	41.152 µg/L		41.152 ppb	16:03:39
1	Sr 421.552†	674.4	79.7	0.4769 µg/L		0.4769 ppb	16:03:39
1	Sc 361.383	1926596.1	1926596.1	97.477 %			16:05:01
1	Y 371.029	1215185.5	1215185.5	97.284 %			16:05:01
1	Ag 328.068†	-123.3	-33.9	-0.3031 µg/L		-0.3031 ppb	16:05:07
1	As 188.979†	-2.4	0.3	0.5996 µg/L		0.5996 ppb	16:05:27
1	B 249.677†	510.1	153.4	7.2599 µg/L		7.2599 ppb	16:05:07
1	Ba 233.527†	-19.7	3.8	0.1056 µg/L		0.1056 ppb	16:05:27
1	Be 313.107†	3792.4	56.8	0.0380 µg/L		0.0380 ppb	16:05:07
1	Cd 226.502†	-113.3	9.0	0.2540 µg/L		0.2540 ppb	16:05:27
1	Co 228.616†	-41.5	6.7	0.3581 µg/L		0.3581 ppb	16:05:27
1	Cr 267.716†	-43.9	57.1	1.2789 µg/L		1.2789 ppb	16:05:07
1	Cu 324.752†	3741.7	-61.4	-0.4480 µg/L		-0.4480 ppb	16:05:07
1	Mn 257.610†	93.9	244.2	0.8673 µg/L		0.8673 ppb	16:05:27
1	Mo 202.031†	16.9	4.8	0.5818 µg/L		0.5818 ppb	16:05:27
1	Ni 231.604†	320.6	-2.5	-0.1523 µg/L		-0.1523 ppb	16:05:27
1	P 214.914†	226.5	12.5	28.897 µg/L		28.897 ppb	16:05:27
1	Pb 220.353†	58.7	-1.0	-0.2787 µg/L		-0.2787 ppb	16:05:27
1	S 181.975 Axial†	32.7	10.5	58.150 µg/L		58.150 ppb	16:05:27
1	Sb 206.836†	20.9	-2.6	-2.7241 µg/L		-2.7241 ppb	16:05:27
1	Se 196.026†	7.9	0.2	0.3452 µg/L		0.3452 ppb	16:05:27
1	SiO2†	17037.6	15089.1	3080.8 µg/L		3080.8 ppb	16:05:07
1	Si 251.611†	17562.6	17734.7	1436.6 µg/L		1436.6 ppb	16:05:07
1	Sn 189.927†	25.7	3.0	1.6777 µg/L		1.6777 ppb	16:05:27
1	Ti 334.940†	937.8	258.2	0.6236 µg/L		0.6236 ppb	16:05:07
1	Tl 190.801†	-26.5	-2.7	-4.4038 µg/L		-4.4038 ppb	16:05:27
1	U 409.014†	-112.6	70.7	6.5706 µg/L		6.5706 ppb	16:05:07
1	V 292.402†	-86.8	26.2	0.3307 µg/L		0.3307 ppb	16:05:07
1	Zn 213.857†	655.6	40.3	1.1317 µg/L		1.1317 ppb	16:05:27
2	Sc RADIAL	74313.3	74313.3	94.7 %			16:04:05
2	Al 396.153Radial†	-5.5	23.7	15.348 µg/L		15.348 ppb	16:04:05
2	Ca 317.933Radial†	265.4	33.1	23.883 µg/L		23.883 ppb	16:04:25
2	Fe 238.204 Radial†	17.6	2.3	30.020 µg/L		30.020 ppb	16:04:25
2	K 766.490 Radial†	678.5	317.9	200.54 µg/L		200.54 ppb	16:04:05
2	Mg 279.077 IEC†	7.0	-0.7	-7.3603 µg/L		-7.3603 ppb	16:04:25
2	Na 589.592 Radial†	620.8	101.9	27.140 µg/L		27.140 ppb	16:04:05
2	Sr 421.552†	656.6	59.4	0.3555 µg/L		0.3555 ppb	16:04:05
2	Sc 361.383	1927974.7	1927974.7	97.547 %			16:05:33
2	Y 371.029	1215920.1	1215920.1	97.343 %			16:05:33
2	Ag 328.068†	-132.7	-43.5	-0.3870 µg/L		-0.3870 ppb	16:05:39
2	As 188.979†	-1.2	1.5	3.2930 µg/L		3.2930 ppb	16:05:59
2	B 249.677†	511.7	154.7	7.3116 µg/L		7.3116 ppb	16:05:39
2	Ba 233.527†	-22.0	1.4	0.0404 µg/L		0.0404 ppb	16:05:59
2	Be 313.107†	3826.7	89.1	0.0597 µg/L		0.0597 ppb	16:05:39
2	Cd 226.502†	-125.6	-3.4	-0.1000 µg/L		-0.1000 ppb	16:05:59
2	Co 228.616†	-54.1	-6.2	-0.3297 µg/L		-0.3297 ppb	16:05:59
2	Cr 267.716†	-46.8	54.2	1.2149 µg/L		1.2149 ppb	16:05:39
2	Cu 324.752†	3744.3	-61.5	-0.4465 µg/L		-0.4465 ppb	16:05:39
2	Mn 257.610†	88.7	238.8	0.8506 µg/L		0.8506 ppb	16:05:59
2	Mo 202.031†	13.1	0.9	0.1072 µg/L		0.1072 ppb	16:05:59
2	Ni 231.604†	331.6	8.5	0.5183 µg/L		0.5183 ppb	16:05:59
2	P 214.914†	229.4	15.3	35.350 µg/L		35.350 ppb	16:05:59
2	Pb 220.353†	75.1	15.8	4.4412 µg/L		4.4412 ppb	16:05:59

2	S 181.975 Axial†	30.1	7.8	43.208 µg/L	43.208 ppb	16:05:59
2	Sb 206.836†	28.2	4.9	5.2024 µg/L	5.2024 ppb	16:05:59
2	Se 196.026†	3.2	-4.7	-6.9391 µg/L	-6.9391 ppb	16:05:59
2	SiO2†	16837.4	14871.4	3036.4 µg/L	3036.4 ppb	16:05:39
2	Si 251.611†	17344.8	17498.5	1417.5 µg/L	1417.5 ppb	16:05:39
2	Sn 189.927†	26.7	3.9	2.1901 µg/L	2.1901 ppb	16:05:59
2	Ti 334.940†	923.7	243.1	0.5885 µg/L	0.5885 ppb	16:05:39
2	Tl 190.801†	-16.0	8.2	13.578 µg/L	13.578 ppb	16:05:59
2	U 409.014†	-258.9	-79.2	-7.3633 µg/L	-7.3633 ppb	16:05:39
2	V 292.402†	-68.7	44.9	0.5382 µg/L	0.5382 ppb	16:05:39
2	Zn 213.857†	650.9	35.0	0.9816 µg/L	0.9816 ppb	16:05:59
3	Sc RADIAL	74086.4	74086.4	94.4 %		16:04:31
3	Al 396.153Radial†	1.1	30.7	19.873 µg/L	19.873 ppb	16:04:31
3	Ca 317.933Radial†	269.0	37.8	27.255 µg/L	27.255 ppb	16:04:51
3	Fe 238.204 Radial†	16.4	1.0	13.672 µg/L	13.672 ppb	16:04:51
3	K 766.490 Radial†	672.5	313.7	197.93 µg/L	197.93 ppb	16:04:31
3	Mg 279.077 IEC†	10.8	3.3	33.758 µg/L	33.758 ppb	16:04:51
3	Na 589.592 Radial†	658.9	144.3	38.413 µg/L	38.413 ppb	16:04:31
3	Sr 421.552†	678.4	84.6	0.5063 µg/L	0.5063 ppb	16:04:31
3	Sc 361.383	1918829.7	1918829.7	97.084 %		16:06:05
3	Y 371.029	1210037.0	1210037.0	96.872 %		16:06:05
3	Ag 328.068†	-107.0	-17.6	-0.1553 µg/L	-0.1553 ppb	16:06:11
3	As 188.979†	1.6	4.4	9.6371 µg/L	9.6371 ppb	16:06:31
3	B 249.677†	507.2	152.5	7.2184 µg/L	7.2184 ppb	16:06:11
3	Ba 233.527†	-23.0	0.3	0.0096 µg/L	0.0096 ppb	16:06:31
3	Be 313.107†	3814.8	95.5	0.0641 µg/L	0.0641 ppb	16:06:11
3	Cd 226.502†	-128.4	-6.9	-0.1976 µg/L	-0.1976 ppb	16:06:31
3	Co 228.616†	-50.9	-3.1	-0.1677 µg/L	-0.1677 ppb	16:06:31
3	Cr 267.716†	-51.4	49.2	1.1034 µg/L	1.1034 ppb	16:06:11
3	Cu 324.752†	3740.3	-47.3	-0.3453 µg/L	-0.3453 ppb	16:06:11
3	Mn 257.610†	71.7	221.7	0.7864 µg/L	0.7864 ppb	16:06:31
3	Mo 202.031†	17.5	5.5	0.6613 µg/L	0.6613 ppb	16:06:31
3	Ni 231.604†	328.6	7.0	0.4251 µg/L	0.4251 ppb	16:06:31
3	P 214.914†	225.1	12.0	27.627 µg/L	27.627 ppb	16:06:31
3	Pb 220.353†	63.3	4.1	1.1470 µg/L	1.1470 ppb	16:06:31
3	S 181.975 Axial†	29.8	7.6	42.176 µg/L	42.176 ppb	16:06:31
3	Sb 206.836†	28.3	5.2	5.4857 µg/L	5.4857 ppb	16:06:31
3	Se 196.026†	10.6	2.9	4.4569 µg/L	4.4569 ppb	16:06:31
3	SiO2†	16787.5	14902.3	3042.7 µg/L	3042.7 ppb	16:06:11
3	Si 251.611†	17232.8	17467.9	1415.0 µg/L	1415.0 ppb	16:06:11
3	Sn 189.927†	20.0	-2.9	-1.6110 µg/L	-1.6110 ppb	16:06:31
3	Ti 334.940†	902.6	225.9	0.5437 µg/L	0.5437 ppb	16:06:11
3	Tl 190.801†	-22.5	1.4	2.3108 µg/L	2.3108 ppb	16:06:31
3	U 409.014†	-208.2	-28.2	-2.6268 µg/L	-2.6268 ppb	16:06:11
3	V 292.402†	-78.3	34.7	0.4228 µg/L	0.4228 ppb	16:06:11
3	Zn 213.857†	656.3	43.8	1.2270 µg/L	1.2270 ppb	16:06:31

Mean Data: 245137003|944077|1

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Conc.	Sample	Std.Dev.	RSD
Sc 361.383	1924466.8	97.370	%	0.2495				0.26%
Sc RADIAL	74185.9	94.5	%	0.15				0.16%
Y 371.029	1213714.2	97.166	%	0.2566				0.26%
Ag 328.068†	-31.7	-0.2818	µg/L	0.11730	-0.2818	ppb	0.11730	41.63%
Al 396.153Radial†	34.2	22.109	µg/L	8.1138	22.109	ppb	8.1138	36.70%
As 188.979†	2.1	4.5099	µg/L	4.64005	4.5099	ppb	4.64005	102.89%
B 249.677†	153.5	7.2633	µg/L	0.04668	7.2633	ppb	0.04668	0.64%
Ba 233.527†	1.8	0.0519	µg/L	0.04902	0.0519	ppb	0.04902	94.50%
Be 313.107†	80.5	0.0539	µg/L	0.01399	0.0539	ppb	0.01399	25.95%
Ca 317.933Radial†	37.0	26.692	µg/L	2.5746	26.692	ppb	2.5746	9.65%
Cd 226.502†	-0.4	-0.0145	µg/L	0.23766	-0.0145	ppb	0.23766	>999.9%
Co 228.616†	-0.9	-0.0464	µg/L	0.35959	-0.0464	ppb	0.35959	774.26%
Cr 267.716†	53.5	1.1991	µg/L	0.08882	1.1991	ppb	0.08882	7.41%
Cu 324.752†	-56.7	-0.4133	µg/L	0.05887	-0.4133	ppb	0.05887	14.25%
Fe 238.204 Radial†	1.5	20.061	µg/L	8.7391	20.061	ppb	8.7391	43.56%
K 766.490 Radial†	323.9	204.38	µg/L	9.002	204.38	ppb	9.002	4.40%
Mg 279.077 IEC†	1.3	13.220	µg/L	20.5594	13.220	ppb	20.5594	155.52%
Mn 257.610†	234.9	0.8347	µg/L	0.04269	0.8347	ppb	0.04269	5.11%
Mo 202.031†	3.7	0.4501	µg/L	0.29961	0.4501	ppb	0.29961	66.56%
Na 589.592 Radial†	133.6	35.568	µg/L	7.4269	35.568	ppb	7.4269	20.88%

Ni 231.604†	4.3	0.2637 µg/L	0.36328	0.2637 ppb	0.36328	137.77%
P 214.914†	13.3	30.625 µg/L	4.1409	30.625 ppb	4.1409	13.52%
Pb 220.353†	6.3	1.7698 µg/L	2.42083	1.7698 ppb	2.42083	136.78%
S 181.975 Axial†	8.6	47.845 µg/L	8.9397	47.845 ppb	8.9397	18.68%
Sb 206.836†	2.5	2.6547 µg/L	4.66033	2.6547 ppb	4.66033	175.55%
Se 196.026†	-0.5	-0.7123 µg/L	5.77113	-0.7123 ppb	5.77113	810.17%
SiO2†	14954.2	3053.3 µg/L	24.05	3053.3 ppb	24.05	0.79%
Si 251.611†	17567.0	1423.0 µg/L	11.83	1423.0 ppb	11.83	0.83%
Sn 189.927†	1.3	0.7523 µg/L	2.06259	0.7523 ppb	2.06259	274.18%
Sr 421.552†	74.6	0.4463 µg/L	0.07992	0.4463 ppb	0.07992	17.91%
Ti 334.940†	242.4	0.5853 µg/L	0.04002	0.5853 ppb	0.04002	6.84%
Tl 190.801†	2.3	3.8282 µg/L	9.08620	3.8282 ppb	9.08620	237.35%
U 409.014†	-12.2	-1.1399 µg/L	7.08497	-1.1399 ppb	7.08497	621.56%
V 292.402†	35.3	0.4306 µg/L	0.10394	0.4306 ppb	0.10394	24.14%
Zn 213.857†	39.7	1.1134 µg/L	0.12369	1.1134 ppb	0.12369	11.11%

Sequence No.: 35

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 1/29/2010 16:06:41

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	75302.5	75302.5	96.0 %		16:07:19
1	Al 396.153Radial†	7683.6	8037.4	5194.6 µg/L	5194.6 ppb	16:07:19
1	Ca 317.933Radial†	6896.1	6940.0	5000.6 µg/L	5000.6 ppb	16:07:39
1	Fe 238.204 Radial†	400.7	401.3	5325.3 µg/L	5325.3 ppb	16:07:39
1	K 766.490 Radial†	8476.2	8435.2	5321.8 µg/L	5321.8 ppb	16:07:19
1	Mg 279.077 IEC†	505.1	518.3	5322.3 µg/L	5322.3 ppb	16:07:39
1	Na 589.592 Radial†	37275.6	38295.0	10195 µg/L	10195 ppb	16:07:19
1	Sr 421.552†	84901.4	87850.4	525.51 µg/L	525.51 ppb	16:07:19
1	Sc 361.383	1936107.1	1936107.1	97.959 %		16:08:43
1	Y 371.029	1218986.6	1218986.6	97.588 %		16:08:43
1	Ag 328.068†	57805.0	59102.2	537.37 µg/L	537.37 ppb	16:08:49
1	As 188.979†	242.6	250.4	544.76 µg/L	544.76 ppb	16:09:09
1	B 249.677†	10936.6	10794.6	509.40 µg/L	509.40 ppb	16:08:49
1	Ba 233.527†	18729.4	19143.6	535.71 µg/L	535.71 ppb	16:08:49
1	Be 313.107†	782593.3	795068.5	534.74 µg/L	534.74 ppb	16:08:43
1	Cd 226.502†	18283.7	18790.0	532.32 µg/L	532.32 ppb	16:08:49
1	Co 228.616†	9858.2	10112.9	537.34 µg/L	537.34 ppb	16:08:49
1	Cr 267.716†	23527.6	24120.0	540.79 µg/L	540.79 ppb	16:08:49
1	Cu 324.752†	75936.8	73619.4	540.54 µg/L	540.54 ppb	16:08:49
1	Mn 257.610†	148869.1	152119.3	539.69 µg/L	539.69 ppb	16:08:43
1	Mo 202.031†	4334.6	4412.3	534.73 µg/L	534.73 ppb	16:09:09
1	Ni 231.604†	9004.2	8860.4	535.91 µg/L	535.91 ppb	16:08:49
1	P 214.914†	1380.1	1189.0	2688.3 µg/L	2688.3 ppb	16:09:09
1	Pb 220.353†	1953.0	1932.6	542.29 µg/L	542.29 ppb	16:09:09
1	S 181.975 Axial†	206.9	188.1	1045.8 µg/L	1045.8 ppb	16:09:09
1	Sb 206.836†	516.4	503.2	534.40 µg/L	534.40 ppb	16:09:09
1	Se 196.026†	350.9	350.3	546.56 µg/L	546.56 ppb	16:09:09
1	SiO2†	29834.0	28066.3	5730.5 µg/L	5730.5 ppb	16:08:49
1	Si 251.611†	32630.2	33027.8	2675.4 µg/L	2675.4 ppb	16:08:49
1	Sn 189.927†	972.6	969.4	549.06 µg/L	549.06 ppb	16:09:09
1	Ti 334.940†	218773.2	222628.5	537.82 µg/L	537.82 ppb	16:08:43
1	Tl 190.801†	289.7	320.2	538.04 µg/L	538.04 ppb	16:09:09
1	U 409.014†	5558.8	5860.9	543.70 µg/L	543.70 ppb	16:08:49
1	V 292.402†	43881.4	44911.2	546.61 µg/L	546.61 ppb	16:08:49
1	Zn 213.857†	19390.2	19162.1	534.86 µg/L	534.86 ppb	16:08:49
2	Sc RADIAL	74993.5	74993.5	95.6 %		16:07:45
2	Al 396.153Radial†	7629.6	8013.8	5179.3 µg/L	5179.3 ppb	16:07:45
2	Ca 317.933Radial†	6925.8	7000.6	5044.3 µg/L	5044.3 ppb	16:08:05
2	Fe 238.204 Radial†	395.1	397.1	5269.8 µg/L	5269.8 ppb	16:08:05
2	K 766.490 Radial†	8409.9	8402.3	5301.0 µg/L	5301.0 ppb	16:07:45
2	Mg 279.077 IEC†	506.6	522.0	5360.2 µg/L	5360.2 ppb	16:08:05
2	Na 589.592 Radial†	37062.2	38231.8	10179 µg/L	10179 ppb	16:07:45
2	Sr 421.552†	84533.5	87829.9	525.39 µg/L	525.39 ppb	16:07:45
2	Sc 361.383	1920931.0	1920931.0	97.191 %		16:09:16
2	Y 371.029	1208672.9	1208672.9	96.763 %		16:09:16
2	Ag 328.068†	57550.2	59306.2	539.22 µg/L	539.22 ppb	16:09:22
2	As 188.979†	242.4	252.1	548.55 µg/L	548.55 ppb	16:09:43
2	B 249.677†	10973.7	10920.9	515.41 µg/L	515.41 ppb	16:09:22
2	Ba 233.527†	18703.7	19268.3	539.19 µg/L	539.19 ppb	16:09:22
2	Be 313.107†	765527.5	783821.1	527.18 µg/L	527.18 ppb	16:09:16
2	Cd 226.502†	18269.1	18922.5	536.08 µg/L	536.08 ppb	16:09:22
2	Co 228.616†	9786.7	10118.9	537.67 µg/L	537.67 ppb	16:09:22
2	Cr 267.716†	23425.9	24205.1	542.70 µg/L	542.70 ppb	16:09:22
2	Cu 324.752†	75633.4	73919.6	542.74 µg/L	542.74 ppb	16:09:22
2	Mn 257.610†	145370.9	149720.7	531.18 µg/L	531.18 ppb	16:09:16
2	Mo 202.031†	4300.2	4412.0	534.69 µg/L	534.69 ppb	16:09:43
2	Ni 231.604†	8999.9	8928.7	540.04 µg/L	540.04 ppb	16:09:22
2	P 214.914†	1374.0	1193.8	2699.4 µg/L	2699.4 ppb	16:09:43
2	Pb 220.353†	1948.1	1943.3	545.28 µg/L	545.28 ppb	16:09:43

2	S 181.975 Axial†	214.0	197.0	1095.3 µg/L	1095.3 ppb	16:09:43
2	Sb 206.836†	523.2	514.3	546.14 µg/L	546.14 ppb	16:09:43
2	Se 196.026†	354.1	356.4	555.55 µg/L	555.55 ppb	16:09:43
2	SiO2†	29745.3	28215.7	5761.0 µg/L	5761.0 ppb	16:09:22
2	Si 251.611†	32598.9	33258.7	2694.1 µg/L	2694.1 ppb	16:09:22
2	Sn 189.927†	974.9	979.6	554.78 µg/L	554.78 ppb	16:09:43
2	Ti 334.940†	214014.2	219496.4	530.25 µg/L	530.25 ppb	16:09:16
2	Tl 190.801†	290.9	323.8	543.86 µg/L	543.86 ppb	16:09:43
2	U 409.014†	5484.7	5829.5	540.79 µg/L	540.79 ppb	16:09:22
2	V 292.402†	43614.9	44990.9	547.56 µg/L	547.56 ppb	16:09:22
2	Zn 213.857†	19327.7	19254.1	537.42 µg/L	537.42 ppb	16:09:22
3	Sc RADIAL	75634.1	75634.1	96.4 %		16:08:11
3	Al 396.153Radial†	7709.2	8028.9	5190.7 µg/L	5190.7 ppb	16:08:11
3	Ca 317.933Radial†	6920.3	6933.5	4995.9 µg/L	4995.9 ppb	16:08:31
3	Fe 238.204 Radial†	400.8	399.5	5300.5 µg/L	5300.5 ppb	16:08:31
3	K 766.490 Radial†	8496.3	8417.4	5310.6 µg/L	5310.6 ppb	16:08:11
3	Mg 279.077 IEC†	506.6	517.5	5313.4 µg/L	5313.4 ppb	16:08:31
3	Na 589.592 Radial†	37231.4	38078.8	10138 µg/L	10138 ppb	16:08:11
3	Sr 421.552†	85086.4	87654.4	524.34 µg/L	524.34 ppb	16:08:11
3	Sc 361.383	1912028.8	1912028.8	96.740 %		16:09:50
3	Y 371.029	1203217.2	1203217.2	96.326 %		16:09:50
3	Ag 328.068†	55297.3	57253.1	520.40 µg/L	520.40 ppb	16:09:55
3	As 188.979†	209.7	219.5	477.63 µg/L	477.63 ppb	16:10:16
3	B 249.677†	10419.5	10400.6	490.67 µg/L	490.67 ppb	16:09:55
3	Ba 233.527†	17370.9	17980.2	503.13 µg/L	503.13 ppb	16:09:55
3	Be 313.107†	733320.2	754195.7	507.25 µg/L	507.25 ppb	16:09:50
3	Cd 226.502†	16878.8	17572.8	497.80 µg/L	497.80 ppb	16:09:55
3	Co 228.616†	9006.4	9359.2	497.23 µg/L	497.23 ppb	16:09:55
3	Cr 267.716†	21027.9	21838.6	489.64 µg/L	489.64 ppb	16:09:55
3	Cu 324.752†	70001.5	68460.3	502.71 µg/L	502.71 ppb	16:09:55
3	Mn 257.610†	139668.0	144521.9	512.76 µg/L	512.76 ppb	16:09:50
3	Mo 202.031†	3631.7	3741.5	453.46 µg/L	453.46 ppb	16:10:16
3	Ni 231.604†	8304.0	8252.4	499.15 µg/L	499.15 ppb	16:09:55
3	P 214.914†	1217.5	1038.7	2344.8 µg/L	2344.8 ppb	16:10:16
3	Pb 220.353†	1708.2	1704.6	478.22 µg/L	478.22 ppb	16:10:16
3	S 181.975 Axial†	192.0	175.3	974.79 µg/L	974.79 ppb	16:10:16
3	Sb 206.836†	449.6	440.7	467.57 µg/L	467.57 ppb	16:10:16
3	Se 196.026†	314.5	317.1	496.66 µg/L	496.66 ppb	16:10:16
3	SiO2†	28109.8	26667.5	5444.9 µg/L	5444.9 ppb	16:09:55
3	Si 251.611†	30615.2	31364.3	2540.7 µg/L	2540.7 ppb	16:09:55
3	Sn 189.927†	821.0	825.3	467.78 µg/L	467.78 ppb	16:10:16
3	Ti 334.940†	203913.0	210080.0	507.49 µg/L	507.49 ppb	16:09:50
3	Tl 190.801†	262.2	295.5	496.61 µg/L	496.61 ppb	16:10:16
3	U 409.014†	5003.6	5358.4	497.00 µg/L	497.00 ppb	16:09:55
3	V 292.402†	39965.7	41427.7	503.90 µg/L	503.90 ppb	16:09:55
3	Zn 213.857†	17904.4	17875.5	498.91 µg/L	498.91 ppb	16:09:55

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1923022.3	97.297 %	0.6160			0.63%
Sc RADIAL	75310.1	96.0 %	0.41			0.43%
Y 371.029	1210292.3	96.892 %	0.6411			0.66%
Ag 328.068†	58553.9	532.33 µg/L	10.370	532.33 ppb	10.370	1.95%
QC value within limits for Ag 328.068 Recovery = 106.47%						
Al 396.153Radial†	8026.7	5188.2 µg/L	7.92	5188.2 ppb	7.92	0.15%
QC value within limits for Al 396.153Radial Recovery = 103.76%						
As 188.979†	240.7	523.65 µg/L	39.901	523.65 ppb	39.901	7.62%
QC value within limits for As 188.979 Recovery = 104.73%						
B 249.677†	10705.4	505.16 µg/L	12.906	505.16 ppb	12.906	2.55%
QC value within limits for B 249.677 Recovery = 101.03%						
Ba 233.527†	18797.4	526.01 µg/L	19.889	526.01 ppb	19.889	3.78%
QC value within limits for Ba 233.527 Recovery = 105.20%						
Be 313.107†	777695.1	523.06 µg/L	14.200	523.06 ppb	14.200	2.71%
QC value within limits for Be 313.107 Recovery = 104.61%						
Ca 317.933Radial†	6958.0	5013.6 µg/L	26.69	5013.6 ppb	26.69	0.53%
QC value within limits for Ca 317.933Radial Recovery = 100.27%						
Cd 226.502†	18428.4	522.06 µg/L	21.101	522.06 ppb	21.101	4.04%
QC value within limits for Cd 226.502 Recovery = 104.41%						
Co 228.616†	9863.7	524.08 µg/L	23.253	524.08 ppb	23.253	4.44%

Cr	267.716†	23387.9	524.38 µg/L	30.095	524.38 ppb	30.095	5.74%
Cu	324.752†	71999.8	528.66 µg/L	22.502	528.66 ppb	22.502	4.26%
Fe	238.204 Radial†	399.3	5298.6 µg/L	27.81	5298.6 ppb	27.81	0.52%
K	766.490 Radial†	8418.3	5311.1 µg/L	10.40	5311.1 ppb	10.40	0.20%
Mg	279.077 IEC†	519.3	5332.0 µg/L	24.85	5332.0 ppb	24.85	0.47%
Mn	257.610†	148787.3	527.87 µg/L	13.767	527.87 ppb	13.767	2.61%
Mo	202.031†	4188.6	507.63 µg/L	46.908	507.63 ppb	46.908	9.24%
Na	589.592 Radial†	38201.8	10171 µg/L	29.6	10171 ppb	29.6	0.29%
Ni	231.604†	8680.5	525.03 µg/L	22.514	525.03 ppb	22.514	4.29%
P	214.914†	1140.5	2577.5 µg/L	201.61	2577.5 ppb	201.61	7.82%
Pb	220.353†	1860.2	521.93 µg/L	37.885	521.93 ppb	37.885	7.26%
S	181.975 Axial†	186.8	1038.6 µg/L	60.56	1038.6 ppb	60.56	5.83%
Sb	206.836†	486.1	516.04 µg/L	42.385	516.04 ppb	42.385	8.21%
Se	196.026†	341.3	532.92 µg/L	31.726	532.92 ppb	31.726	5.95%
SiO2	†	27649.8	5645.4 µg/L	174.36	5645.4 ppb	174.36	3.09%
Si	251.611†	32550.3	2636.7 µg/L	83.72	2636.7 ppb	83.72	3.18%
Sn	189.927†	924.8	523.87 µg/L	48.662	523.87 ppb	48.662	9.29%
Sr	421.552†	87778.2	525.08 µg/L	0.644	525.08 ppb	0.644	0.12%
Ti	334.940†	217401.6	525.19 µg/L	15.787	525.19 ppb	15.787	3.01%
Tl	190.801†	313.2	526.17 µg/L	25.763	526.17 ppb	25.763	4.90%
U	409.014†	5682.9	527.17 µg/L	26.161	527.17 ppb	26.161	4.96%
V	292.402†	43776.6	532.69 µg/L	24.940	532.69 ppb	24.940	4.68%
Zn	213.857†	18763.9	523.73 µg/L	21.530	523.73 ppb	21.530	4.11%

QC value within limits for Co 228.616 Recovery = 104.82%

QC value within limits for Cr 267.716 Recovery = 104.88%

QC value within limits for Cu 324.752 Recovery = 105.73%

QC value within limits for Fe 238.204 Radial Recovery = 105.97%

QC value within limits for K 766.490 Radial Recovery = 106.22%

QC value within limits for Mg 279.077 IEC Recovery = 106.64%

QC value within limits for Mn 257.610 Recovery = 105.57%

QC value within limits for Mo 202.031 Recovery = 101.53%

QC value within limits for Na 589.592 Radial Recovery = 101.71%

QC value within limits for Ni 231.604 Recovery = 105.01%

QC value within limits for P 214.914 Recovery = 103.10%

QC value within limits for Pb 220.353 Recovery = 104.39%

QC value within limits for S 181.975 Axial Recovery = 103.86%

QC value within limits for Sb 206.836 Recovery = 103.21%

QC value within limits for Se 196.026 Recovery = 106.58%

QC value within limits for SiO2 Recovery = 105.57%

QC value within limits for Si 251.611 Recovery = 105.47%

QC value within limits for Sn 189.927 Recovery = 104.77%

QC value within limits for Sr 421.552 Recovery = 105.02%

QC value within limits for Ti 334.940 Recovery = 105.04%

QC value within limits for Tl 190.801 Recovery = 105.23%

QC value within limits for U 409.014 Recovery = 105.43%

QC value within limits for V 292.402 Recovery = 106.54%

QC value within limits for Zn 213.857 Recovery = 104.75%

All analyte(s) passed QC.

Sequence No.: 36

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 1/29/2010 16:10:25

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	74826.7	74826.7	95.3 %		16:10:58
1	Al 396.153Radial†	-23.9	4.4	2.8638 µg/L	2.8638 ppb	16:10:58
1	Ca 317.933Radial†	237.3	1.7	1.2027 µg/L	1.2027 ppb	16:11:18
1	Fe 238.204 Radial†	17.6	2.1	27.830 µg/L	27.830 ppb	16:11:18
1	K 766.490 Radial†	350.7	-30.9	-19.466 µg/L	-19.466 ppb	16:10:58
1	Mg 279.077 IEC†	11.7	4.1	42.146 µg/L	42.146 ppb	16:11:18
1	Na 589.592 Radial†	330.0	-207.6	-55.265 µg/L	-55.265 ppb	16:10:58
1	Sr 421.552†	658.4	56.6	0.3383 µg/L	0.3383 ppb	16:10:58
1	Sc 361.383	1917343.6	1917343.6	97.009 %		16:12:20
1	Y 371.029	1211421.2	1211421.2	96.983 %		16:12:20
1	Ag 328.068†	-122.5	-33.6	-0.3029 µg/L	-0.3029 ppb	16:12:26
1	As 188.979†	-0.5	2.2	4.9042 µg/L	4.9042 ppb	16:12:46
1	B 249.677†	129.9	-236.0	-11.195 µg/L	-11.195 ppb	16:12:26
1	Ba 233.527†	-19.4	4.0	0.1106 µg/L	0.1106 ppb	16:12:46
1	Be 313.107†	3862.7	148.0	0.0995 µg/L	0.0995 ppb	16:12:26
1	Cd 226.502†	-120.2	1.3	0.0353 µg/L	0.0353 ppb	16:12:46
1	Co 228.616†	-48.9	-1.1	-0.0563 µg/L	-0.0563 ppb	16:12:46
1	Cr 267.716†	-104.5	-5.5	-0.1244 µg/L	-0.1244 ppb	16:12:26
1	Cu 324.752†	3766.1	-17.7	-0.1259 µg/L	-0.1259 ppb	16:12:26
1	Mn 257.610†	-110.9	33.6	0.1210 µg/L	0.1210 ppb	16:12:26
1	Mo 202.031†	18.7	6.7	0.8095 µg/L	0.8095 ppb	16:12:46
1	Ni 231.604†	329.3	8.0	0.4851 µg/L	0.4851 ppb	16:12:46
1	P 214.914†	221.2	8.2	18.897 µg/L	18.897 ppb	16:12:46
1	Pb 220.353†	62.2	2.9	0.8339 µg/L	0.8339 ppb	16:12:46
1	S 181.975 Axial†	19.5	-3.0	-16.870 µg/L	-16.870 ppb	16:12:46
1	Sb 206.836†	21.3	-2.0	-2.1537 µg/L	-2.1537 ppb	16:12:46
1	Se 196.026†	9.4	1.7	2.6764 µg/L	2.6764 ppb	16:12:46
1	SiO2†	2293.6	-25.1	-5.1241 µg/L	-5.1241 ppb	16:12:26
1	Si 251.611†	295.4	22.1	1.7906 µg/L	1.7906 ppb	16:12:46
1	Sn 189.927†	28.8	6.2	3.5264 µg/L	3.5264 ppb	16:12:46
1	Ti 334.940†	759.5	79.0	0.1878 µg/L	0.1878 ppb	16:12:26
1	Tl 190.801†	-24.9	-1.1	-1.8284 µg/L	-1.8284 ppb	16:12:46
1	U 409.014†	-240.8	-62.0	-5.7649 µg/L	-5.7649 ppb	16:12:26
1	V 292.402†	-124.2	-12.8	-0.1521 µg/L	-0.1521 ppb	16:12:26
1	Zn 213.857†	692.4	81.5	2.2853 µg/L	2.2853 ppb	16:12:46
2	Sc RADIAL	74211.1	74211.1	94.6 %		16:11:24
2	Al 396.153Radial†	-20.2	8.2	5.2619 µg/L	5.2619 ppb	16:11:24
2	Ca 317.933Radial†	237.8	4.3	3.1082 µg/L	3.1082 ppb	16:11:44
2	Fe 238.204 Radial†	16.9	1.6	20.733 µg/L	20.733 ppb	16:11:44
2	K 766.490 Radial†	451.9	79.2	49.986 µg/L	49.986 ppb	16:11:24
2	Mg 279.077 IEC†	7.1	-0.6	-6.5311 µg/L	-6.5311 ppb	16:11:44
2	Na 589.592 Radial†	336.6	-197.7	-52.634 µg/L	-52.634 ppb	16:11:24
2	Sr 421.552†	618.2	19.7	0.1179 µg/L	0.1179 ppb	16:11:24
2	Sc 361.383	1928732.1	1928732.1	97.585 %		16:12:52
2	Y 371.029	1218669.5	1218669.5	97.563 %		16:12:52
2	Ag 328.068†	-128.5	-39.1	-0.3510 µg/L	-0.3510 ppb	16:12:58
2	As 188.979†	-3.8	-1.2	-2.5734 µg/L	-2.5734 ppb	16:13:18
2	B 249.677†	142.5	-223.9	-10.615 µg/L	-10.615 ppb	16:12:58
2	Ba 233.527†	-31.1	-7.9	-0.2208 µg/L	-0.2208 ppb	16:13:18
2	Be 313.107†	3875.5	137.6	0.0926 µg/L	0.0926 ppb	16:12:58
2	Cd 226.502†	-110.0	12.6	0.3560 µg/L	0.3560 ppb	16:13:18
2	Co 228.616†	-53.2	-5.2	-0.2765 µg/L	-0.2765 ppb	16:13:18
2	Cr 267.716†	-48.8	52.1	1.1675 µg/L	1.1675 ppb	16:12:58
2	Cu 324.752†	3730.9	-76.7	-0.5599 µg/L	-0.5599 ppb	16:12:58
2	Mn 257.610†	-89.4	56.3	0.2025 µg/L	0.2025 ppb	16:12:58
2	Mo 202.031†	22.7	10.7	1.2977 µg/L	1.2977 ppb	16:13:18
2	Ni 231.604†	336.9	13.9	0.8405 µg/L	0.8405 ppb	16:13:18
2	P 214.914†	216.9	2.5	5.7523 µg/L	5.7523 ppb	16:13:18
2	Pb 220.353†	62.0	2.3	0.6586 µg/L	0.6586 ppb	16:13:18

2	S 181.975 Axial†	18.6	-4.0	-22.474 µg/L	-22.474 ppb	16:13:18
2	Sb 206.836†	24.5	1.1	1.1714 µg/L	1.1714 ppb	16:13:18
2	Se 196.026†	2.3	-5.6	-8.2661 µg/L	-8.2661 ppb	16:13:18
2	SiO2†	2275.3	-57.8	-11.804 µg/L	-11.804 ppb	16:12:58
2	Si 251.611†	292.5	17.3	1.4030 µg/L	1.4030 ppb	16:13:18
2	Sn 189.927†	27.3	4.6	2.5744 µg/L	2.5744 ppb	16:13:18
2	Ti 334.940†	722.6	36.6	0.0890 µg/L	0.0890 ppb	16:12:58
2	Tl 190.801†	-27.7	-3.9	-6.4766 µg/L	-6.4766 ppb	16:13:18
2	U 409.014†	-142.6	40.1	3.7237 µg/L	3.7237 ppb	16:12:58
2	V 292.402†	-108.7	3.9	0.0645 µg/L	0.0645 ppb	16:12:58
2	Zn 213.857†	694.2	79.2	2.2218 µg/L	2.2218 ppb	16:13:18
3	Sc RADIAL	74086.3	74086.3	94.4 %		16:11:50
3	Al 396.153Radial†	-33.3	-5.8	-3.7759 µg/L	-3.7759 ppb	16:11:50
3	Ca 317.933Radial†	247.3	14.8	10.643 µg/L	10.643 ppb	16:12:10
3	Fe 238.204 Radial†	18.1	2.8	37.417 µg/L	37.417 ppb	16:12:10
3	K 766.490 Radial†	382.2	6.2	3.8832 µg/L	3.8832 ppb	16:11:50
3	Mg 279.077 IEC†	10.6	3.1	31.820 µg/L	31.820 ppb	16:12:10
3	Na 589.592 Radial†	316.2	-218.8	-58.243 µg/L	-58.243 ppb	16:11:50
3	Sr 421.552†	655.9	60.7	0.3634 µg/L	0.3634 ppb	16:11:50
3	Sc 361.383	1913120.9	1913120.9	96.796 %		16:13:24
3	Y 371.029	1208484.0	1208484.0	96.748 %		16:13:24
3	Ag 328.068†	-149.4	-61.8	-0.5527 µg/L	-0.5527 ppb	16:13:30
3	As 188.979†	0.2	2.9	6.3119 µg/L	6.3119 ppb	16:13:50
3	B 249.677†	168.2	-196.2	-9.3102 µg/L	-9.3102 ppb	16:13:30
3	Ba 233.527†	-26.4	-3.3	-0.0928 µg/L	-0.0928 ppb	16:13:50
3	Be 313.107†	3863.4	157.5	0.1059 µg/L	0.1059 ppb	16:13:30
3	Cd 226.502†	-129.7	-8.7	-0.2504 µg/L	-0.2504 ppb	16:13:50
3	Co 228.616†	-40.6	7.4	0.3947 µg/L	0.3947 ppb	16:13:50
3	Cr 267.716†	-35.7	65.3	1.4633 µg/L	1.4633 ppb	16:13:30
3	Cu 324.752†	3787.5	12.9	0.0997 µg/L	0.0997 ppb	16:13:30
3	Mn 257.610†	-47.3	99.0	0.3546 µg/L	0.3546 ppb	16:13:30
3	Mo 202.031†	19.2	7.2	0.8746 µg/L	0.8746 ppb	16:13:50
3	Ni 231.604†	324.2	3.6	0.2158 µg/L	0.2158 ppb	16:13:50
3	P 214.914†	224.3	11.9	27.311 µg/L	27.311 ppb	16:13:50
3	Pb 220.353†	66.3	7.4	2.0632 µg/L	2.0632 ppb	16:13:50
3	S 181.975 Axial†	21.8	-0.6	-3.3352 µg/L	-3.3352 ppb	16:13:50
3	Sb 206.836†	27.8	4.7	5.0003 µg/L	5.0003 ppb	16:13:50
3	Se 196.026†	8.3	0.7	1.1335 µg/L	1.1335 ppb	16:13:50
3	SiO2†	2300.3	-13.0	-2.6482 µg/L	-2.6482 ppb	16:13:30
3	Si 251.611†	294.4	21.7	1.7608 µg/L	1.7608 ppb	16:13:50
3	Sn 189.927†	26.0	3.4	1.9098 µg/L	1.9098 ppb	16:13:50
3	Ti 334.940†	777.4	99.3	0.2377 µg/L	0.2377 ppb	16:13:30
3	Tl 190.801†	-26.0	-2.4	-3.9426 µg/L	-3.9426 ppb	16:13:50
3	U 409.014†	-161.3	19.6	1.8154 µg/L	1.8154 ppb	16:13:30
3	V 292.402†	-78.4	34.3	0.4271 µg/L	0.4271 ppb	16:13:30
3	Zn 213.857†	677.5	67.7	1.8986 µg/L	1.8986 ppb	16:13:50

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1919732.2	97.130 %		0.4086			0.42%
Sc RADIAL	74374.7	94.8 %		0.51			0.53%
Y 371.029	1212858.3	97.098 %		0.4197			0.43%
Ag 328.068†	-44.8	-0.4022 µg/L		0.13257	-0.4022 ppb	0.13257	32.96%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	2.3	1.4500 µg/L		4.68184	1.4500 ppb	4.68184	322.90%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	1.3	2.8809 µg/L		4.77571	2.8809 ppb	4.77571	165.77%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-218.7	-10.373 µg/L		0.9655	-10.373 ppb	0.9655	9.31%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-2.4	-0.0677 µg/L		0.16713	-0.0677 ppb	0.16713	246.95%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	147.7	0.0993 µg/L		0.00666	0.0993 ppb	0.00666	6.70%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	6.9	4.9845 µg/L		4.99183	4.9845 ppb	4.99183	100.15%
QC value within limits for Ca 317.933Radial Recovery = Not calculated							
Cd 226.502†	1.8	0.0470 µg/L		0.30337	0.0470 ppb	0.30337	646.03%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	0.4	0.0206 µg/L		0.34217	0.0206 ppb	0.34217	>999.9%

Cr	267.716†	37.3	0.8354 µg/L	0.84433	0.8354 ppb	0.84433	101.06%
Cu	324.752†	-27.2	-0.1954 µg/L	0.33523	-0.1954 ppb	0.33523	171.60%
Fe	238.204 Radial†	2.2	28.660 µg/L	8.3731	28.660 ppb	8.3731	29.22%
K	766.490 Radial†	18.2	11.468 µg/L	35.3417	11.468 ppb	35.3417	308.19%
Mg	279.077 IEC†	2.2	22.478 µg/L	25.6480	22.478 ppb	25.6480	114.10%
Mn	257.610†	62.9	0.2260 µg/L	0.11856	0.2260 ppb	0.11856	52.46%
Mo	202.031†	8.2	0.9939 µg/L	0.26509	0.9939 ppb	0.26509	26.67%
Na	589.592 Radial†	-208.0	-55.381 µg/L	2.8061	-55.381 ppb	2.8061	5.07%
Ni	231.604†	8.5	0.5138 µg/L	0.31332	0.5138 ppb	0.31332	60.98%
P	214.914†	7.5	17.320 µg/L	10.8656	17.320 ppb	10.8656	62.73%
Pb	220.353†	4.2	1.1852 µg/L	0.76538	1.1852 ppb	0.76538	64.58%
S	181.975 Axial†	-2.6	-14.226 µg/L	9.8393	-14.226 ppb	9.8393	69.16%
Sb	206.836†	1.3	1.3393 µg/L	3.57991	1.3393 ppb	3.57991	267.29%
Se	196.026†	-1.1	-1.4854 µg/L	5.92269	-1.4854 ppb	5.92269	398.73%
SiO2†		-32.0	-6.5253 µg/L	4.73585	-6.5253 ppb	4.73585	72.58%
Si	251.611†	20.4	1.6515 µg/L	0.21570	1.6515 ppb	0.21570	13.06%
Sn	189.927†	4.7	2.6702 µg/L	0.81253	2.6702 ppb	0.81253	30.43%
Sr	421.552†	45.7	0.2732 µg/L	0.13506	0.2732 ppb	0.13506	49.44%
Ti	334.940†	71.6	0.1715 µg/L	0.07567	0.1715 ppb	0.07567	44.12%
Tl	190.801†	-2.5	-4.0825 µg/L	2.32722	-4.0825 ppb	2.32722	57.00%
U	409.014†	-0.8	-0.0753 µg/L	5.01892	-0.0753 ppb	5.01892	>999.9%
V	292.402†	8.5	0.1132 µg/L	0.29266	0.1132 ppb	0.29266	258.62%
Zn	213.857†	76.1	2.1353 µg/L	0.20735	2.1353 ppb	0.20735	9.71%

QC value within limits for Co 228.616 Recovery = Not calculated

QC value within limits for Cr 267.716 Recovery = Not calculated

QC value within limits for Cu 324.752 Recovery = Not calculated

QC value within limits for Fe 238.204 Radial Recovery = Not calculated

QC value within limits for K 766.490 Radial Recovery = Not calculated

QC value within limits for Mg 279.077 IEC Recovery = Not calculated

QC value within limits for Mn 257.610 Recovery = Not calculated

QC value within limits for Mo 202.031 Recovery = Not calculated

QC value within limits for Na 589.592 Radial Recovery = Not calculated

QC value within limits for Ni 231.604 Recovery = Not calculated

QC value within limits for P 214.914 Recovery = Not calculated

QC value within limits for Pb 220.353 Recovery = Not calculated

QC value within limits for S 181.975 Axial Recovery = Not calculated

QC value within limits for Sb 206.836 Recovery = Not calculated

QC value within limits for Se 196.026 Recovery = Not calculated

QC value within limits for SiO2 Recovery = Not calculated

QC value within limits for Si 251.611 Recovery = Not calculated

QC value within limits for Sn 189.927 Recovery = Not calculated

QC value within limits for Sr 421.552 Recovery = Not calculated

QC value within limits for Ti 334.940 Recovery = Not calculated

QC value within limits for Tl 190.801 Recovery = Not calculated

QC value within limits for U 409.014 Recovery = Not calculated

QC value within limits for V 292.402 Recovery = Not calculated

QC value within limits for Zn 213.857 Recovery = Not calculated

All analyte(s) passed QC.

ICPMS#3 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Friday, February 05, 2010 10:15:04

Sample Description:

Method File: C:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\100203\Sample.306

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		287.4		287.403	13.939	4.9
Mg	24.0		4139.4		4139.400	142.837	3.5
Co	58.9		12534.1		12534.096	94.249	0.8
Rh	102.9		35865.0		35864.967	329.041	0.9
In	114.9		58601.3		58601.349	168.062	0.3
Pb	208.0		47027.1		47027.082	438.333	0.9
[> Ba	137.9		43906.8		43906.767	275.988	0.6
[Ba++	69.0		834.5		0.019	0.001	3.1
[> Ce	139.9		57236.4		57236.436	437.541	0.8
[CeO	155.9		1111.9		0.019	0.001	4.0
Bkgd	220.0		2.8		2.800	1.204	43.0

Current Optimization File Data

Current Value	Description
1.00	Nebulizer Gas Flow
5.80	Lens Voltage
1450.00	ICP RF Power
-1812.00	Analog Stage Voltage
1250.00	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	17	5.5	373.7
Co	59	17	6.3	14435.6
In	115	17	7.0	75783.5

ICPMS#3 Instrument Tuning Report

File Name: 100205.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	588	2060	0.657
Be	9.0	9.0	2069	2060	0.654
Mg	24.0	24.0	5700	2110	0.594
Mg	25.0	25.0	5927	2020	0.689
Mg	26.0	26.0	6193	2140	0.658
Co	58.9	58.9	14199	2125	0.639
Rh	102.9	102.9	24908	2175	0.649
In	114.9	114.9	27825	2180	0.675
Ce	139.9	139.8	33909	2220	0.648
Pb	206.0	206.0	49992	2280	0.663
Pb	207.0	207.0	50284	2310	0.674
Pb	208.0	208.0	50474	2300	0.660
U	238.1	238.0	57838	2340	0.696

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, February 06, 2010 00:15:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\il only.mth

Dataset File: C:\elandata\Dataset\100205\Blank.282

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		145517	
[	TI	205	ug/L		431	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175				
[TI	205				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: Blank

Report Date/Time: Saturday, February 06, 2010 00:15:28

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ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Saturday, February 06, 2010 00:19:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\tl only.mth

Dataset File: C:\elandata\Dataset\100205\Standard 1.283

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		140257	140257.333
[	TI	205	10.000 ug/L	0.609	66107	0.468

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175				
[	TI	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, February 06, 2010 00:24:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Ti only.mth

Dataset File: C:\elandata\Dataset\100205\Standard 2.284

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		144157	144156.680
[	Ti	205	99.979 ug/L	1.923	661244	4.586

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Ti	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175				
[	Ti	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, February 06, 2010 00:28:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\TI only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 1.285

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		141406	141405.687
[TI	205	49.313	ug/L	1.204	320215	2.262

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			97.2		
[TI	205	98.626				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 1

Report Date/Time: Saturday, February 06, 2010 00:28:55

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, February 06, 2010 00:33:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\I only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 2.286

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		140244	140243.569
[	TI	205	0.016 ug/L	23.285	521	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		96.4		
[	TI	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Saturday, February 06, 2010 00:33:29

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Saturday, February 06, 2010 00:37:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 3.287

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		143743	143742.720
[	TI	205	1.006 ug/L	2.524	7054	0.046

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		98.8		
[	TI	205	100.575			

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 4

Sample Date/Time: Saturday, February 06, 2010 00:42:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 4.288

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		121466	121465.710
[	TI	205	ug/L	11.549	258	-0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		83.5		
[TI	205				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 4

Report Date/Time: Saturday, February 06, 2010 00:42:30

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ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Saturday, February 06, 2010 00:46:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\I only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 5.289

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		122858	122858.467
[	Tl	205	19.428 ug/L	2.578	109789	0.891

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		84.4		
[	Tl	205	97.141			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 5

Report Date/Time: Saturday, February 06, 2010 00:47:02

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 06, 2010 00:51:22

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\I only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 6.290

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		140967	140967.189
[	TI	205	ug/L	1.262	317893	2.252

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		96.9		
[	TI	205	98.193			

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: Saturday, February 06, 2010 00:55:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\dl only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 7.291

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		138616	138615.805
[	TI	205	0.002 ug/L	262.632	423	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		95.3		
[	TI	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Saturday, February 06, 2010 00:56:08

Page 1

ICPMS#3 - Summary Report

Sample ID: 1202021504

Sample Date/Time: Saturday, February 06, 2010 01:00:29

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 944080|1|prb

Method File: c:\elandata\Method\I only.mth

Dataset File: C:\elandata\Dataset\100205\1202021504.292

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		150200	150199.695
[TI 205	-0.034	ug/L	3.605	212	-0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		103.2			
[TI 205					

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: 1202021505

Sample Date/Time: Saturday, February 06, 2010 01:05:04

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 944080[1]prb

Method File: c:\elandata\Method\l only.mth

Dataset File: C:\elandata\Dataset\100205\1202021505.293

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		152091	152091.086
[TI 205	51.000	ug/L	1.735	356055	2.340

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		104.5			
[TI 205					

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: 1202021506

Sample Date/Time: Saturday, February 06, 2010 01:18:50

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 944080|1|prb

Method File: c:\elandata\Method\Tl only.mth

Dataset File: C:\elandata\Dataset\100205\1202021506.296

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		151592	151592.065
[TI 205	-0.024	ug/L	8.424	284	-0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		104.2			
[TI 205					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021506

Report Date/Time: Saturday, February 06, 2010 01:19:04

Page 1

ICPMS#3 - Summary Report

Sample ID: 1202021507

Sample Date/Time: Saturday, February 06, 2010 01:23:25

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 944080|1|prb

Method File: c:\elandata\Method\dl only.mth

Dataset File: C:\elandata\Dataset\100205\1202021507.297

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		154901	154901.242
[	TI	205	ug/L	1.352	717943	4.633

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		106.4		
[	TI	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021507

Report Date/Time: Saturday, February 06, 2010 01:23:38

Page 1

ICPMS#3 - Summary Report

Sample ID: 1202021508

Sample Date/Time: Saturday, February 06, 2010 01:27:59

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 944080|5|prb

Method File: c:\elandata\Method\dl only.mth

Dataset File: C:\elandata\Dataset\100205\1202021508.298

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		147834	147833.537
[	Tl	205	0.468 ug/L	4.417	3609	0.021

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		101.6		
[	Tl	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 06, 2010 01:32:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Ti only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 6.299

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		141909	141908.936
[	Ti	205	ug/L	0.524	319921	2.252

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Ti	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		97.5		
[	Ti	205	98.164			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Saturday, February 06, 2010 01:32:44

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 06, 2010 01:37:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\TI only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 7.300

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		146416	146415.605
[	TI	205	0.138 ug/L	6.958	1357	0.006

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		100.6		
[TI	205				

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: 245137001

Sample Date/Time: Saturday, February 06, 2010 01:50:50

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080|1|prb

Method File: c:\elandata\Method\I only.mth

Dataset File: C:\elandata\Dataset\100205\245137001.303

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		152390	152389.597
[	TI	205	ug/L	15.024	340	-0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		104.7		
[	TI	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 245137002

Sample Date/Time: Saturday, February 06, 2010 01:55:26

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080|1|prb

Method File: c:\elandata\Method\tl only.mth

Dataset File: C:\elandata\Dataset\100205\245137002.304

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		152435	152435.284
[TI	205	-0.024	ug/L	11.058	285	-0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			104.8		
[TI	205					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245137002

Report Date/Time: Saturday, February 06, 2010 01:55:40

Page 1

ICPMS#3 - Summary Report

Sample ID: 245137003

Sample Date/Time: Saturday, February 06, 2010 02:00:03

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080|1|prb

Method File: c:\elandata\Method\Tl only.mth

Dataset File: C:\elandata\Dataset\100205\245137003.305

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		152356	152356.433
[	Tl	205	ug/L	1.785	282	-0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		104.7		
[Tl	205				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245137003

Report Date/Time: Saturday, February 06, 2010 02:00:17

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, February 06, 2010 02:04:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\I only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 6.306

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		145134	145133.835
[TI	205	47.068	ug/L	0.658	313783	2.159

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			99.7		
[TI	205	94.136				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Saturday, February 06, 2010 02:04:49

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, February 06, 2010 02:09:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\I only.mth

Dataset File: C:\elandata\Dataset\100205\QC Std 7.307

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		147749	147749.095
[	TI	205	ug/L	8.327	805	0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
TI	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		101.5		
[	TI	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Saturday, February 06, 2010 02:09:23

Page 1

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Friday, January 29, 2010 10:33:23

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default2\Sample.1764

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	3174.0	3173.953	125.221	3.9
Mg	24.0	36293.2	36293.245	207.281	0.6
Co	58.9	71215.9	71215.873	409.898	0.6
Rh	102.9	132974.6	132974.630	808.835	0.6
In	114.9	183362.5	183362.507	1318.809	0.7
Pb	208.0	195545.5	195545.538	1945.968	1.0
[> Ba	137.9	182009.7	182009.668	2562.149	1.4
[Ba++	69.0	3432.7	0.019	0.000	2.6
[> Ce	139.9	224424.8	224424.768	1713.149	0.8
[CeO	155.9	4267.0	0.019	0.000	2.3
Bkgd	220.0	23.4	23.400	4.114	17.6

Current Optimization File Data

Current Value	Description
0.85	Nebulizer Gas Flow
11.00	Lens Voltage
1450.00	ICP RF Power
-1718.75	Analog Stage Voltage
1200.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	19	10.8	4490.0
Co	59	19	11.5	70444.6
In	115	19	13.0	181570.3

ICPMS #5 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	580	2050	0.661
Be	9.0	9.0	2055	2070	0.642
Mg	24.0	24.0	5677	2070	0.635
Mg	25.0	25.0	5941	2070	0.655
Mg	26.0	26.0	6165	2070	0.654
Co	58.9	58.9	14170	2105	0.643
Rh	102.9	102.9	24869	2165	0.626
In	114.9	114.9	27795	2185	0.631
Ce	139.9	139.9	33867	2200	0.644
Pb	206.0	206.0	49948	2270	0.711
Pb	207.0	207.0	50159	2235	0.672
Pb	208.0	208.0	50463	2260	0.727
U	238.1	238.0	57725	2275	0.723

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, January 29, 2010 11:55:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\Blank.026

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		418682	
[	U	238		ug/L		234	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175					
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, January 29, 2010 11:57:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\Standard 1.027

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		419966	419965.810
[	U	238	10.000	ug/L	0.460	460976	1.097

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175						
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, January 29, 2010 11:59:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\Standard 2.028

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		412357	412356.792
[U	238	99.792	ug/L	0.911	3736434	9.061

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> Lu	175						
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, January 29, 2010 12:01:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 1.029

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		412288	412287.631
[	U	238	52.742	ug/L	1.811	1974136	4.789

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175			98.5			
[U	238	105.484					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, January 29, 2010 12:03:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 2.030

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		419590	419589.960
[	U	238	0.006	ug/L	3.163	446	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		100.2				
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Friday, January 29, 2010 12:03:46

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Friday, January 29, 2010 12:05:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 3.031

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		433809	433809.132
[	U	238	0.230	ug/L	2.313	9290	0.021

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			103.6			
[U	238	114.859					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 3

Report Date/Time: Friday, January 29, 2010 12:06:03

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, January 29, 2010 12:08:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 4.032

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		399914	399913.739
[	U	238	0.001	ug/L	129.090	244	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dilution	Duplicate Rel. % Difference
[>	Lu	175			95.5		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, January 29, 2010 12:10:14

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 5.033

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		446405	446404.961
[	U	238	21.069	ug/L	1.135	854259	1.913

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175		106.6				
[	U	238	105.346					

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 29, 2010 12:12:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 6.034

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		422191	422190.562
[U	238	51.750	ug/L	0.365	1983999	4.699

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[> Lu	175			100.8			
[U	238	103.500					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 29, 2010 12:14:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 7.035

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		423111	423110.986
[	U	238	0.005	ug/L	15.578	417	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			101.1			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Friday, January 29, 2010 12:14:50

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 29, 2010 12:30:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 6.042

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		420663	420663.092
[	U	238	51.932	ug/L	0.069	1983796	4.715

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[>	Lu	175			100.5		
[U	238	103.865				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Friday, January 29, 2010 12:30:22

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 29, 2010 12:32:22

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 7.043

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		425788	425788.188
[	U	238	0.004	ug/L	23.392	401	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175			101.7			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Friday, January 29, 2010 12:32:34

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 29, 2010 12:50:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 6.049

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		420754	420754.458
[	U	238	50.844	ug/L	0.273	1942626	4.616

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175			100.5			
[U	238	101.688					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 29, 2010 12:52:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 7.050

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		435533	435532.819
[	U	238	0.003	ug/L	20.420	343	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			104.0		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, January 29, 2010 13:12:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\w only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 8.058

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		430729	430728.652
[	U	238	48.252	ug/L	0.263	1887311	4.381

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			102.9			
[U	238	96.504					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Friday, January 29, 2010 13:14:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 9.059

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		436243	436243.355
[	U	238	0.004	ug/L	24.845	390	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			104.2			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, January 29, 2010 13:28:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 8.065

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		443430	443429.938
[	U	238	46.837	ug/L	0.578	1886044	4.253

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			105.9			
[U	238	93.674					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 8

Report Date/Time: Friday, January 29, 2010 13:28:23

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ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Friday, January 29, 2010 13:30:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 9.066

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175			ug/L		448173	448172.593
[	U	238	0.003		ug/L	7.790	385	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			107.0			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202021504

Sample Date/Time: Friday, January 29, 2010 13:32:33

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\1202021504.067

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		423276	423275.717
[	U	238	-0.002	ug/L	11.992	157	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			101.1		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202021505

Sample Date/Time: Friday, January 29, 2010 13:34:42

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\1202021505.068

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		433687	433686.896
[	U	238	ug/L	1.198	1833982	4.228

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		103.6		
[	U	238				

QC Out Of Limits

Measurement Type: Analyte Mass: Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202021506

Sample Date/Time: Friday, January 29, 2010 13:41:12

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\1202021506.071

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		429757	429756.688
[	U	238	-0.001	ug/L	15.549	188	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			102.6		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202021507

Sample Date/Time: Friday, January 29, 2010 13:43:23

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 944080|1|ba|

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\1202021507.072

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		419086	419086.204
[	U	238	49.206	ug/L	1.514	1872346	4.468

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			100.1		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202021508

Sample Date/Time: Friday, January 29, 2010 13:45:35

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 944080|5|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\1202021508.073

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		434636	434636.454
[	U	238	0.003	ug/L	12.467	344	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			103.8			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, January 29, 2010 13:47:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 8.074

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		438096	438095.750
[	U	238	46.839	ug/L	1.435	1863313	4.253

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			104.6			
[U	238	93.677					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 8

Report Date/Time: Friday, January 29, 2010 13:47:57

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ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Friday, January 29, 2010 13:49:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 9.075

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		447404	447404.166
[	U	238	0.004	ug/L	25.838	398	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			106.9		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Friday, January 29, 2010 13:50:09

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ICPMS#5 - Summary Report

Sample ID: 245137001

Sample Date/Time: Friday, January 29, 2010 13:56:27

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100129\245137001.078

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175			ug/L		416674	416674.205
[	U	238	-0.002		ug/L	13.943	156	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		99.5			
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245137001

Report Date/Time: Friday, January 29, 2010 13:56:38

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ICPMS#5 - Summary Report

Sample ID: 245137002

Sample Date/Time: Friday, January 29, 2010 13:58:37

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\245137002.079

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175			ug/L		415134	415133.927
[	U	238	0.003		ug/L	19.040	349	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175			99.2			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245137003

Sample Date/Time: Friday, January 29, 2010 14:00:48

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\245137003.080

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		427678	427677.684
[	U	238	0.016	ug/L	10.119	866	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175			102.1		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 29, 2010 14:02:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 6.081

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		433977	433977.465
[	U	238	47.266	ug/L	0.401	1862700	4.292

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			103.7			
[	U	238	94.533					

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 29, 2010 14:05:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 7.082

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		442627	442627.421
[	U	238	0.004	ug/L	6.764	414	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[>	Lu	175			105.7			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Friday, January 29, 2010 14:05:22

Page 1

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, January 29, 2010 20:32:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\Blank.197

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	ug/L		56	
|	Be	9	ug/L		19	
|>	Sc	45	ug/L		257908	
|	Cr	52	ug/L		-2039	
|	Cr	53	ug/L		121338	
|	Mn	55	ug/L		978	
[	Ni	60	ug/L		236	
|>	Ge	74	ug/L		262004	
|	As	75	ug/L		301	
|	Se	77	ug/L		8732	
|	Se	82	ug/L		-14	
[	Kr	83	ug/L		88	
|	Mo	98	ug/L		74	
|	Ag	107	ug/L		55	
|	Cd	111	ug/L		21	
|	Cd	114	ug/L		40	
|>	In	115	ug/L		181560	
|	Sb	121	ug/L		248	
[	Sb	123	ug/L		199	
|>	Lu	175	ug/L		391348	
|	Tl	205	ug/L		2981	
[Pb	208	ug/L		537	

Sample ID: Blank

Report Date/Time: Friday, January 29, 2010 20:34:22

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Simple Linear	
Sc	45Linear Thru Zero	
Cr	52Simple Linear	
Cr	53Simple Linear	
Mn	55Simple Linear	
Ni	60Simple Linear	
Ge	74Simple Linear	
As	75Simple Linear	
Se	77Simple Linear	
Se	82Simple Linear	
Kr	83Simple Linear	
Mo	98Simple Linear	
Ag	107Simple Linear	
Cd	111Simple Linear	
Cd	114Simple Linear	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Simple Linear	
Tl	205Simple Linear	
Pb	208Simple Linear	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Ni	60					
|>	Ge	74					
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115					
|	Sb	121					
|	Sb	123					
|>	Lu	175					
|	Tl	205					
|	Pb	208					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, January 29, 2010 20:36:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\Standard 1.198

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	10.000	ug/L	3.812	14623	0.055
|	Be	9	10.000	ug/L	2.572	3543	0.013
[>	Sc	45		ug/L		264411	264411.240
|	Cr	52	10.000	ug/L	2.705	34050	0.137
|	Cr	53		ug/L		129435	0.019
|	Mn	55	10.000	ug/L	4.007	58800	0.219
[	Ni	60	10.000	ug/L	3.040	9815	0.036
[>	Ge	74		ug/L		266345	266344.920
|	As	75	10.000	ug/L	4.309	7632	0.028
|	Se	77		ug/L		9708	0.003
|	Se	82	10.000	ug/L	4.042	724	0.003
[	Kr	83		ug/L		89	-0.000
[	Mo	98	10.000	ug/L	3.200	23197	0.127
|	Ag	107	10.000	ug/L	0.690	41629	0.228
|	Cd	111	10.000	ug/L	1.894	10228	0.056
|	Cd	114		ug/L		25151	0.138
[>	In	115		ug/L		182463	182462.522
|	Sb	121	10.000	ug/L	4.123	39336	0.214
[	Sb	123		ug/L		30800	0.168
[>	Lu	175		ug/L		394035	394034.586
|	Tl	205	10.000	ug/L	5.071	196161	0.491
[	Pb	208	10.000	ug/L	3.166	296452	0.751

Sample ID: Standard 1

Report Date/Time: Friday, January 29, 2010 20:37:55

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Ni	60					
|>	Ge	74					
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115					
|	Sb	121					
|	Sb	123					
|>	Lu	175					
|	Tl	205					
|	Pb	208					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, January 29, 2010 20:39:53

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\Standard 2.199

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	99.981	ug/L	2.858	143380	0.541
Be	9	99.957	ug/L	2.216	33869	0.128
> Sc	45		ug/L		264979	264978.948
Cr	52	99.964	ug/L	1.573	347457	1.319
Cr	53		ug/L		143717	0.072
Mn	55	99.966	ug/L	3.548	561425	2.115
Ni	60	99.967	ug/L	2.327	93102	0.350
> Ge	74		ug/L		270010	270009.875
As	75	100.042	ug/L	1.333	77885	0.287
Se	77		ug/L		12579	0.013
Se	82	99.978	ug/L	1.373	7307	0.027
Kr	83		ug/L		106	0.000
Mo	98	99.967	ug/L	2.812	229029	1.227
Ag	107	99.919	ug/L	0.346	393323	2.107
Cd	111	99.992	ug/L	2.878	103533	0.555
Cd	114		ug/L		250738	1.343
> In	115		ug/L		186649	186648.681
Sb	121	99.962	ug/L	2.354	385270	2.063
Sb	123		ug/L		306804	1.643
> Lu	175		ug/L		399152	399151.740
Tl	205	99.805	ug/L	0.643	1639304	4.099
Pb	208	99.881	ug/L	0.469	2677208	6.706

Sample ID: Standard 2

Report Date/Time: Friday, January 29, 2010 20:41:29

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Ni	60					
|>	Ge	74					
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115					
|	Sb	121					
|	Sb	123					
|>	Lu	175					
|	Tl	205					
|	Pb	208					

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, January 29, 2010 20:43:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 1.200

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	48.893	ug/L	2.401	71574	0.265
| Be	9	49.756	ug/L	1.971	17214	0.064
[> Sc	45		ug/L		270434	270433.707
| Cr	52	49.807	ug/L	2.974	175638	0.657
| Cr	53		ug/L		134668	0.028
| Mn	55	49.878	ug/L	2.104	286371	1.055
[Ni	60	50.056	ug/L	3.575	47685	0.175
[> Ge	74		ug/L		275958	275957.928
| As	75	45.408	ug/L	3.061	36301	0.130
| Se	77		ug/L		10677	0.005
| Se	82	47.340	ug/L	1.866	3528	0.013
[Kr	83		ug/L		92	-0.000
[Mo	98	49.002	ug/L	3.970	112502	0.601
| Ag	107	50.311	ug/L	1.945	198447	1.061
| Cd	111	49.235	ug/L	3.392	51087	0.273
| Cd	114		ug/L		123131	0.658
[> In	115		ug/L		187021	187021.112
| Sb	121	50.938	ug/L	3.139	196818	1.051
[Sb	123		ug/L		155998	0.833
[> Lu	175		ug/L		401157	401157.212
| Tl	205	51.565	ug/L	2.519	852388	2.118
[Pb	208	52.124	ug/L	2.142	1403977	3.500

Sample ID: QC Std 1

Report Date/Time: Friday, January 29, 2010 20:45:03

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7	97.786				
|	Be	9	99.512				
|>	Sc	45		104.9			
|	Cr	52	99.614				
|	Cr	53					
|	Mn	55	99.756				
|	Ni	60	100.112				
|>	Ge	74		105.3			
|	As	75	90.815				
|	Se	77					
|	Se	82	94.679				
|	Kr	83					
|	Mo	98	98.003				
|	Ag	107	100.623				
|	Cd	111	98.470				
|	Cd	114					
|>	In	115		103.0			
|	Sb	121	101.877				
|	Sb	123					
|>	Lu	175		102.5			
|	Tl	205	103.129				
|	Pb	208	104.249				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, January 29, 2010 20:47:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 2.201

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	0.004	ug/L	118.124	63	0.000
| Be	9	0.002	ug/L	1442.448	20	0.000
[> Sc	45		ug/L		266474	266474.264
| Cr	52	0.376	ug/L	25.053	-782	0.005
| Cr	53		ug/L		105195	-0.076
| Mn	55	-0.017	ug/L	27.715	914	-0.000
[Ni	60	-0.010	ug/L	105.781	235	-0.000
[> Ge	74		ug/L		266758	266758.081
| As	75	-0.525	ug/L	67.507	-92	-0.002
| Se	77		ug/L		6978	-0.007
| Se	82	-0.094	ug/L	118.033	-21	-0.000
[Kr	83		ug/L		92	0.000
[Mo	98	0.046	ug/L	11.660	181	0.001
| Ag	107	0.001	ug/L	362.019	60	0.000
| Cd	111	0.003	ug/L	252.541	25	0.000
| Cd	114		ug/L		54	0.000
[> In	115		ug/L		186357	186357.474
| Sb	121	0.577	ug/L	5.782	2475	0.012
[Sb	123		ug/L		1973	0.009
[> Lu	175		ug/L		400009	400008.857
| Tl	205	0.477	ug/L	17.200	10893	0.020
[Pb	208	0.001	ug/L	160.112	573	0.000

Sample ID: QC Std 2

Report Date/Time: Friday, January 29, 2010 20:48:42

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		103.3			
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Ni	60					
|>	Ge	74		101.8			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		102.6			
|	Sb	121					
|	Sb	123					
|>	Lu	175		102.2			
|	Tl	205					
|	Pb	208					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Friday, January 29, 2010 20:50:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 3.202

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	11.131	ug/L	0.275	15758	0.060
|	Be	9	0.625	ug/L	5.362	227	0.001
>	Sc	45		ug/L		260693	260692.876
|	Cr	52	11.066	ug/L	2.702	35999	0.146
|	Cr	53		ug/L		121126	-0.006
|	Mn	55	5.754	ug/L	0.552	32732	0.122
[	Ni	60	2.159	ug/L	3.074	2213	0.008
>	Ge	74		ug/L		260214	260214.441
|	As	75	4.944	ug/L	11.031	3995	0.014
|	Se	77		ug/L		8311	-0.001
|	Se	82	5.563	ug/L	7.718	379	0.002
[	Kr	83		ug/L		79	-0.000
[	Mo	98	0.560	ug/L	1.467	1338	0.007
|	Ag	107	1.053	ug/L	2.345	4133	0.022
|	Cd	111	1.117	ug/L	3.466	1159	0.006
|	Cd	114		ug/L		2698	0.014
>	In	115		ug/L		183688	183687.883
|	Sb	121	3.554	ug/L	1.333	13724	0.073
[	Sb	123		ug/L		10858	0.058
>	Lu	175		ug/L		395404	395404.306
|	Tl	205	1.332	ug/L	2.425	24641	0.055
[	Pb	208	2.378	ug/L	1.732	63662	0.160

Sample ID: QC Std 3

Report Date/Time: Friday, January 29, 2010 20:52:17

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7	111.313				
|	Be	9	124.988				
|>	Sc	45		101.1			
|	Cr	52	110.662				
|	Cr	53					
|	Mn	55	115.083				
|	Ni	60	107.969				
|>	Ge	74		99.3			
|	As	75	98.879				
|	Se	77					
|	Se	82	111.263				
|	Kr	83					
|	Mo	98	112.072				
|	Ag	107	105.272				
|	Cd	111	111.693				
|	Cd	114					
|>	In	115		101.2			
|	Sb	121	118.460				
|	Sb	123					
|>	Lu	175		101.0			
|	Tl	205	133.217				
|	Pb	208	118.908				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Tl	205	CRDL is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, January 29, 2010 20:54:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 4.203

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.065	ug/L	17.890	152	0.000
Be	9	0.099	ug/L	19.512	54	0.000
> Sc	45		ug/L		267864	267863.511
Cr	52	3.017	ug/L	2.164	8545	0.040
Cr	53		ug/L		93131	-0.123
Mn	55	6.121	ug/L	2.598	35718	0.130
Ni	60	2.907	ug/L	4.719	2976	0.010
> Ge	74		ug/L		274724	274723.535
As	75	-0.405	ug/L	140.131	-7	-0.001
Se	77		ug/L		7752	-0.005
Se	82	-1.282	ug/L	21.407	-110	-0.000
Kr	83		ug/L		214	0.000
Mo	98	1964.723	ug/L	2.581	4467427	24.114
Ag	107	0.111	ug/L	10.526	489	0.002
Cd	111	0.664	ug/L	8.781	705	0.004
Cd	114		ug/L		6072	0.033
> In	115		ug/L		185299	185298.879
Sb	121	0.272	ug/L	17.385	1292	0.006
Sb	123		ug/L		1067	0.005
> Lu	175		ug/L		393331	393331.179
Tl	205	0.029	ug/L	34.577	3469	0.001
Pb	208	0.237	ug/L	2.625	6792	0.016

Sample ID: QC Std 4

Report Date/Time: Friday, January 29, 2010 20:55:52

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
>	Sc	45		103.9			
|	Cr	52	91.430				
|	Cr	53					
|	Mn	55	105.534				
|	Ni	60	87.827				
>	Ge	74		104.9			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[	Mo	98	98.236				
|	Ag	107					
|	Cd	111	149.569				
|	Cd	114					
>	In	115		102.1			
|	Sb	121					
|	Sb	123					
>	Lu	175		100.5			
|	Tl	205					
|	Pb	208	125.313				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, January 29, 2010 20:57:51

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 5.204

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	18.224	ug/L	1.447	27832	0.099
Be	9	17.970	ug/L	1.957	6491	0.023
> Sc	45		ug/L		281692	281691.715
Cr	52	22.330	ug/L	1.203	80786	0.295
Cr	53		ug/L		100760	-0.113
Mn	55	26.043	ug/L	0.272	156308	0.551
Ni	60	21.703	ug/L	2.706	21696	0.076
> Ge	74		ug/L		290522	290522.166
As	75	19.097	ug/L	7.458	16257	0.055
Se	77		ug/L		8437	-0.004
Se	82	17.946	ug/L	4.789	1399	0.005
Kr	83		ug/L		217	0.000
Mo	98	1888.965	ug/L	3.990	4436714	23.184
Ag	107	19.757	ug/L	1.827	79816	0.417
Cd	111	20.081	ug/L	5.346	21334	0.111
Cd	114		ug/L		55760	0.291
> In	115		ug/L		191521	191521.159
Sb	121	21.397	ug/L	2.711	84803	0.442
Sb	123		ug/L		66735	0.348
> Lu	175		ug/L		405355	405355.237
Tl	205	20.030	ug/L	1.868	336639	0.823
Pb	208	20.398	ug/L	2.046	555581	1.369

Sample ID: QC Std 5

Report Date/Time: Friday, January 29, 2010 20:59:29

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7	91.118					
|	Be	9	89.848					
|>	Sc	45		109.2				
|	Cr	52	95.838					
|	Cr	53						
|	Mn	55	100.944					
|	Ni	60	93.107					
|>	Ge	74		110.9				
|	As	75	95.485					
|	Se	77						
|	Se	82	89.728					
|	Kr	83						
|	Mo	98	94.448					
|	Ag	107	98.783					
|	Cd	111	98.225					
|	Cd	114						
|>	In	115		105.5				
|	Sb	121	106.985					
|	Sb	123						
|>	Lu	175		103.6				
|	Tl	205	100.152					
|	Pb	208	101.034					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 29, 2010 21:01:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 6.205

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	47.115	ug/L	3.235	72986	0.255
Be	9	47.503	ug/L	0.795	17399	0.061
> Sc	45		ug/L		286196	286196.283
Cr	52	49.795	ug/L	2.092	185763	0.657
Cr	53		ug/L		132982	-0.006
Mn	55	51.362	ug/L	1.996	312092	1.087
Ni	60	50.235	ug/L	1.531	50657	0.176
> Ge	74		ug/L		293070	293069.962
As	75	46.824	ug/L	1.061	39747	0.134
Se	77		ug/L		10036	0.001
Se	82	48.179	ug/L	2.148	3814	0.013
Kr	83		ug/L		104	0.000
Mo	98	49.310	ug/L	2.009	120550	0.605
Ag	107	50.627	ug/L	1.506	212595	1.068
Cd	111	48.814	ug/L	0.736	53934	0.271
Cd	114		ug/L		131484	0.660
> In	115		ug/L		199075	199075.229
Sb	121	50.973	ug/L	0.716	209723	1.052
Sb	123		ug/L		164272	0.824
> Lu	175		ug/L		417866	417865.856
Tl	205	50.092	ug/L	0.995	862817	2.057
Pb	208	51.462	ug/L	2.570	1443738	3.455

Sample ID: QC Std 6

Report Date/Time: Friday, January 29, 2010 21:03:05

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7	94.231					
|	Be	9	95.006					
>	Sc	45		111.0				
|	Cr	52	99.590					
|	Cr	53						
|	Mn	55	102.723					
|	Ni	60	100.471					
>	Ge	74		111.9				
|	As	75	93.648					
|	Se	77						
|	Se	82	96.357					
|	Kr	83						
|	Mo	98	98.619					
|	Ag	107	101.253					
|	Cd	111	97.628					
|	Cd	114						
>	In	115		109.6				
|	Sb	121	101.946					
|	Sb	123						
>	Lu	175		106.8				
|	Tl	205	100.184					
|	Pb	208	102.925					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 29, 2010 21:05:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 7.206

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	0.000	ug/L	774.096	64	0.000
| Be	9	-0.006	ug/L	286.878	19	-0.000
[> Sc	45		ug/L		292721	292721.491
| Cr	52	-0.148	ug/L	51.722	-2887	-0.002
| Cr	53		ug/L		106102	-0.108
| Mn	55	-0.028	ug/L	4.833	936	-0.001
[Ni	60	-0.004	ug/L	202.899	264	-0.000
[> Ge	74		ug/L		300133	300133.342
| As	75	-0.006	ug/L	2885.165	340	-0.000
| Se	77		ug/L		6597	-0.011
| Se	82	0.188	ug/L	88.846	-1	0.000
[Kr	83		ug/L		96	-0.000
[Mo	98	0.095	ug/L	1.219	314	0.001
| Ag	107	0.003	ug/L	36.940	72	0.000
| Cd	111	-0.002	ug/L	373.726	21	-0.000
| Cd	114		ug/L		51	0.000
[> In	115		ug/L		200125	200125.070
| Sb	121	0.198	ug/L	6.429	1091	0.004
[Sb	123		ug/L		859	0.003
[> Lu	175		ug/L		416893	416893.445
| Tl	205	0.686	ug/L	25.286	14918	0.028
[Pb	208	0.003	ug/L	26.113	643	0.000

Sample ID: QC Std 7

Report Date/Time: Friday, January 29, 2010 21:06:44

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
|	Be	9						
|>	Sc	45		113.5				
|	Cr	52						
|	Cr	53						
|	Mn	55						
[	Ni	60						
|>	Ge	74		114.6				
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[	Mo	98						
|	Ag	107						
|	Cd	111						
|	Cd	114						
|>	In	115		110.2				
|	Sb	121						
[	Sb	123						
|>	Lu	175		106.5				
|	Tl	205						
[Pb	208						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Friday, January 29, 2010 21:08:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 10.207

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	873.040	ug/L	1.867	1302881	4.723
|	Be	9	921.045	ug/L	0.574	324796	1.177
|>	Sc	45		ug/L		275913	275913.461
|	Cr	52	830.306	ug/L	0.564	3020945	10.958
|	Cr	53		ug/L		500525	1.345
|	Mn	55	846.230	ug/L	0.538	4941952	17.906
[	Ni	60	869.896	ug/L	0.783	841830	3.050
|>	Ge	74		ug/L		282206	282206.191
|	As	75	847.110	ug/L	3.107	686650	2.433
|	Se	77		ug/L		32429	0.082
|	Se	82	454.358	ug/L	1.896	34752	0.123
[	Kr	83		ug/L		132	0.000
[	Mo	98	941.375	ug/L	0.666	2203398	11.554
|	Ag	107	230.711	ug/L	1.286	927747	4.865
|	Cd	111	899.422	ug/L	1.883	951411	4.990
|	Cd	114		ug/L		2252979	11.813
|>	In	115		ug/L		190712	190712.316
|	Sb	121	232.819	ug/L	1.879	916513	4.806
[	Sb	123		ug/L		742962	3.896
|>	Lu	175		ug/L		412640	412640.208
|	Tl	205	440.958	ug/L	0.577	7476050	18.112
[Pb	208	4299.959	ug/L	2.512	119071174	288.694

Sample ID: QC Std 10

Report Date/Time: Friday, January 29, 2010 21:10:18

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7	87.304				
|	Be	9	92.104				
>	Sc	45		107.0			
|	Cr	52	83.031				
|	Cr	53					
|	Mn	55	84.623				
|	Ni	60	86.990				
>	Ge	74		107.7			
|	As	75	84.711				
|	Se	77					
|	Se	82	90.872				
|	Kr	83					
|	Mo	98	94.137				
|	Ag	107	92.284				
|	Cd	111	89.942				
|	Cd	114					
>	In	115		105.0			
|	Sb	121	93.127				
|	Sb	123					
>	Lu	175		105.4			
|	Tl	205	88.192				
|	Pb	208	85.999				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 10	Li	7	LRS is out of limits (+/- 10%)
QC Std 10	Cr	52	LRS is out of limits (+/- 10%)
QC Std 10	Mn	55	LRS is out of limits (+/- 10%)
QC Std 10	Ni	60	LRS is out of limits (+/- 10%)
QC Std 10	As	75	LRS is out of limits (+/- 10%)
QC Std 10	Cd	111	LRS is out of limits (+/- 10%)
QC Std 10	Tl	205	LRS is out of limits (+/- 10%)
QC Std 10	Pb	208	LRS is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Friday, January 29, 2010 21:12:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 11.208

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	46.144	ug/L	2.681	74036	0.250
| Be	9	48.146	ug/L	3.493	18252	0.062
| > Sc	45		ug/L		296384	296383.993
| Cr	52	50.874	ug/L	1.714	196663	0.671
| Cr	53		ug/L		133237	-0.021
| Mn	55	51.435	ug/L	2.352	323603	1.088
[Ni	60	50.804	ug/L	1.847	53050	0.178
| > Ge	74		ug/L		298771	298771.494
| As	75	48.072	ug/L	1.786	41590	0.138
| Se	77		ug/L		9472	-0.002
| Se	82	49.521	ug/L	1.982	3996	0.013
[Kr	83		ug/L		100	-0.000
[Mo	98	52.118	ug/L	2.484	126491	0.640
| Ag	107	53.171	ug/L	2.318	221605	1.121
| Cd	111	51.680	ug/L	0.659	56683	0.287
| Cd	114		ug/L		134517	0.681
| > In	115		ug/L		197622	197622.261
| Sb	121	54.403	ug/L	0.673	222179	1.123
[Sb	123		ug/L		174313	0.881
| > Lu	175		ug/L		414773	414773.366
| Tl	205	53.734	ug/L	0.835	918562	2.207
[Pb	208	53.167	ug/L	1.429	1481061	3.570

Sample ID: QC Std 11

Report Date/Time: Friday, January 29, 2010 21:13:52

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % D	Duplicate Rel. % Difference
[	Li	7	92.288				
|	Be	9	96.292				
|>	Sc	45		114.9			
|	Cr	52	101.748				
|	Cr	53					
|	Mn	55	102.869				
|	Ni	60	101.607				
|>	Ge	74		114.0			
|	As	75	96.144				
|	Se	77					
|	Se	82	99.042				
|	Kr	83					
|	Mo	98	104.236				
|	Ag	107	106.341				
|	Cd	111	103.359				
|	Cd	114					
|>	In	115		108.8			
|	Sb	121	108.806				
|	Sb	123					
|>	Lu	175		106.0			
|	Tl	205	107.467				
|	Pb	208	106.335				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Friday, January 29, 2010 21:15:53

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 12.209

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	0.046	ug/L	9.470	141	0.000
[Be	9	-0.008	ug/L	113.854	19	-0.000
[> Sc	45		ug/L		301165	301165.216
[Cr	52	0.031	ug/L	415.358	-2254	0.000
[Cr	53		ug/L		106499	-0.117
[Mn	55	-0.025	ug/L	25.510	981	-0.001
[Ni	60	0.015	ug/L	152.220	291	0.000
[> Ge	74		ug/L		307158	307158.084
[As	75	0.358	ug/L	63.572	667	0.001
[Se	77		ug/L		6294	-0.013
[Se	82	0.063	ug/L	201.043	-11	0.000
[Kr	83		ug/L		98	-0.000
[Mo	98	0.154	ug/L	3.844	469	0.002
[Ag	107	0.002	ug/L	171.498	72	0.000
[Cd	111	0.010	ug/L	35.753	35	0.000
[Cd	114		ug/L		57	0.000
[> In	115		ug/L		204750	204750.057
[Sb	121	1.167	ug/L	8.539	5206	0.024
[Sb	123		ug/L		4028	0.019
[> Lu	175		ug/L		423125	423124.568
[Tl	205	0.717	ug/L	18.997	15686	0.029
[Pb	208	0.024	ug/L	28.439	1261	0.002

Sample ID: QC Std 12

Report Date/Time: Friday, January 29, 2010 21:17:31

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Ti	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate	Rel. % Difference
[	Li	7						
|	Be	9						
>	Sc	45		116.8				
|	Cr	52						
|	Cr	53						
|	Mn	55						
[	Ni	60						
>	Ge	74		117.2				
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
|	Mo	98						
|	Ag	107						
|	Cd	111						
|	Cd	114						
>	In	115		112.8				
|	Sb	121						
[	Sb	123						
>	Lu	175		108.1				
|	Tl	205						
[	Pb	208						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202021504

Sample Date/Time: Friday, January 29, 2010 21:19:29

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\1202021504.210

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.075	ug/L		8.461	197	0.000
|	Be	9	-0.013	ug/L		104.622	18	-0.000
[>	Sc	45		ug/L			316209	316208.628
|	Cr	52	-0.542	ug/L		13.358	-4767	-0.007
|	Cr	53		ug/L			252447	0.328
|	Mn	55	0.094	ug/L		7.771	1828	0.002
[	Ni	60	-0.135	ug/L		8.466	140	-0.000
[>	Ge	74		ug/L			316660	316659.652
|	As	75	-0.087	ug/L		715.447	282	-0.000
|	Se	77		ug/L			17924	0.023
|	Se	82	-0.034	ug/L		752.574	-20	-0.000
[	Kr	83		ug/L			109	0.000
[	Mo	98	0.066	ug/L		18.480	248	0.001
|	Ag	107	-0.003	ug/L		9.675	50	-0.000
|	Cd	111	0.003	ug/L		463.740	27	0.000
|	Cd	114		ug/L			31	-0.000
[>	In	115		ug/L			204159	204159.361
|	Sb	121	0.732	ug/L		23.350	3350	0.015
[	Sb	123		ug/L			2584	0.012
[>	Lu	175		ug/L			433860	433859.591
|	Tl	205	0.174	ug/L		5.214	6409	0.007
|	Pb	208	0.002	ug/L		132.342	644	0.000

Sample ID: 1202021504

Report Date/Time: Friday, January 29, 2010 21:21:06

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		122.6			
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Ni	60					
|>	Ge	74		120.9			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		112.4			
|	Sb	121					
|	Sb	123					
|>	Lu	175		110.9			
|	Tl	205					
|	Pb	208					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sc 45 Int Std for sar	Sc	45	
Ge 74 Int Std for sar	Ge	74	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 1202021505

Sample Date/Time: Friday, January 29, 2010 21:23:05

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\1202021505.211

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	42.667	ug/L	2.022	72945	0.231
| Be	9	46.384	ug/L	2.169	18741	0.059
|> Sc	45		ug/L		315760	315759.956
| Cr	52	47.404	ug/L	2.741	195015	0.626
| Cr	53		ug/L		286382	0.437
| Mn	55	48.381	ug/L	2.619	324370	1.024
[Ni	60	47.999	ug/L	1.555	53416	0.168
|> Ge	74		ug/L		322555	322555.344
| As	75	47.158	ug/L	3.696	44055	0.135
| Se	77		ug/L		21355	0.033
| Se	82	47.288	ug/L	2.834	4120	0.013
[Kr	83		ug/L		110	0.000
| Mo	98	47.302	ug/L	1.209	117722	0.581
| Ag	107	48.899	ug/L	0.891	209004	1.031
| Cd	111	49.536	ug/L	1.514	55711	0.275
| Cd	114		ug/L		133196	0.657
|> In	115		ug/L		202635	202634.692
| Sb	121	51.291	ug/L	0.972	214794	1.059
[Sb	123		ug/L		167830	0.827
|> Lu	175		ug/L		426157	426156.627
| Tl	205	47.208	ug/L	0.780	829573	1.939
[Pb	208	51.559	ug/L	1.013	1475690	3.462

Sample ID: 1202021505

Report Date/Time: Friday, January 29, 2010 21:24:42

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		122.4			
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Ni	60					
|>	Ge	74		123.1			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		111.6			
|	Sb	121					
|	Sb	123					
|>	Lu	175		108.9			
|	Tl	205					
|	Pb	208					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sc 45 Int Std for san	Sc	45	
Ge 74 Int Std for san	Ge	74	

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 1202021506

Sample Date/Time: Friday, January 29, 2010 21:33:55

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\1202021506.214

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.101	ug/L	6.822	232	0.001
|	Be	9	0.000	ug/L	21564.678	22	0.000
|>	Sc	45		ug/L		302137	302137.058
|	Cr	52	0.535	ug/L	74.297	-263	0.007
|	Cr	53		ug/L		313507	0.567
|	Mn	55	0.675	ug/L	3.029	5460	0.014
[	Ni	60	-0.033	ug/L	35.201	242	-0.000
|>	Ge	74		ug/L		313156	313155.662
|	As	75	-0.730	ug/L	75.118	-301	-0.002
|	Se	77		ug/L		23437	0.042
|	Se	82	0.028	ug/L	478.038	-14	0.000
[	Kr	83		ug/L		107	0.000
[	Mo	98	0.014	ug/L	45.101	114	0.000
|	Ag	107	0.000	ug/L	188.974	62	0.000
|	Cd	111	-0.001	ug/L	594.722	22	-0.000
|	Cd	114		ug/L		27	-0.000
|>	In	115		ug/L		198635	198634.911
|	Sb	121	0.050	ug/L	24.445	474	0.001
[	Sb	123		ug/L		352	0.001
|>	Lu	175		ug/L		416693	416692.772
|	Tl	205	0.143	ug/L	10.146	5617	0.006
[Pb	208	0.186	ug/L	1.875	5767	0.012

Sample ID: 1202021506

Report Date/Time: Friday, January 29, 2010 21:35:33

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		117.1			
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Ni	60					
|>	Ge	74		119.5			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		109.4			
|	Sb	121					
|	Sb	123					
|>	Lu	175		106.5			
|	Tl	205					
|	Pb	208					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202021507

Sample Date/Time: Friday, January 29, 2010 21:37:33

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 944080|1|ba|

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\1202021507.215

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	45.019	ug/L	3.874	73970	0.244
Be	9	48.766	ug/L	1.717	18939	0.062
> Sc	45		ug/L		303479	303479.105
Cr	52	49.333	ug/L	2.837	195165	0.651
Cr	53		ug/L		298709	0.514
Mn	55	50.233	ug/L	2.841	323694	1.063
Ni	60	49.723	ug/L	1.397	53181	0.174
> Ge	74		ug/L		310482	310481.758
As	75	74.193	ug/L	0.522	66519	0.213
Se	77		ug/L		21123	0.035
Se	82	20.260	ug/L	2.952	1689	0.005
Kr	83		ug/L		110	0.000
Mo	98	50.039	ug/L	0.318	121345	0.614
Ag	107	52.612	ug/L	1.457	219110	1.109
Cd	111	10.418	ug/L	0.893	11436	0.058
Cd	114		ug/L		27114	0.137
> In	115		ug/L		197450	197449.898
Sb	121	207.327	ug/L	0.696	845224	4.279
Sb	123		ug/L		677150	3.428
> Lu	175		ug/L		419333	419332.914
Tl	205	83.628	ug/L	5.550	1443112	3.435
Pb	208	43.069	ug/L	0.925	1213012	2.892

Sample ID: 1202021507

Report Date/Time: Friday, January 29, 2010 21:39:11

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate	Rel. % Difference
[	Li	7						
|	Be	9						
|>	Sc	45		117.7				
|	Cr	52						
|	Cr	53						
|	Mn	55						
|	Ni	60						
|>	Ge	74		118.5				
|	As	75						
|	Se	77						
|	Se	82						
|	Kr	83						
|	Mo	98						
|	Ag	107						
|	Cd	111						
|	Cd	114						
|>	In	115		108.8				
|	Sb	121						
|	Sb	123						
|>	Lu	175		107.2				
|	Tl	205						
|	Pb	208						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202021508

Sample Date/Time: Friday, January 29, 2010 21:41:11

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 944080[5]baj

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\1202021508.216

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.024		ug/L	17.744	103	0.000
|	Be	9	-0.003		ug/L	262.418	20	-0.000
|>	Sc	45			ug/L		293036	293036.470
|	Cr	52	0.488		ug/L	26.674	-431	0.006
|	Cr	53			ug/L		173618	0.122
|	Mn	55	0.135		ug/L	13.596	1946	0.003
[	Ni	60	-0.059		ug/L	13.788	208	-0.000
[>	Ge	74			ug/L		297312	297312.461
|	As	75	-0.219		ug/L	303.505	154	-0.001
|	Se	77			ug/L		11822	0.006
|	Se	82	-0.164		ug/L	115.607	-29	-0.000
[	Kr	83			ug/L		109	0.000
[	Mo	98	0.023		ug/L	36.273	137	0.000
|	Ag	107	-0.001		ug/L	15.222	57	-0.000
|	Cd	111	0.003		ug/L	380.445	27	0.000
|	Cd	114			ug/L		32	-0.000
|>	In	115			ug/L		200558	200558.006
|	Sb	121	0.024		ug/L	7.151	374	0.001
[	Sb	123			ug/L		297	0.000
[>	Lu	175			ug/L		423630	423630.438
|	Tl	205	3.923		ug/L	15.232	71564	0.161
[Pb	208	0.031		ug/L	5.054	1473	0.002

Sample ID: 1202021508

Report Date/Time: Friday, January 29, 2010 21:42:50

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
|	Be	9						
|>	Sc	45		113.6				
|	Cr	52						
|	Cr	53						
|	Mn	55						
|	Ni	60						
|>	Ge	74		113.5				
|	As	75						
|	Se	77						
|	Se	82						
|	Kr	83						
|	Mo	98						
|	Ag	107						
|	Cd	111						
|	Cd	114						
|>	In	115		110.5				
|	Sb	121						
|	Sb	123						
|>	Lu	175		108.2				
|	Tl	205						
|	Pb	208						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, January 29, 2010 21:44:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 8.217

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	47.064	ug/L	2.259	72502	0.255
| Be	9	47.614	ug/L	2.457	17335	0.061
> Sc	45		ug/L		284510	284510.228
| Cr	52	49.927	ug/L	0.706	185207	0.659
| Cr	53		ug/L		144859	0.039
| Mn	55	51.371	ug/L	1.572	310341	1.087
[Ni	60	50.490	ug/L	2.468	50616	0.177
> Ge	74		ug/L		294699	294699.258
| As	75	47.109	ug/L	1.370	40206	0.135
| Se	77		ug/L		10477	0.002
| Se	82	47.090	ug/L	1.067	3748	0.013
[Kr	83		ug/L		107	0.000
[Mo	98	48.894	ug/L	2.059	120311	0.600
| Ag	107	50.349	ug/L	0.131	212797	1.062
| Cd	111	48.713	ug/L	2.429	54166	0.270
| Cd	114		ug/L		133190	0.665
> In	115		ug/L		200371	200370.523
| Sb	121	50.669	ug/L	0.824	209823	1.046
[Sb	123		ug/L		164008	0.818
> Lu	175		ug/L		422098	422098.110
| Tl	205	47.179	ug/L	2.540	821228	1.938
[Pb	208	51.723	ug/L	1.069	1466282	3.473

Sample ID: QC Std 8

Report Date/Time: Friday, January 29, 2010 21:46:27

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate	Rel. % Difference
[	Li	7	94.127					
|	Be	9	95.228					
>	Sc	45		110.3				
|	Cr	52	99.855					
|	Cr	53						
|	Mn	55	102.742					
|	Ni	60	100.981					
>	Ge	74		112.5				
|	As	75	94.218					
|	Se	77						
|	Se	82	94.180					
|	Kr	83						
|	Mo	98	97.789					
|	Ag	107	100.698					
|	Cd	111	97.426					
|	Cd	114						
>	In	115		110.4				
|	Sb	121	101.338					
|	Sb	123						
>	Lu	175		107.9				
|	Tl	205	94.357					
|	Pb	208	103.445					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Friday, January 29, 2010 21:48:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 9.218

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	0.005	ug/L	30.597	71	0.000
[Be	9	0.002	ug/L	603.713	22	0.000
> [Sc	45		ug/L		289764	289764.135
[Cr	52	0.044	ug/L	204.379	-2123	0.001
[Cr	53		ug/L		109993	-0.091
[Mn	55	-0.028	ug/L	22.199	924	-0.001
[Ni	60	0.000	ug/L	4627.918	266	0.000
> [Ge	74		ug/L		297684	297684.483
[As	75	0.342	ug/L	94.635	637	0.001
[Se	77		ug/L		6719	-0.011
[Se	82	0.158	ug/L	141.054	-3	0.000
[Kr	83		ug/L		90	-0.000
[Mo	98	0.041	ug/L	27.431	178	0.000
[Ag	107	0.001	ug/L	148.949	65	0.000
[Cd	111	0.006	ug/L	159.765	29	0.000
[Cd	114		ug/L		51	0.000
> [In	115		ug/L		197029	197028.615
[Sb	121	0.215	ug/L	8.731	1144	0.004
[Sb	123		ug/L		864	0.003
> [Lu	175		ug/L		415493	415493.479
[Tl	205	1.964	ug/L	9.981	36700	0.081
[Pb	208	0.006	ug/L	15.047	732	0.000

Sample ID: QC Std 9

Report Date/Time: Friday, January 29, 2010 21:50:05

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		112.4			
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Ni	60					
|>	Ge	74		113.6			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		108.5			
|	Sb	121					
|	Sb	123					
|>	Lu	175		106.2			
|	Tl	205					
|	Pb	208					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 9	Tl	205	CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: 245137001

Sample Date/Time: Friday, January 29, 2010 21:59:17

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\245137001.221

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.116	ug/L	24.949	247	0.001
Be	9	-0.008	ug/L	152.538	19	-0.000
> Sc	45		ug/L		292553	292553.331
Cr	52	-0.099	ug/L	88.589	-2694	-0.001
Cr	53		ug/L		290095	0.521
Mn	55	0.378	ug/L	7.213	3446	0.008
Ni	60	-0.102	ug/L	5.655	164	-0.000
> Ge	74		ug/L		303501	303501.433
As	75	0.114	ug/L	831.167	455	0.000
Se	77		ug/L		21041	0.036
Se	82	-0.097	ug/L	36.017	-24	-0.000
Kr	83		ug/L		104	0.000
Mo	98	0.001	ug/L	689.955	80	0.000
Ag	107	-0.005	ug/L	19.480	37	-0.000
Cd	111	0.004	ug/L	135.628	27	0.000
Cd	114		ug/L		8	-0.000
> In	115		ug/L		193180	193180.455
Sb	121	0.004	ug/L	3.530	279	0.000
Sb	123		ug/L		227	0.000
> Lu	175		ug/L		415111	415111.287
Tl	205	0.305	ug/L	5.955	8353	0.013
Pb	208	0.014	ug/L	8.156	951	0.001

Sample ID: 245137001

Report Date/Time: Friday, January 29, 2010 22:00:55

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
|	Be	9						
|>	Sc	45		113.4				
|	Cr	52						
|	Cr	53						
|	Mn	55						
|	Ni	60						
|>	Ge	74		115.8				
|	As	75						
|	Se	77						
|	Se	82						
|	Kr	83						
|	Mo	98						
|	Ag	107						
|	Cd	111						
|	Cd	114						
|>	In	115		106.4				
|	Sb	121						
|	Sb	123						
|>	Lu	175		106.1				
|	Tl	205						
|	Pb	208						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245137002

Sample Date/Time: Friday, January 29, 2010 22:02:54

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\245137002.222

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.115	ug/L	15.968	241	0.001
Be	9	0.008	ug/L	101.295	24	0.000
> Sc	45		ug/L		287087	287087.320
Cr	52	-0.051	ug/L	172.696	-2462	-0.001
Cr	53		ug/L		302728	0.584
Mn	55	1.205	ug/L	3.238	8407	0.025
Ni	60	-0.033	ug/L	41.546	230	-0.000
> Ge	74		ug/L		295850	295850.011
As	75	-1.662	ug/L	68.924	-1060	-0.005
Se	77		ug/L		22694	0.043
Se	82	0.026	ug/L	725.059	-14	0.000
Kr	83		ug/L		98	-0.000
Mo	98	0.012	ug/L	9.308	105	0.000
Ag	107	-0.001	ug/L	238.229	55	-0.000
Cd	111	-0.001	ug/L	501.292	21	-0.000
Cd	114		ug/L		18	-0.000
> In	115		ug/L		189466	189465.929
Sb	121	-0.007	ug/L	29.323	230	-0.000
Sb	123		ug/L		175	-0.000
> Lu	175		ug/L		405708	405708.198
Tl	205	0.238	ug/L	9.201	7057	0.010
Pb	208	0.043	ug/L	3.591	1726	0.003

Sample ID: 245137002

Report Date/Time: Friday, January 29, 2010 22:04:32

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45			111.3		
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Ni	60					
|>	Ge	74			112.9		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115			104.4		
|	Sb	121					
|	Sb	123					
|>	Lu	175			103.7		
|	Tl	205					
|	Pb	208					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 245137003

Sample Date/Time: Friday, January 29, 2010 22:06:32

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080[1]baj

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\245137003.223

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.113	ug/L	14.762	233	0.001
|	Be	9	-0.008	ug/L	231.328	18	-0.000
|>	Sc	45		ug/L		281745	281745.056
|	Cr	52	-0.543	ug/L	45.478	-4238	-0.007
|	Cr	53		ug/L		315521	0.650
|	Mn	55	0.724	ug/L	4.429	5381	0.015
|	Ni	60	-0.093	ug/L	27.076	167	-0.000
|>	Ge	74		ug/L		296647	296646.595
|	As	75	-0.009	ug/L	10796.522	332	-0.000
|	Se	77		ug/L		24248	0.048
|	Se	82	-0.199	ug/L	39.798	-32	-0.000
|	Kr	83		ug/L		105	0.000
|	Mo	98	0.006	ug/L	96.228	90	0.000
|	Ag	107	-0.004	ug/L	24.856	42	-0.000
|	Cd	111	0.002	ug/L	161.581	24	0.000
|	Cd	114		ug/L		20	-0.000
|>	In	115		ug/L		187977	187977.022
|	Sb	121	-0.014	ug/L	18.374	203	-0.000
|	Sb	123		ug/L		161	-0.000
|>	Lu	175		ug/L		401375	401374.792
|	Tl	205	0.193	ug/L	8.383	6246	0.008
|	Pb	208	0.023	ug/L	1.058	1170	0.002

Sample ID: 245137003

Report Date/Time: Friday, January 29, 2010 22:08:10

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate	Rel. % Difference
[	Li	7						
|	Be	9						
|>	Sc	45			109.2			
|	Cr	52						
|	Cr	53						
|	Mn	55						
|	Ni	60						
|>	Ge	74			113.2			
|	As	75						
|	Se	77						
|	Se	82						
|	Kr	83						
|	Mo	98						
|	Ag	107						
|	Cd	111						
|	Cd	114						
|>	In	115			103.5			
|	Sb	121						
|	Sb	123						
|>	Lu	175			102.6			
|	Tl	205						
|	Pb	208						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, January 29, 2010 22:10:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 6.224

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	46.471	ug/L	5.438	71392	0.251
| Be	9	47.189	ug/L	2.720	17142	0.060
[> Sc	45		ug/L		284037	284036.661
| Cr	52	48.315	ug/L	2.055	178782	0.638
| Cr	53		ug/L		155532	0.078
| Mn	55	49.892	ug/L	3.535	300716	1.056
[Ni	60	49.642	ug/L	2.648	49668	0.174
[> Ge	74		ug/L		294345	294345.083
| As	75	44.127	ug/L	0.571	37640	0.127
| Se	77		ug/L		10923	0.004
| Se	82	46.873	ug/L	0.719	3726	0.013
[Kr	83		ug/L		99	0.000
[Mo	98	47.254	ug/L	2.115	115392	0.580
| Ag	107	50.123	ug/L	1.826	210210	1.057
| Cd	111	47.575	ug/L	1.379	52503	0.264
| Cd	114		ug/L		129574	0.651
[> In	115		ug/L		198844	198843.524
| Sb	121	49.944	ug/L	1.209	205247	1.031
[Sb	123		ug/L		159331	0.800
[> Lu	175		ug/L		424951	424950.743
| Tl	205	44.351	ug/L	2.857	777408	1.822
[Pb	208	49.946	ug/L	2.875	1425000	3.353

Sample ID: QC Std 6

Report Date/Time: Friday, January 29, 2010 22:11:47

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7	92.942				
|	Be	9	94.379				
>	Sc	45		110.1			
|	Cr	52	96.629				
|	Cr	53					
|	Mn	55	99.784				
|	Ni	60	99.283				
>	Ge	74		112.3			
|	As	75	88.254				
|	Se	77					
|	Se	82	93.746				
|	Kr	83					
|	Mo	98	94.508				
|	Ag	107	100.245				
|	Cd	111	95.151				
|	Cd	114					
>	In	115		109.5			
|	Sb	121	99.888				
|	Sb	123					
>	Lu	175		108.6			
|	Tl	205	88.703				
|	Pb	208	99.891				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	As	75	CCV is out of limits (+/- 10%)
QC Std 6	Tl	205	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, January 29, 2010 22:13:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100129.mth

Dataset File: C:\elandata\Dataset\100129\QC Std 7.225

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	0.006	ug/L	215.140	72	0.000
| Be	9	0.012	ug/L	27.316	25	0.000
[> Sc	45		ug/L		285537	285536.869
| Cr	52	-0.178	ug/L	15.974	-2929	-0.002
| Cr	53		ug/L		117783	-0.058
| Mn	55	-0.021	ug/L	20.771	956	-0.000
[Ni	60	-0.007	ug/L	36.113	254	-0.000
[> Ge	74		ug/L		297181	297181.310
| As	75	0.180	ug/L	84.345	496	0.001
| Se	77		ug/L		6976	-0.010
| Se	82	0.129	ug/L	43.871	-5	0.000
[Kr	83		ug/L		96	-0.000
[Mo	98	0.038	ug/L	2.325	174	0.000
| Ag	107	0.002	ug/L	192.344	68	0.000
| Cd	111	0.003	ug/L	188.140	27	0.000
| Cd	114		ug/L		58	0.000
[> In	115		ug/L		200010	200010.466
| Sb	121	0.202	ug/L	9.984	1107	0.004
[Sb	123		ug/L		800	0.003
[> Lu	175		ug/L		417480	417479.715
| Tl	205	1.489	ug/L	15.710	28686	0.061
[Pb	208	0.005	ug/L	16.764	704	0.000

Sample ID: QC Std 7

Report Date/Time: Friday, January 29, 2010 22:15:26

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		110.7			
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Ni	60					
|>	Ge	74		113.4			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|●	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115		110.2			
|	Sb	121					
|	Sb	123					
|>	Lu	175		106.7			
|	Tl	205					
|	Pb	208					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 7	Tl	205	CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Saturday, January 30, 2010 12:26:04

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default2\Sample.1766

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	2601.6		2601.637		120.411	4.6
Mg	24.0	36153.1		36153.116		984.288	2.7
Co	58.9	78338.8		78338.816		578.003	0.7
Rh	102.9	152264.0		152263.981		1073.225	0.7
In	114.9	207933.4		207933.371		1113.919	0.5
Pb	208.0	223037.7		223037.663		1297.413	0.6
[> Ba	137.9	216254.3		216254.263		923.542	0.4
[Ba++	69.0	4692.0		0.022		0.000	1.5
[> Ce	139.9	264432.3		264432.295		2590.527	1.0
[CeO	155.9	6203.2		0.023		0.000	1.4
Bkgd	220.0	19.6		19.600		4.263	21.8

Current Optimization File Data

Current Value	Description
0.85	Nebulizer Gas Flow
11.00	Lens Voltage
1450.00	ICP RF Power
-1718.75	Analog Stage Voltage
1200.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	19	10.5	5456.4
Co	59	19	11.5	77184.6
In	115	19	13.5	211338.8

ICPMS #5 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	582	2050	0.672
Be	9.0	8.9	2035	2070	0.652
Mg	24.0	24.0	5675	2070	0.642
Mg	25.0	25.0	5939	2070	0.665
Mg	26.0	26.0	6163	2070	0.676
Co	58.9	58.9	14168	2105	0.646
Rh	102.9	102.9	24874	2165	0.626
In	114.9	114.9	27788	2185	0.630
Ce	139.9	139.9	33872	2200	0.650
Pb	206.0	206.0	49948	2270	0.693
Pb	207.0	207.0	50159	2235	0.671
Pb	208.0	208.0	50463	2260	0.717
U	238.1	238.1	57731	2275	0.737

Report Date/Time: Saturday, January 30, 2010 12:24:44

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ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, January 30, 2010 12:48:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\Blank.006

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7		ug/L		36	
|	Be	9		ug/L		18	
|>	Sc	45		ug/L		842197	
[	Mn	55		ug/L		1402	
[>	Lu	175		ug/L		487236	
[	Tl	205		ug/L		4655	

Sample ID: Blank

Report Date/Time: Saturday, January 30, 2010 12:49:05

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	
Be	9Linear Thru Zero	
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45					
[	Mn	55					
[>	Lu	175					
[Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Saturday, January 30, 2010 12:51:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\Standard 1.007

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	10.000	ug/L	8.856	13805	0.017
|	Be	9	10.000	ug/L	3.483	4627	0.006
|>	Sc	45		ug/L		827131	827130.602
[	Mn	55	10.000	ug/L	1.724	100305	0.120
|>	Lu	175		ug/L		484125	484124.572
[	Ti	205	10.000	ug/L	1.883	257717	0.523

Sample ID: Standard 1

Report Date/Time: Saturday, January 30, 2010 12:51:23

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45					
[	Mn	55					
[>	Lu	175					
[Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, January 30, 2010 12:53:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\Standard 2.008

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	99.992	ug/L	2.425	134794	0.165
|	Be	9	100.006	ug/L	1.053	45755	0.056
|>	Sc	45		ug/L		814950	814949.520
[	Mn	55	99.923	ug/L	1.885	905889	1.110
[>	Lu	175		ug/L		488336	488336.094
[Tl	205	99.778	ug/L	0.625	2089758	4.270

Sample ID: Standard 2

Report Date/Time: Saturday, January 30, 2010 12:53:43

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
|	Be	9						
|>	Sc	45						
[	Mn	55						
|>	Lu	175						
[Tl	205						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, January 30, 2010 12:55:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 1.009

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	53.446	ug/L	3.925	71755	0.088
|	Be	9	52.434	ug/L	2.690	23892	0.029
|>	Sc	45		ug/L		811368	811367.749
[	Mn	55	52.466	ug/L	1.140	474336	0.583
[>	Lu	175		ug/L		482177	482177.325
[	Tl	205	52.082	ug/L	0.879	1079132	2.229

Sample ID: QC Std 1

Report Date/Time: Saturday, January 30, 2010 12:56:03

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7	106.892					
|	Be	9	104.868					
|>	Sc	45			96.3			
[	Mn	55	104.932					
[>	Lu	175			99.0			
[	Tl	205	104.164					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, January 30, 2010 12:58:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 2.010

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.009	ug/L		51.442	48	0.000
|	Be	9	0.012	ug/L		132.142	23	0.000
|>	Sc	45		ug/L			823233	823232.674
[	Mn	55	0.004	ug/L		203.758	1401	0.000
[>	Lu	175		ug/L			477580	477580.041
[	Tl	205	0.427	ug/L		6.064	13283	0.018

Sample ID: QC Std 2

Report Date/Time: Saturday, January 30, 2010 12:58:28

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
|	Be	9						
|>	Sc	45		97.7				
[	Mn	55						
|>	Lu	175		98.0				
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Saturday, January 30, 2010 13:00:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 3.011

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	11.378	ug/L	7.387	15224	0.019
|	Be	9	0.570	ug/L	11.195	275	0.000
|>	Sc	45		ug/L		807617	807617.035
[	Mn	55	5.995	ug/L	1.320	55138	0.067
[>	Lu	175		ug/L		483029	483029.452
[Tl	205	1.276	ug/L	1.838	30983	0.055

Sample ID: QC Std 3

Report Date/Time: Saturday, January 30, 2010 13:00:48

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7	113.785					
|	Be	9	113.989					
|>	Sc	45			95.9			
|	Mn	55	119.903					
|>	Lu	175			99.1			
|	Tl	205	127.581					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Saturday, January 30, 2010 13:02:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 4.012

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.082	ug/L	5.016	133	0.000
|	Be	9	0.116	ug/L	22.028	64	0.000
|>	Sc	45		ug/L		746196	746195.870
[	Mn	55	6.337	ug/L	2.747	53761	0.070
[>	Lu	175		ug/L		447374	447374.211
[	Tl	205	-0.047	ug/L	14.258	3367	-0.002

Sample ID: QC Std 4

Report Date/Time: Saturday, January 30, 2010 13:03:10

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
|	Be	9						
|>	Sc	45			88.6			
[	Mn	55	109.266					
|>	Lu	175			91.8			
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Saturday, January 30, 2010 13:05:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 5.013

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	24.101	ug/L	1.993	29421	0.040
Be	9	21.540	ug/L	1.023	8930	0.012
> Sc	45		ug/L		737440	737440.373
Mn	55	27.205	ug/L	2.400	224092	0.302
> Lu	175		ug/L		443323	443322.505
Tl	205	20.800	ug/L	1.220	398851	0.890

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Li	7	120.503				
Be	9	107.700				
> Sc	45		87.6			
Mn	55	105.445				
> Lu	175		91.0			
Tl	205	104.002				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	Li	7	ICSAB is out of limits

QC Action

QC Action Line: Continue

Sample ID: QC Std 5

Report Date/Time: Saturday, January 30, 2010 13:05:32

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ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, January 30, 2010 13:07:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 6.014

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	54.837	ug/L	5.887	72637	0.091
Be	9	51.854	ug/L	3.315	23328	0.029
Sc	45		ug/L		801520	801519.912
Mn	55	50.771	ug/L	4.056	453138	0.564
Lu	175		ug/L		468299	468298.771
Tl	205	50.067	ug/L	1.951	1007726	2.143

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Li	7	109.674				
Be	9	103.707				
Sc	45		95.2			
Mn	55	101.541				
Lu	175		96.1			
Tl	205	100.134				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Saturday, January 30, 2010 13:07:54

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ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, January 30, 2010 13:09:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 7.015

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.012	ug/L	32.793	51	0.000
Be	9	0.001	ug/L	708.641	18	0.000
Sc	45		ug/L		812187	812186.813
Mn	55	0.006	ug/L	109.452	1402	0.000
Lu	175		ug/L		471727	471727.262
Tl	205	0.535	ug/L	3.749	15306	0.023

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dif	Duplicate Rel. % Difference
Li	7					
Be	9					
Sc	45		96.4			
Mn	55					
Lu	175		96.8			
Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Saturday, January 30, 2010 13:10:18

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ICPMS#5 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Saturday, January 30, 2010 13:12:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 10.016

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	1083.463	ug/L	5.410	1329991	1.792
Be	9	1053.776	ug/L	2.262	439255	0.591
Sc	45		ug/L		742994	742993.539
Mn	55	915.864	ug/L	3.304	7557366	10.177
Lu	175		ug/L		451492	451491.810
Tl	205	482.190	ug/L	2.963	9319925	20.635

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	108.346				
Be	9	105.378				
Sc	45		88.2			
Mn	55	91.586				
Lu	175		92.7			
Tl	205	96.438				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 10

Report Date/Time: Saturday, January 30, 2010 13:12:38

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Saturday, January 30, 2010 13:14:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 11.017

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	53.523	ug/L	4.709	72379	0.089
Be	9	51.024	ug/L	0.619	23418	0.029
Sc	45		ug/L		817189	817188.908
Mn	55	51.115	ug/L	2.547	465364	0.568
Lu	175		ug/L		478270	478269.751
Tl	205	52.118	ug/L	3.037	1070860	2.230

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Li	7	107.047				
Be	9	102.048				
Sc	45		97.0			
Mn	55	102.230				
Lu	175		98.2			
Tl	205	104.236				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 11

Report Date/Time: Saturday, January 30, 2010 13:14:58

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ICPMS#5 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Saturday, January 30, 2010 13:16:58

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 12.018

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.041	ug/L	21.767	90	0.000
|	Be	9	0.014	ug/L	76.389	24	0.000
|>	Sc	45		ug/L		810573	810572.958
[	Mn	55	0.005	ug/L	66.449	1392	0.000
[>	Lu	175		ug/L		477721	477720.771
[	Tl	205	0.737	ug/L	6.117	19624	0.032

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Li	7					
|	Be	9					
|>	Sc	45		96.2			
[	Mn	55					
[>	Lu	175		98.0			
[	Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 12

Report Date/Time: Saturday, January 30, 2010 13:17:22

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ICPMS#5 - Summary Report

Sample ID: 1202021504

Sample Date/Time: Saturday, January 30, 2010 13:19:21

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\1202021504.019

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.056	ug/L	16.390	108	0.000
Be	9	0.011	ug/L	120.948	22	0.000
Sc	45		ug/L		792582	792581.797
Mn	55	0.121	ug/L	6.683	2382	0.001
Lu	175		ug/L		459873	459872.948
Tl	205	0.140	ug/L	6.351	7151	0.006

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
Sc	45		94.1			
Mn	55					
Lu	175		94.4			
Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021504

Report Date/Time: Saturday, January 30, 2010 13:19:43

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021505

Sample Date/Time: Saturday, January 30, 2010 13:21:42

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 94408011ba]

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\1202021505.020

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	56.806	ug/L	4.961	74025	0.094
Be	9	55.990	ug/L	1.595	24764	0.031
Sc	45		ug/L		787597	787597.176
Mn	55	52.243	ug/L	1.223	458472	0.580
Lu	175		ug/L		458076	458075.524
Tl	205	49.498	ug/L	3.209	974401	2.118

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
Sc	45		93.5			
Mn	55					
Lu	175		94.0			
Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021505

Report Date/Time: Saturday, January 30, 2010 13:22:05

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ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, January 30, 2010 13:24:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 8.021

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	51.666	ug/L	5.600	70273	0.085
|	Be	9	50.128	ug/L	3.211	23147	0.028
>	Sc	45		ug/L		822515	822514.676
[	Mn	55	50.468	ug/L	0.903	462597	0.561
>	Lu	175		ug/L		472541	472540.765
[	Tl	205	51.508	ug/L	2.349	1045939	2.204

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7	103.332					
|	Be	9	100.256					
>	Sc	45		97.7				
[	Mn	55	100.937					
>	Lu	175		97.0				
[	Tl	205	103.015					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 8

Report Date/Time: Saturday, January 30, 2010 13:24:27

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ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Saturday, January 30, 2010 13:26:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 9.022

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.013	ug/L	78.437	53	0.000
|	Be	9	0.001	ug/L	1544.512	18	0.000
>	Sc	45		ug/L		826747	826747.209
[	Mn	55	-0.001	ug/L	980.584	1368	-0.000
>	Lu	175		ug/L		479979	479979.367
[	Tl	205	0.826	ug/L	3.901	21545	0.035

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7					
|	Be	9					
>	Sc	45		98.2			
[	Mn	55					
>	Lu	175		98.5			
[Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Saturday, January 30, 2010 13:26:51

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021506

Sample Date/Time: Saturday, January 30, 2010 13:33:36

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\1202021506.025

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.127	ug/L	8.525	198	0.000
|	Be	9	0.008	ug/L	156.862	20	0.000
|>	Sc	45		ug/L		781208	781208.355
[	Mn	55	0.696	ug/L	3.903	7340	0.008
|>	Lu	175		ug/L		455107	455107.344
[	Ti	205	-0.032	ug/L	18.739	3731	-0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Ti	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dilution	Duplicate Rel. % Difference
[	Li	7				
|	Be	9				
|>	Sc	45		92.8		
[	Mn	55				
|>	Lu	175		93.4		
[	Ti	205				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021506

Report Date/Time: Saturday, January 30, 2010 13:33:59

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202021507

Sample Date/Time: Saturday, January 30, 2010 13:35:59

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\1202021507.026

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	58.459	ug/L	2.683	76825	0.097
|	Be	9	57.626	ug/L	2.600	25701	0.032
|>	Sc	45		ug/L		794070	794069.989
[	Mn	55	52.781	ug/L	4.987	466764	0.586
[>	Lu	175		ug/L		457559	457559.369
[	Tl	205	85.536	ug/L	2.512	1678637	3.660

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
|	Be	9						
|>	Sc	45		94.3				
[	Mn	55						
[>	Lu	175		93.9				
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021507

Report Date/Time: Saturday, January 30, 2010 13:36:23

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ICPMS#5 - Summary Report

Sample ID: 1202021508

Sample Date/Time: Saturday, January 30, 2010 13:38:23

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 944080|5|baj

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\1202021508.027

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.034	ug/L	11.177	81	0.000
Be	9	0.009	ug/L	37.659	22	0.000
> Sc	45		ug/L		816427	816426.898
Mn	55	0.158	ug/L	5.834	2793	0.002
> Lu	175		ug/L		477223	477223.065
TI	205	2.889	ug/L	2.187	63567	0.124

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
> Sc	45		96.9			
Mn	55					
> Lu	175		97.9			
TI	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202021508

Report Date/Time: Saturday, January 30, 2010 13:38:48

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ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Saturday, January 30, 2010 13:40:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 8.028

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.800	ug/L	7.939	70857	0.086
Be	9	50.313	ug/L	3.596	23377	0.028
Sc	45		ug/L		827749	827749.245
Mn	55	50.886	ug/L	1.090	469312	0.565
Lu	175		ug/L		481005	481005.366
Tl	205	47.272	ug/L	1.550	977576	2.023

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
Li	7	103.600					
Be	9	100.625					
Sc	45		98.3				
Mn	55	101.772					
Lu	175		98.7				
Tl	205	94.543					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 8

Report Date/Time: Saturday, January 30, 2010 13:41:10

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Saturday, January 30, 2010 13:43:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 9.029

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.009	ug/L	73.938	49	0.000
Be	9	0.005	ug/L	221.483	20	0.000
Sc	45		ug/L		844493	844493.290
Mn	55	0.002	ug/L	351.509	1420	0.000
Lu	175		ug/L		480285	480285.155
Tl	205	1.648	ug/L	5.493	38438	0.071

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7					
Be	9					
Sc	45		100.3			
Mn	55					
Lu	175		98.6			
Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 9	Tl	205	CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

Sample ID: QC Std 9

Report Date/Time: Saturday, January 30, 2010 13:43:34

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ICPMS#5 - Summary Report

Sample ID: 245137001

Sample Date/Time: Saturday, January 30, 2010 13:50:17

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080[1|ba]

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\245137001.032

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.152		ug/L	15.075	230	0.000
|	Be	9	0.014		ug/L	15.354	23	0.000
|>	Sc	45			ug/L		783105	783105.097
[	Mn	55	0.413		ug/L	1.161	4900	0.005
[>	Lu	175			ug/L		450176	450176.153
[	Tl	205	0.131		ug/L	7.680	6834	0.006

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7				
|	Be	9				
|>	Sc	45		93.0		
[	Mn	55				
[>	Lu	175		92.4		
[	Tl	205				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245137001

Report Date/Time: Saturday, January 30, 2010 13:50:41

Page 1

ICPMS#5 - Summary Report

Sample ID: 245137002

Sample Date/Time: Saturday, January 30, 2010 13:52:40

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080|1|baj

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\245137002.033

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.162	ug/L	11.105	243	0.000
|	Be	9	0.007	ug/L	77.605	20	0.000
>	Sc	45		ug/L		782151	782151.328
[	Mn	55	1.235	ug/L	3.855	12036	0.014
>	Lu	175		ug/L		450520	450520.299
[	Tl	205	0.076	ug/L	6.605	5769	0.003

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
|	Be	9						
>	Sc	45		92.9				
[	Mn	55						
>	Lu	175		92.5				
[	Tl	205						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245137002

Report Date/Time: Saturday, January 30, 2010 13:53:04

Page 1

ICPMS#5 - Summary Report

Sample ID: 245137003

Sample Date/Time: Saturday, January 30, 2010 13:55:03

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 944080|1|ba|

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\245137003.034

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.149	ug/L	2.041	227	0.000
|	Be	9	0.011	ug/L	12.550	22	0.000
|>	Sc	45		ug/L		783561	783560.668
[	Mn	55	0.756	ug/L	3.533	7881	0.008
|>	Lu	175		ug/L		447676	447676.103
[	Tl	205	0.044	ug/L	15.689	5115	0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
|	Be	9					
|>	Sc	45		93.0			
[	Mn	55					
|>	Lu	175		91.9			
[	Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 245137003

Report Date/Time: Saturday, January 30, 2010 13:55:27

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ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, January 30, 2010 13:57:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 6.035

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	52.405	ug/L	4.656	71558	0.087
| Be	9	50.563	ug/L	2.798	23440	0.028
> Sc	45		ug/L		825459	825459.340
[Mn	55	50.681	ug/L	0.928	466249	0.563
> Lu	175		ug/L		479847	479847.360
[Tl	205	45.143	ug/L	1.126	931430	1.932

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel.	% Difference
[Li	7	104.809					
| Be	9	101.127					
> Sc	45		98.0				
[Mn	55	101.362					
> Lu	175		98.5				
[Tl	205	90.287					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Saturday, January 30, 2010 13:57:50

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, January 30, 2010 13:59:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100130.mth

Dataset File: C:\elandata\Dataset\100130\QC Std 7.036

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.002	ug/L	131.333	38	0.000
Be	9	-0.000	ug/L	5261.251	18	-0.000
Sc	45		ug/L		831122	831121.849
Mn	55	0.012	ug/L	9.884	1495	0.000
Lu	175		ug/L		484307	484306.765
Tl	205	1.440	ug/L	1.463	34468	0.062

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Li	7	Linear Thru Zero	1.0000
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Li	7					
Be	9					
Sc	45		98.7			
Mn	55					
Lu	175		99.4			
Tl	205					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 7	Tl	205	CCB is out of limits (+/- PQL)

QC Action

QC Action Line: Continue

Sample ID: QC Std 7

Report Date/Time: Saturday, January 30, 2010 14:00:14

Page 1

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Analysis BegunLogged In Analyst: Administrator
Spectrometer Model: FIMS-100, S/N B050-9550Technique: AA FIMS-MHS
Autosampler Model: S10Sample Information File: C:\data-AA\Administrator\Sample Information\020210W1.SIF
Batch ID:
Results Data Set: 020210W1
Results Library: C:\data-AA\Administrator\Results\Results.mdb=====
Sequence No.: 1
Sample ID: Calib Blank
Analyst:
Autosampler Location: 1
Date Collected: 2/2/2010 09:19:39
Data Type: Original-----
Replicate Data: Calib Blank

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.00]	0.0002	-0.0008	0.0002	09:20:40	Yes
2		[0.00]	0.0003	0.0009	0.0003	09:21:14	Yes
Mean:		[0.00]	0.0002				
SD:		0.00	0.0001				
%RSD:		0.00	33.26				

Auto-zero performed.=====
Sequence No.: 2
Sample ID: S0.2
Analyst:
Autosampler Location: 2
Date Collected: 2/2/2010 09:21:33
Data Type: Original-----
Replicate Data: S0.2

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.2]	0.0019	0.0077	0.0021	09:22:34	Yes
2		[0.2]	0.0018	0.0073	0.0021	09:23:09	Yes
Mean:		[0.2]	0.0019				
SD:		0.0	0.0000				
%RSD:		0.0	2.10				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00933 Intercept: 0.00000=====
Sequence No.: 3
Sample ID: S0.5
Analyst:
Autosampler Location: 3
Date Collected: 2/2/2010 09:23:28
Data Type: Original-----
Replicate Data: S0.5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1		[0.5]	0.0051	0.0221	0.0054	09:24:29	Yes
2		[0.5]	0.0051	0.0216	0.0053	09:25:04	Yes
Mean:		[0.5]	0.0051				
SD:		0.0	0.0000				
%RSD:		0.0	0.47				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999152 Slope: 0.01031 Intercept: -0.00007=====
Sequence No.: 4
Sample ID: S2.0
Analyst:
Autosampler Location: 4
Date Collected: 2/2/2010 09:25:23
Data Type: Original-----
Replicate Data: S2.0

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored

1 [2.0] 0.0194 0.0847 0.0196 09:26:25 Yes
 2 [2.0] 0.0192 0.0834 0.0194 09:27:00 Yes
 Mean: [2.0] 0.0193
 SD: 0.0 0.0001
 %RSD: 0.0 0.72
 Standard number 3 applied. [2.0]
 Correlation Coef.: 0.999809 Slope: 0.00962 Intercept: 0.00007

Sequence No.: 5 Autosampler Location: 5
 Sample ID: S5.0 Date Collected: 2/2/2010 09:27:20
 Analyst: Data Type: Original

Replicate Data: S5.0

Repl #	Sample Conc ug/L	Std Conc ug/L	Blank Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[5.0]	[5.0]	0.0479	0.2090	0.0481	09:28:22	Yes
2	[5.0]	[5.0]	0.0475	0.2080	0.0477	09:28:57	Yes
Mean:	[5.0]	[5.0]	0.0477				
SD:	0.0	0.0	0.0003				
%RSD:	0.0	0.0	0.60				

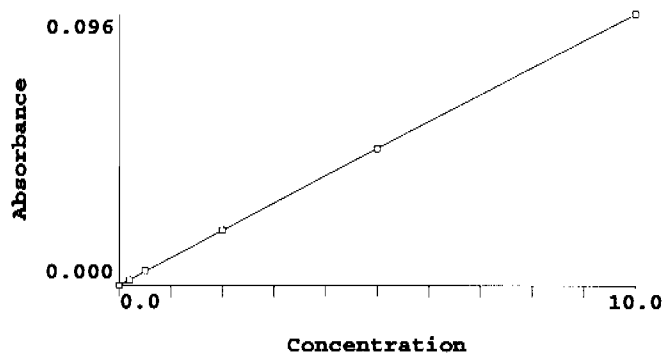
Standard number 4 applied. [5.0]
 Correlation Coef.: 0.999964 Slope: 0.00952 Intercept: 0.00012

Sequence No.: 6 Autosampler Location: 6
 Sample ID: S10.0 Date Collected: 2/2/2010 09:29:17
 Analyst: Data Type: Original

Replicate Data: S10.0

Repl #	Sample Conc ug/L	Std Conc ug/L	Blank Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[10.0]	[10.0]	0.0961	0.4231	0.0963	09:30:17	Yes
2	[10.0]	[10.0]	0.0953	0.4193	0.0955	09:30:52	Yes
Mean:	[10.0]	[10.0]	0.0957				
SD:	0.0	0.0	0.0006				
%RSD:	0.0	0.0	0.58				

Standard number 5 applied. [10.0]
 Correlation Coef.: 0.999990 Slope: 0.00956 Intercept: 0.00008



Calibration data for Hg 253.7

Equation: Linear, Calculated Intercept

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	-0.009	0.00	33.3
S0.2	0.0019	0.2	0.187	0.00	2.1
S0.5	0.0051	0.5	0.528	0.00	0.5
S2.0	0.0193	2.0	2.006	0.00	0.7
S5.0	0.0477	5.0	4.980	0.00	0.6
S10.0	0.0957	10.0	10.007	0.00	0.6

Correlation Coef.: 0.999990 Slope: 0.00956 Intercept: 0.00008

Sequence No.: 7
Sample ID: ICV
Analyst:

Autosampler Location: 9
Date Collected: 2/2/2010 09:31:11
Data Type: Original

Replicate Data: ICV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.097	5.097	0.0488	0.2138	0.0490	09:32:12	Yes
2	5.076	5.076	0.0486	0.2126	0.0488	09:32:47	Yes
Mean:	5.087	5.087	0.0487				
SD:	0.014	0.014	0.0001				
%RSD:	0.284	0.284	0.28				

QC value within limits for Hg 253.7 Recovery = 101.73%
All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICB
Analyst:

Autosampler Location: 10
Date Collected: 2/2/2010 09:33:07
Data Type: Original

Replicate Data: ICB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.003	-0.003	0.0001	0.0006	0.0003	09:34:08	Yes
2	-0.007	-0.007	0.0000	0.0001	0.0002	09:34:43	Yes
Mean:	-0.005	-0.005	0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	68.66	68.66	93.81				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 9
Sample ID: CRDL
Analyst:

Autosampler Location: 11
Date Collected: 2/2/2010 09:35:03
Data Type: Original

Replicate Data: CRDL

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.193	0.193	0.0019	0.0089	0.0021	09:36:05	Yes
2	0.197	0.197	0.0020	0.0086	0.0022	09:36:40	Yes
Mean:	0.195	0.195	0.0020				
SD:	0.003	0.003	0.0000				
%RSD:	1.477	1.477	1.41				

QC value within limits for Hg 253.7 Recovery = 97.70%
All analyte(s) passed QC.

Sequence No.: 10
Sample ID: CCV
Analyst:

Autosampler Location: 7
Date Collected: 2/2/2010 09:37:00
Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.008	5.008	0.0479	0.2091	0.0482	09:38:00	Yes
2	4.940	4.940	0.0473	0.2066	0.0475	09:38:35	Yes
Mean:	4.974	4.974	0.0476				
SD:	0.048	0.048	0.0005				
%RSD:	0.955	0.955	0.95				

QC value within limits for Hg 253.7 Recovery = 99.48%
All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 2/2/2010 09:38:54
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.002	-0.002	0.0001	0.0005	0.0003	09:39:55	Yes
2	0.007	0.007	0.0001	0.0008	0.0004	09:40:30	Yes
Mean:	0.002	0.002	0.0001				
SD:	0.006	0.006	0.0001				
%RSD:	265.4	265.4	56.25				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 12
Sample ID: 1202029503|947435|1
Analyst: JXL

Autosampler Location: 12
Date Collected: 2/2/2010 09:40:49
Data Type: Original

Replicate Data: 1202029503|947435|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.670	0.670	0.0065	0.0282	0.0067	09:41:51	Yes
2	0.679	0.679	0.0066	0.0288	0.0068	09:42:26	Yes
Mean:	0.674	0.674	0.0065				
SD:	0.006	0.006	0.0001				
%RSD:	0.932	0.932	0.92				

=====

Sequence No.: 13
Sample ID: 1202029504|947435|1
Analyst: JXL

Autosampler Location: 13
Date Collected: 2/2/2010 09:42:46
Data Type: Original

Replicate Data: 1202029504|947435|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.027	2.027	0.0194	0.0846	0.0197	09:43:48	Yes
2	2.033	2.033	0.0195	0.0848	0.0197	09:44:23	Yes
Mean:	2.030	2.030	0.0195				
SD:	0.004	0.004	0.0000				
%RSD:	0.210	0.210	0.21				

=====

Sequence No.: 14
Sample ID: 245818013|947435|1
Analyst: JXL

Autosampler Location: 14
Date Collected: 2/2/2010 09:44:43
Data Type: Original

Replicate Data: 245818013|947435|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.023	0.023	0.0003	0.0015	0.0005	09:45:44	Yes
2	0.029	0.029	0.0004	0.0023	0.0006	09:46:19	Yes
Mean:	0.026	0.026	0.0003				
SD:	0.004	0.004	0.0000				
%RSD:	16.27	16.27	12.16				

=====

Sequence No.: 15
Sample ID: 1202029505|947435|1
Analyst: JXL

Autosampler Location: 15
Date Collected: 2/2/2010 09:46:38
Data Type: Original

Replicate Data: 1202029505|947435|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.023	0.023	0.0003	0.0023	0.0005	09:47:38	Yes
2	0.014	0.014	0.0002	0.0014	0.0004	09:48:13	Yes
Mean:	0.018	0.018	0.0003				
SD:	0.006	0.006	0.0001				

%RSD: 34.36 34.36 23.21

Sequence No.: 16

Sample ID: 1202029506|947435|1

Analyst: JXL

Autosampler Location: 16

Date Collected: 2/2/2010 09:48:33

Data Type: Original

Replicate Data: 1202029506|947435|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.040	2.040	0.0196	0.0864	0.0198	09:49:33	Yes
2	2.034	2.034	0.0195	0.0863	0.0197	09:50:08	Yes
Mean:	2.037	2.037	0.0195				
SD:	0.004	0.004	0.0000				
%RSD:	0.212	0.212	0.21				

Sequence No.: 17

Sample ID: 1202029507|947435|5

Analyst: JXL

Autosampler Location: 17

Date Collected: 2/2/2010 09:50:27

Data Type: Original

Replicate Data: 1202029507|947435|5

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.000	0.000	0.0001	0.0011	0.0003	09:51:28	Yes
2	0.004	0.004	0.0001	0.0014	0.0003	09:52:03	Yes
Mean:	0.002	0.002	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	130.9	130.9	24.23				

Sequence No.: 18

Sample ID: 1202024759|945393|1

Analyst: JXL

Autosampler Location: 18

Date Collected: 2/2/2010 09:52:22

Data Type: Original

Replicate Data: 1202024759|945393|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.006	0.006	0.0001	0.0025	0.0004	09:53:22	Yes
2	0.005	0.005	0.0001	0.0027	0.0003	09:53:58	Yes
Mean:	0.006	0.006	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	19.12	19.12	7.55				

Sequence No.: 19

Sample ID: 1202024760|945393|1

Analyst: JXL

Autosampler Location: 19

Date Collected: 2/2/2010 09:54:17

Data Type: Original

Replicate Data: 1202024760|945393|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.069	2.069	0.0199	0.0881	0.0201	09:55:17	Yes
2	2.046	2.046	0.0196	0.0874	0.0198	09:55:52	Yes
Mean:	2.058	2.058	0.0197				
SD:	0.017	0.017	0.0002				
%RSD:	0.821	0.821	0.82				

Sequence No.: 20

Sample ID: 245112001|945393|1

Analyst: JXL

Autosampler Location: 20

Date Collected: 2/2/2010 09:56:11

Data Type: Original

Replicate Data: 245112001|945393|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored

1	0.016	0.016	0.0002	0.0029	0.0005	09:57:12	Yes
2	0.009	0.009	0.0002	0.0016	0.0004	09:57:47	Yes
Mean:	0.013	0.013	0.0002				
SD:	0.005	0.005	0.0000				
%RSD:	40.71	40.71	24.22				

Sequence No.: 21

Autosampler Location: 21

Sample ID: 245120001|945393|1

Date Collected: 2/2/2010 09:58:07

Analyst: JXL

Data Type: Original

Replicate Data: 245120001|945393|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.003	-0.003	0.0001	0.0007	0.0003	09:59:08	Yes
2	-0.007	-0.007	0.0000	0.0006	0.0002	09:59:43	Yes
Mean:	-0.005	-0.005	0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	52.20	52.20	63.23				

Sequence No.: 22

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/2/2010 10:00:02

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.091	5.091	0.0487	0.2123	0.0489	10:01:03	Yes
2	5.067	5.067	0.0485	0.2114	0.0487	10:01:38	Yes
Mean:	5.079	5.079	0.0486				
SD:	0.017	0.017	0.0002				
%RSD:	0.330	0.330	0.33				

QC value within limits for Hg 253.7 Recovery = 101.58%

All analyte(s) passed QC.

Sequence No.: 23

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/2/2010 10:01:57

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.004	-0.004	0.0000	0.0010	0.0003	10:02:58	Yes
2	0.001	0.001	0.0001	0.0017	0.0003	10:03:33	Yes
Mean:	-0.002	-0.002	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	227.0	227.0	49.67				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 24

Autosampler Location: 22

Sample ID: 1202024761|945393|1

Date Collected: 2/2/2010 10:03:52

Analyst: JXL

Data Type: Original

Replicate Data: 1202024761|945393|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.006	-0.006	0.0000	0.0005	0.0002	10:04:53	Yes
2	0.001	0.001	0.0001	0.0014	0.0003	10:05:29	Yes
Mean:	-0.003	-0.003	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	170.7	170.7	72.51				

Sequence No.: 25
Sample ID: 1202024762|945393|1
Analyst: JXL

Autosampler Location: 23
Date Collected: 2/2/2010 10:05:48
Data Type: Original

Replicate Data: 1202024762|945393|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.124	2.124	0.0204	0.0903	0.0206	10:06:50	Yes
2	2.121	2.121	0.0204	0.0905	0.0206	10:07:25	Yes
Mean:	2.122	2.122	0.0204				
SD:	0.002	0.002	0.0000				
%RSD:	0.093	0.093	0.09				

Sequence No.: 26
Sample ID: 1202024763|945393|5
Analyst: JXL

Autosampler Location: 24
Date Collected: 2/2/2010 10:07:45
Data Type: Original

Replicate Data: 1202024763|945393|5

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.006	0.006	0.0001	0.0019	0.0004	10:08:46	Yes
2	0.004	0.004	0.0001	0.0026	0.0003	10:09:21	Yes
Mean:	0.005	0.005	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	19.48	19.48	7.04				

Sequence No.: 27
Sample ID: 245135001|945393|1
Analyst: JXL

Autosampler Location: 25
Date Collected: 2/2/2010 10:09:41
Data Type: Original

Replicate Data: 245135001|945393|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.011	0.011	0.0002	0.0028	0.0004	10:10:43	Yes
2	0.011	0.011	0.0002	0.0011	0.0004	10:11:18	Yes
Mean:	0.011	0.011	0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	0.597	0.597	0.34				

Sequence No.: 28
Sample ID: 245135002|945393|1
Analyst: JXL

Autosampler Location: 26
Date Collected: 2/2/2010 10:11:38
Data Type: Original

Replicate Data: 245135002|945393|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.006	0.006	0.0001	0.0012	0.0004	10:12:39	Yes
2	0.008	0.008	0.0002	0.0013	0.0004	10:13:14	Yes
Mean:	0.007	0.007	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	18.28	18.28	8.00				

Sequence No.: 29
Sample ID: 245137001|945393|1
Analyst: JXL

Autosampler Location: 27
Date Collected: 2/2/2010 10:13:34
Data Type: Original

Replicate Data: 245137001|945393|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.007	-0.007	0.0000	0.0008	0.0002	10:14:34	Yes
2	-0.007	-0.007	0.0000	0.0006	0.0002	10:15:09	Yes
Mean:	-0.007	-0.007	0.0000				

SD: 0.000 0.000 0.0000
%RSD: 0.085 0.085 0.27

Sequence No.: 30

Sample ID: 245137002|945393|1

Analyst: JXL

Autosampler Location: 28

Date Collected: 2/2/2010 10:15:28

Data Type: Original

Replicate Data: 245137002|945393|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.001	-0.001	0.0001	0.0010	0.0003	10:16:29	Yes
2	-0.005	-0.005	0.0000	0.0008	0.0003	10:17:04	Yes
Mean:	-0.003	-0.003	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	98.83	98.83	43.90				

Sequence No.: 31

Sample ID: 245137003|945393|1

Analyst: JXL

Autosampler Location: 29

Date Collected: 2/2/2010 10:17:23

Data Type: Original

Replicate Data: 245137003|945393|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.002	0.002	0.0001	0.0015	0.0003	10:18:24	Yes
2	-0.002	-0.002	0.0001	0.0012	0.0003	10:18:59	Yes
Mean:	0.000	0.000	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	740.3	740.3	34.51				

Sequence No.: 32

Sample ID: 1202024791|945409|1

Analyst: JXL

Autosampler Location: 30

Date Collected: 2/2/2010 10:19:18

Data Type: Original

Replicate Data: 1202024791|945409|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.001	0.001	0.0001	0.0018	0.0003	10:20:18	Yes
2	-0.003	-0.003	0.0001	0.0010	0.0003	10:20:53	Yes
Mean:	-0.001	-0.001	0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	215.7	215.7	39.25				

Sequence No.: 33

Sample ID: 1202024792|945409|1

Analyst: JXL

Autosampler Location: 31

Date Collected: 2/2/2010 10:21:12

Data Type: Original

Replicate Data: 1202024792|945409|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.125	2.125	0.0204	0.0905	0.0206	10:22:13	Yes
2	2.099	2.099	0.0201	0.0891	0.0204	10:22:48	Yes
Mean:	2.112	2.112	0.0203				
SD:	0.018	0.018	0.0002				
%RSD:	0.853	0.853	0.85				

Sequence No.: 34

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/2/2010 10:23:07

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	---------	---------	------	------	------	------

#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.100	5.100	0.0488	0.2149	0.0490	10:24:08	Yes
2	5.068	5.068	0.0485	0.2132	0.0487	10:24:43	Yes
Mean:	5.084	5.084	0.0487				
SD:	0.023	0.023	0.0002				
%RSD:	0.443	0.443	0.44				

QC value within limits for Hg 253.7 Recovery = 101.67%
All analyte(s) passed QC.

Sequence No.: 35

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/2/2010 10:25:02

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.003	-0.003	0.0001	0.0012	0.0003	10:26:02	Yes
2	-0.001	-0.001	0.0001	0.0015	0.0003	10:26:37	Yes
Mean:	-0.002	-0.002	0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	69.10	69.10	22.70				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 36

Autosampler Location: 32

Sample ID: 245242001|945409|1

Date Collected: 2/2/2010 10:26:57

Analyst: JXL

Data Type: Original

Replicate Data: 245242001|945409|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.004	0.004	0.0001	0.0017	0.0003	10:27:58	Yes
2	0.001	0.001	0.0001	0.0017	0.0003	10:28:33	Yes
Mean:	0.003	0.003	0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	72.32	72.32	17.39				

Sequence No.: 37

Autosampler Location: 33

Sample ID: 245242002|945409|1

Date Collected: 2/2/2010 10:28:53

Analyst: JXL

Data Type: Original

Replicate Data: 245242002|945409|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.002	-0.002	0.0001	0.0012	0.0003	10:29:54	Yes
2	0.009	0.009	0.0002	0.0022	0.0004	10:30:28	Yes
Mean:	0.004	0.004	0.0001				
SD:	0.007	0.007	0.0001				
%RSD:	209.4	209.4	60.98				

Sequence No.: 38

Autosampler Location: 34

Sample ID: 245250001|945409|1

Date Collected: 2/2/2010 10:30:48

Analyst: JXL

Data Type: Original

Replicate Data: 245250001|945409|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.006	0.006	0.0001	0.0018	0.0004	10:31:49	Yes
2	0.000	0.000	0.0001	0.0015	0.0003	10:32:24	Yes
Mean:	0.003	0.003	0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	154.5	154.5	37.40				

Miscellaneous

Prep LogBook

Analyst: BXA1 Verified by: _____

Batch: 944076

Lab SOP: GL-MA-E-006 REV# 9

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202021499		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
LCS	1202021500		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SAMPLE	245112001		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SAMPLE	245120001		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
DUP	1202021501	245120001	SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
MS	1202021502	245120001	SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SDILT	1202021503	245120001	SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SAMPLE	245135001		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SAMPLE	245135002		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SAMPLE	245137001		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SAMPLE	245137002		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL
SAMPLE	245137003		SW846 3005A	25-JAN-2010 22:38	<2	50 mL	50 mL	1	.25	mL

Comments

Reagent/Solvent Lot ID	Amount	Description
1244970	2.5 mL	HYDROCHLORIC ACID
1234886	1 mL	Nitric Acid CONC.

Prep LogBook

Analyst: BXA1 Verified by: _____

Batch: 944079

Lab SOP: GL-MA-E-006 REV# 9

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202021504		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
LCS	1202021505		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
LCS	1202021879		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SAMPLE	245112001		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SAMPLE	245120001		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
DUP	1202021506	245120001	SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
MS	1202021507	245120001	SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SDILT	1202021508	245120001	SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
MS	1202021878	245120001	SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SAMPLE	245135001		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SAMPLE	245135002		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SAMPLE	245137001		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SAMPLE	245137002		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL
SAMPLE	245137003		SW846 3005A	25-JAN-2010 22:51	<2	50 mL	50 mL	1	.5	mL

Comments

Reagent/Solvent Lot ID	Amount	Description
1244970	2.5 mL	HYDROCHLORIC ACID
1234886	1 mL	Nitric Acid CONC.

Prep LogBook

Analyst: TXB3 Verified by: _____

Batch: 945391

Lab SOP: GL-MA-E-010 REV# 23

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202024759		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
LCS	1202024760		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1	.2	mL
SAMPLE	245112001		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
SAMPLE	245120001		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
DUP	1202024761	245120001	SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
MS	1202024762	245120001	SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
SDILT	1202024763	245120001	SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
SAMPLE	245135001		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
SAMPLE	245135002		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
SAMPLE	245137001		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
SAMPLE	245137002		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		
SAMPLE	245137003		SW846 7470A Prep	01-FEB-2010 11:50	<2	20 mL	20 mL	1		

Comments Digestion Start Date: 01-FEB-10 11:50
Digestion End Date: 01-FEB-10 13:50

Reagent/Solvent Lot ID	Amount	Description
1176183	1 mL	Sulfuric Acid, Concentrated
1257474-1	.5 mL	NITRIC ACID
1261483-C	1.5 mL	5% Potassium Persulfate
1255535-C	3 mL	5% KMnO4 solution
1255532-C	1 mL	Hg reducing agent
WHG100201-06	500 uL	Mercury Working 2nd Source 5.0/ICV
WHG100201-01a	20 uL	Mercury Working 1st Source CAL 0.2/CRA
WHG100201-02	50 uL	Mercury Working 1st Source CAL 0.5
WHG100201-05	1 mL	Mercury Working 1st Source CAL 10.0
WHG100201-03	200 uL	Mercury Working 1st Source CAL 2.0
WHG100201-04	500 uL	Mercury Working 1st Source CAL 5.0/CCV

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: UI090610-03 **Opened:** 10-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 10-JUN-09 **Lot Number :** 1016338
Type: Source Material **Expires:** 10-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

Serial ID: UI090701-09 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #1 **Received:** 01-JUL-09 **Catalog Number :** 160044-09-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016477
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: O2SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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: 02sj
Description: TRACE ICP Stock PQL Standard
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Sulfur	50 mg/L	Thallium	10 mg/L
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: UI090828-42 **Opened:** 16-SEP-09 **Amount :** 500 mL
Name: TRACE ICP Na-1000SOUR **Received:** 27-AUG-09 **Catalog Number :** 060011-02-03
Type: Source Material **Expires:** 16-SEP-10 **Lot Number :** 1017098
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: 02SI
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI090925-40 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX38-500N
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909129
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1A 5%HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Arsenic	100 mg/L
Barium	100 mg/L	Boron	100 mg/L
Cadmium	100 mg/L	Calcium	1000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	1000 mg/L
Lead	100 mg/L	Phosphorous	500 mg/L
Potassium	500 mg/L	Selenium	500 mg/L
Sodium	500 mg/L	Strontium	100 mg/L

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: UI090930-A **Opened:** 30-SEP-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 28-SEP-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 30-SEP-10
Employee: Francena Armstrong **Verified:** 21-NOV-08
Supplier: O2Si
Description: ICP-MS DOE liquid Spike Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	4 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Silicon	200 mg/L
Sodium	200 mg/L	Strontium	5 mg/L
Thallium	10 mg/L	Thorium	5 mg/L
Total Uranium	5 mg/L	Uranium	5 mg/L
Uranium-235	.0364 mg/L	Uranium-238	4.96 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Serial ID: UI090930-B **Opened:** 30-SEP-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 28-SEP-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 30-SEP-10
Employee: Francena Armstrong **Verified:** 21-NOV-08
Supplier: O2Si
Description: ICP-MS DOE Liquid Spike Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silver	5 mg/L	Tin	5 mg/L
Titanium	5 mg/L	Zirconium	5 mg/L

Standard Logbook

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3%H2O(NH4)2SiF6
Supplier: o2si
Description: Silicon 1000mg/L +/-0.3%in H2O(NH4)2SiF6
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L
Tin	200 mg/L	Titanium	200 mg/L

Standard Logbook

Serial ID: UI091102-42 **Opened:** 17-NOV-09 **Amount :** 200 mL
Name: SILICON **Received:** 02-NOV-09 **Catalog Number :** HP100050-4F
Type: Source Material **Expires:** 17-NOV-10 **Lot Number :** 0921924
Employee: Helen Camello **Solvent :** H2O/tr HF
Supplier: ENVIRNMENTAL EXPRESS
Description: SILICON 1000mg/L H2O/tr HF
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091212-60 **Opened:** 12-DEC-09 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 12-DEC-09 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 12-DEC-10 **Lot Number :** 1018064
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: UI091212-61 **Opened:** 12-DEC-09 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 12-DEC-09 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 12-DEC-10 **Lot Number :** 1018064
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	25 mg/L	Molybdenum	100 mg/L
Silver	25 mg/L	Tin	100 mg/L
Tungsten	100 mg/L	Zirconium	50 mg/L

Standard Logbook

Serial ID: UI091216-01 **Opened:** 16-DEC-09 **Lot Number :** 1018095
Name: METALSPIKE-1 **Received:** 16-DEC-09
Type: Source Material **Expires:** 16-DEC-10
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix I
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Serial ID: UI091216-06 **Opened:** 16-DEC-09 **Lot Number :** 1018096
Name: METALSPIKE-2 **Received:** 16-DEC-09
Type: Source Material **Expires:** 16-DEC-10
Employee: Francena Armstrong
Supplier: OS2I
Description: Metals Spike Mix II
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL
Molybdenum	100 ug/mL	Nickel	100 ug/mL
Selenium	100 ug/mL	Silica	2141 ug/mL
Silicon	1000 ug/mL	Sulfur	1000 ug/mL
Thallium	100 ug/mL	Tin	100 ug/mL
Titanium	100 ug/mL	Uranium	100 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Serial ID: UI091217-06 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master A **Received:** 17-DEC-09 **Catalog Number :** 160055-01
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018209
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: Q2SI
Description: ICPMS ICV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Serial ID: UI091217-07 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-DEC-09 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018210
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: UI091217-08 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-DEC-09 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018211
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln C - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: UI091217-12 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 17-DEC-09 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018212
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master B

Standard Logbook

Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	2 mg/L	Barium	2 mg/L
Beryllium	2 mg/L	Boron	2 mg/L
Cadmium	2 mg/L	Chromium	2 mg/L
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

Serial ID: UI091217-13 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master C **Received:** 17-DEC-09 **Catalog Number :** 160033-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1016926
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Silver	2 mg/L
Tin	2 mg/L	Tungsten	2 mg/L
Zirconium	2 mg/L		

Serial ID: UI100114-48 **Opened:** 22-JAN-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 18-JAN-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 22-JAN-11 **Lot Number :** 1018466
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: UI100114-49.7 **Opened:** 29-JAN-10 **Amount :** 100 ml
Name: Trace ICP ICSAB **Received:** 18-JAN-10 **Catalog Number :** 160066-04
Type: Source Material **Expires:** 30-JAN-10 **Lot Number :** 1018458
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Inteferent Check Standard AB
Comments: None

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Antimony	500 ug/L
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: UI100126-11 **Opened:** 26-JAN-10 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 26-JAN-10 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 26-JAN-11 **Lot Number :** 1018321
Employee: Elizabeth Janssen **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: UI100128-40 **Opened:** 28-JAN-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 28-JAN-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 28-JAN-11 **Lot Number :** 1018409
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION A
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10000 ug/L	Arsenic	10000 ug/L
Barium	15000 ug/L	Beryllium	3000 ug/L
Boron	5000 ug/L	Cadmium	10000 ug/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Chromium	25000 ug/L	Cobalt	10000 ug/L
Copper	20000 ug/L	Lead	25000 ug/L
Manganese	10000 ug/L	Molybdenum	10000 ug/L
Nickel	10000 ug/L	Phosphorous	15000 ug/L
Potassium	300000 ug/L	Selenium	10000 ug/L
Silica	107000 ug/L	Silicon	50000 ug/L
Silver	1000 ug/L	Strontium	10000 ug/L
Sulfur	50000 ug/L	Thallium	10000 ug/L
Tin	10000 ug/L	Titanium	10000 ug/L
Vanadium	10000 ug/L	Zinc	15000 ug/L

Serial ID: UI100128-41 **Opened:** 28-JAN-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 28-JAN-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 28-JAN-11 **Lot Number :** 1018409
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: UI1246651-A **Opened:** 23-DEC-09 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 23-DEC-09 **Lot Number :** 1018097
Type: Source Material **Expires:** 23-DEC-10
Employee: Bryan Davis
Supplier: O2si
Description: ICP-MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution A).
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	5 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Bismuth	5 mg/L	Boron	10 mg/L
Cadmium	5 mg/L	Calcium	200 mg/L
Cesium	5 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	5 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorous	200 mg/L	Potassium	200 mg/L
Selenium	5 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	5 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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: UI1246654-B **Opened:** 23-DEC-09 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 23-DEC-09 **Lot Number :** 1017644
Type: Source Material **Expires:** 23-DEC-10
Employee: Bryan Davis
Supplier: O2si
Description: MS SPIKE FOR ALL CLIENTS EXCEPT DOE CLIENTS (Solution B).
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	5 mg/L	Molybdenum	5 mg/L
Silver	5 mg/L	Tin	5 mg/L
Titanium	5 mg/L	Zirconium	5 mg/L

Serial ID: UMS090303-01 **Opened:** 03-MAR-09 **Amount :** 250 mL
Name: ICPMSCalSPIKEB **Received:** 03-MAR-09 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 28-FEB-10 **Lot Number :** 14-81JB
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: UMS090303-02 **Opened:** 03-MAR-09 **Catalog Number :** ZGEL-102-250
Name: ICPMSCalSPIKEA **Received:** 03-MAR-09 **Lot Number :** 14-83JB
Type: Source Material **Expires:** 28-FEB-10
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

Standard Logbook

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: UMS090303-03 **Opened:** 03-MAR-09 **Amount :** 250 ml
Name: ICPMSCaSPIKEC **Received:** 03-MAR-09 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 28-FEB-10 **Lot Number :** 15-199JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

Serial ID: IHG100201-01 **Opened:** 01-FEB-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 01-FEB-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 02-FEB-10 **Solvent :** 1mL HNO3 + TypeI H2O
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 1st Source 200 ug/L
Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: IHG100201-02 **Opened:** 01-FEB-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Intermediate **Expires:** 02-FEB-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 2nd Source 200 ug/L
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167641-02	Mercury	999.7 mg/L	.05 mL	250 mL	200 ug/L

Standard Logbook

Serial ID: WHG100201-01a **Opened:** 01-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL0.2CRA **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 08-FEB-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working 1st Source CAL 0.2/CRA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100201-01	Mercury	200 ug/L	20 uL	20 mL	.2 ug/L

Serial ID: WHG100201-02 **Opened:** 01-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL0.5 **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 08-FEB-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working 1st Source CAL 0.5
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100201-01	Mercury	200 ug/L	50 uL	20 mL	.5 ug/L

Serial ID: WHG100201-03 **Opened:** 01-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL2.0 **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 08-FEB-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL 2.0
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100201-01	Mercury	200 ug/L	200 uL	20 mL	2 ug/L

Serial ID: WHG100201-04 **Opened:** 01-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL5.0CCV **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 08-FEB-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL 5.0/CCV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100201-01	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Standard Logbook

Serial ID: WHG100201-05 **Opened:** 01-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL10.0 **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 08-FEB-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL 10.0
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100201-01	Mercury	200 ug/L	1 mL	20 mL	10 ug/L

Serial ID: WHG100201-06 **Opened:** 01-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORK5.0ICV **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 08-FEB-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working 2nd Source 5.0/ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100201-02	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100201-13 **Opened:** 01-FEB-10 **Pipet Id :** Hg1289245
Name: MHGLIQLCSMSSPIKE **Received:** 01-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 08-FEB-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury working intermediate standard for LCS/MS
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: W1100129-43 **Opened:** 29-JAN-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 1099667
Type: Working **Expires:** 30-JAN-10 **Solvent :** 3%HCL and 1%HNO3 -1259494
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090828-42	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI091102-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: WI100129-46 **Opened:** 29-JAN-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 1099667
Type: Working **Expires:** 30-JAN-10 **Solvent :** 3%HCL AND 1%HNO3-1259494
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Sulfur	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-41	Thallium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Tin	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Titanium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Uranium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Vanadium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Zinc	100 mg/L	2.5 mL	500 mL	500 ug/L
UI091102-42	Silica	2139 mg/L	2.5 mL	500 mL	10695 ug/L
UI091102-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L

Serial ID: WI100129-47

Name: PQL Working Standard

Type: Working

Employee: Helen Camello

Supplier: 02si

Description: PQL Working Standard

Comments: None

Opened: 29-JAN-10

Balance Id : 216

Received: 30-JUN-09

Pipet Id : 1099667

Expires: 30-JAN-10

Solvent : 3%HCL & 1%HNO3-1259494

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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Selenium	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Silicon	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Silver	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sodium	150 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Strontium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sulfur	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Thallium	10 mg/L	2 mL	1000 mL	20 ug/L
UI090701-40	Tin	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Titanium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Uranium	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Vanadium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Zinc	5 mg/L	2 mL	1000 mL	10 ug/L

Serial ID: WMS100129-04 **Opened:** 29-JAN-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 29-JAN-10 **Balance Id :** 4025216
Type: Working **Expires:** 30-JAN-10 **Pipet Id :** 3541598
Employee: Elizabeth Janssen **Solvent :** 2%HNO3/1%HCl-1259290
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100129-04A **Opened:** 29-JAN-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 29-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 30-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100129-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100129-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100129-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100129-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100129-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100129-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100129-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100129-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100129-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100129-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100129-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100129-05 **Opened:** 29-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 29-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 30-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100129-06

Opened: 29-JAN-10

Balance Id : 40245216

Name: ICPMS CRDL

Received: 29-JAN-10

Pipet Id : 3820544

Type: Working

Expires: 30-JAN-10

Solvent : 2%HNO3/1%HCl - 1259290

Employee: Elizabeth Janssen

Supplier: GEL

Description: ICPMS CRDL

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100129-07 **Opened:** 29-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 29-JAN-10 **Lot Number :** 1010773
Type: Working **Expires:** 30-JAN-10 **Pipet Id :** 3541598
Employee: Elizabeth Janssen **Solvent :** 2%HNO3/1%HCl - 1259290
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100129-08 **Opened:** 29-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 29-JAN-10 **Pipet Id :** 1758088
Type: Working **Expires:** 30-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100129-70 **Opened:** 29-JAN-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 29-JAN-10 **Pipet Id :** 1758088
Type: Working **Expires:** 30-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI091212-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: WMS100130-04 **Opened:** 30-JAN-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 30-JAN-10 **Balance Id :** 4025216
Type: Working **Expires:** 31-JAN-10 **Pipet Id :** 3541598
Employee: Elizabeth Janssen **Solvent :** 2%HNO3/1%HCl-1259290
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100130-04A **Opened:** 30-JAN-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 30-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 31-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100130-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100130-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100130-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100130-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100130-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100130-05 **Opened:** 30-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 30-JAN-10 **Pipet Id :** 3541598
Type: Working **Expires:** 31-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100130-06 **Opened:** 30-JAN-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 30-JAN-10 **Pipet Id :** 3820544
Type: Working **Expires:** 31-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100130-07 **Opened:** 30-JAN-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 30-JAN-10 **Lot Number :** 1010773
Type: Working **Expires:** 31-JAN-10 **Pipet Id :** 3541598
Employee: Elizabeth Janssen **Solvent :** 2%HNO3/1%HCl - 1259290
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100130-08
Name: ICPMS ICSAB
Type: Working
Employee: Elizabeth Janssen
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Opened: 30-JAN-10 **Balance Id :** 40245216
Received: 30-JAN-10 **Pipet Id :** 1758088
Expires: 31-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100130-70 **Opened:** 30-JAN-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 30-JAN-10 **Pipet Id :** 1758088
Type: Working **Expires:** 31-JAN-10 **Solvent :** 2%HNO3/1%HCl - 1259290
Employee: Elizabeth Janssen
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091212-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI091212-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI091212-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI091212-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI091212-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI091212-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI091212-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI091212-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: WMS100205-04 **Opened:** 05-FEB-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 05-FEB-10 **Balance Id :** 4025216
Type: Working **Expires:** 06-FEB-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1262930
Supplier: GEL

Standard Logbook

Description: ICPMS Calibration Standard (100 ppb)

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090610-03	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS090303-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS090303-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS090303-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100205-04A **Opened:** 05-FEB-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 05-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 06-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1262930
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100205-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100205-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100205-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100205-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100205-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100205-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100205-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100205-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100205-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100205-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100205-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100205-05 **Opened:** 05-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 05-FEB-10 **Pipet Id :** 3541598
Type: Working **Expires:** 06-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1262930
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100205-06 **Opened:** 05-FEB-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 05-FEB-10 **Pipet Id :** 3820544
Type: Working **Expires:** 06-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1262930
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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

Serial ID: WMS100205-07

Opened: 05-FEB-10

Balance Id : 40245216

Name: ICPMS ICSA

Received: 05-FEB-10

Lot Number : 1010773

Type: Working

Expires: 06-FEB-10

Pipet Id : 3541598

Employee: Paul Boyd

Solvent : 2%HNO3/1%HCl - 1262930

Supplier: GEL

Description: ICPMS ICSA

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100205-08 **Opened:** 05-FEB-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 05-FEB-10 **Pipet Id :** 1758088
Type: Working **Expires:** 06-FEB-10 **Solvent :** 2%HNO3/1%HCl - 1262930
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100126-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100126-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100126-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100126-11	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: 1176183 **Opened:** 24-AUG-09 **Lot Number :** H20001
Name: B-H2SO4-MER **Received:** 24-AUG-09
Type: Reagent/Solvent **Expires:** 24-AUG-10
Employee: Tara Griffin
Supplier: Mallinckrodt
Description: Sulfuric Acid, Concentrated
Comments: None

Serial ID: 1215906 **Opened:** 06-NOV-09 **Lot Number :** H44465
Name: B-K2S2O8S-MER **Received:** 06-NOV-09
Type: Reagent/Solvent **Expires:** 06-NOV-10
Employee: Tara Griffin
Supplier: J.T BAKER
Description: Potassium Persulfate Concentrate.
Comments: None

Serial ID: 1228372-A **Opened:** 12-NOV-09 **Lot Number :** 49215936
Name: B-NH2OH.HCI-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: 1234886 **Opened:** 27-NOV-09 **Lot Number :** H20053 L
Name: I-HNO3 **Received:** 27-NOV-09
Type: Reagent/Solvent **Expires:** 27-NOV-10
Employee: Bryan Davis
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1244970 **Opened:** 18-DEC-09 **Lot Number :** H41032
Name: I-HCL **Received:** 18-DEC-09 **Preservative_Id :** 5 none
Type: Reagent/Solvent **Expires:** 18-DEC-10
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1252836 **Opened:** 08-JAN-10 **Lot Number :** H20053 L
Name: I-HNO3 **Received:** 08-JAN-10
Type: Reagent/Solvent **Expires:** 08-JAN-11
Employee: Francena Armstrong
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1252838 **Opened:** 08-JAN-10 **Lot Number :** H41032
Name: I-HCL **Received:** 08-JAN-10 **Preservative_Id :** 5 none
Type: Reagent/Solvent **Expires:** 08-JAN-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1255532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Standard Logbook

Serial ID: 1255535-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: 1257474-1 **Opened:** 20-JAN-10 **Instrument Id :** MERCURY
Name: B-HNO3-MER **Received:** 20-JAN-10 **Lot Number :** H20053
Type: Reagent/Solvent **Expires:** 20-JAN-11
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID
Comments: None

Serial ID: 1259290 **Opened:** 25-JAN-10 **Solvent :** Type I Water
Name: B-2%HNO3/1%HCl-ICPMS **Received:** 25-JAN-10
Type: Reagent/Solvent **Expires:** 01-FEB-10
Employee: Elizabeth Janssen
Supplier: GEL
Description: 2%HNO3/1%HCl Solution (Type I Water)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1252836	I-HNO3	69.0-70.0	180 mL	9 l	N/A
1252838	I-HCL	36.5-38.0	90 mL	9 l	N/A

Serial ID: 1259494 **Opened:** 25-JAN-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 28-DEC-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 31-JAN-10 **Solvent :** 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL
Description: 3%HCL+1%HNO3 RINSE SOLN.
Comments: None

Serial ID: 1261483-C **Opened:** 28-JAN-10 **Balance Id :** BAL-002
Name: B-K2S2O8-MER **Received:** 28-JAN-10
Type: Reagent/Solvent **Expires:** 28-JUL-10
Employee: Tara Griffin
Supplier: GEL

Standard Logbook

Description: 5% Potassium Persulfate

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1215906	B-K2S2O8S-MER	N/A	50 g	1000 mL	N/A

Serial ID: 1262930 Opened: 01-FEB-10 Solvent : Type I Water

Name: B-2%HNO3/1%HCl-ICPMS Received: 01-FEB-10

Type: Reagent/Solvent Expires: 08-FEB-10

Employee: Elizabeth Janssen

Supplier: GEL

Description: 2%HNO3/1%HCl Solution (Type I Water)

Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1252836	I-HNO3	69.0-70.0	180 mL	9 l	N/A
1252838	I-HCL	36.5-38.0	90 mL	9 l	N/A

General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1303**

Method/Analysis Information

Product:	Cyanide, Total		
Analytical Batch:	944392	Method:	SW9012A Cyanide and Total
Prep Batch :	944391	Method:	SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
245136001	RE15-10-7194
245136002	RE15-10-7186
245136003	RE15-10-7191
245136004	RE15-10-7195
245136005	RE15-10-7196
245136006	RE15-10-7197
245136007	RE15-10-7193
245136008	RE15-10-7189
245136009	RE15-10-7187
245136010	RE15-10-7188
245136011	RE15-10-7190
245136012	RE15-10-7192
245136013	RE15-10-7219
1202022248	Method Blank (MB)
1202022249	245136001(RE15-10-7194) Sample Duplicate (DUP)
1202022250	245136002(RE15-10-7186) Sample Duplicate (DUP)
1202022251	245136001(RE15-10-7194) Matrix Spike (MS)
1202022252	245136002(RE15-10-7186) Matrix Spike (MS)
1202022253	245136001(RE15-10-7194) Matrix Spike Duplicate (MSD)
1202022254	245136002(RE15-10-7186) Matrix Spike Duplicate (MSD)
1202022255	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: 245136001 (RE15-10-7194) and 245136002 (RE15-10-7186).

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. 1202022249 (RE15-10-7194), 1202022250 (RE15-10-7186), 245136001 (RE15-10-7194) and 245136002 (RE15-10-7186).

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: 1202022255 (LCS).

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information**Data Exception (DER) Documentation**

A DER was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

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

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

Certification Statement

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

Review Validation:

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

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

Reviewer:  Date: 10Feb10

Sample Data Summary

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Certificate of Analysis Report for

LANL010 Los Alamos National Laboratory (72733-001-09)

Client SDG: 10-1303 GEL Work Order: 245136

The Qualifiers in this report are defined as follows:

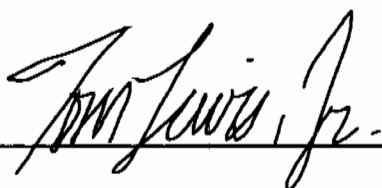
- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

A handwritten signature in black ink, reading "Tom Lewis, Jr.", is written over a horizontal line.

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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: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7194
Sample ID: 245136001
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 20.7%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	84.0	309	ug/kg	1	AXC2	01/27/10	1331	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	SW846 9012A		

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Project: LANL ER Project

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7186
Sample ID: 245136002
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 18.6%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	74.6	274	ug/kg	1	AXC2	01/27/10	1338	944392	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: LANL ER Project

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7191
Sample ID: 245136003
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 14.6%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	78.0	287	ug/kg	1	AXC2	01/27/10	1341	944392	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: LANL ER Project

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7195
Sample ID: 245136004
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 10.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	67.5	248	ug/kg	1	AXC2	01/27/10	1342	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7196
Sample ID: 245136005
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 23.7%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	132	89.1	328	ug/kg	1	AXC2	01/27/10	1343	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	SW846 9012A		

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Project: **LANL ER Project**

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7197
Sample ID: 245136006
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 14.4%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	72.3	266	ug/kg	1	AXC2	01/27/10	1344	944392	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7193
Sample ID: 245136007
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 19%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	76.3	281	ug/kg	1	AXC2	01/27/10	1349	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: LANL ER Project

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7189
Sample ID: 245136008
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 9.23%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	74.9	275	ug/kg	1	AXC2	01/27/10	1350	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: **LANL ER Project**

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7187
Sample ID: 245136009
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 9.34%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	73.5	270	ug/kg	1	AXC2	01/27/10	1350	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Certificate of Analysis

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7188
Sample ID: 245136010
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 12.4%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	J	130	74.7	274	ug/kg	1	AXC2	01/27/10	1351	944392	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7190
Sample ID: 245136011
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 28.3%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	J	233	81.8	301	ug/kg	1	AXC2	01/27/10	1352	944392	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7192
Sample ID: 245136012
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 34.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	104	381	ug/kg	1	AXC2	01/27/10	1353	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Certificate of Analysis

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

Report Date: February 9, 2010

Client SDG: 10-1303

Client Sample ID: RE15-10-7219
Sample ID: 245136013
Matrix: R
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client
Moisture: 23.2%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	86.8	319	ug/kg	1	AXC2	01/27/10	1354	944392	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prcp	SW846 9010B Prep	AXS5	01/26/10	1606	944391

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Quality Control Summary

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QC Summary

Report Date: February 9, 2010

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

Contact: Ms. Joylene Valdez

Workorder: 245136

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Flow Injection Analysis											
Batch	944392										
QC1202022249	245136001	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A		AXC2	01/27/10	13:32
QC1202022250	245136002	DUP									
Cyanide, Total		U	ND	J	153	ug/kg	200	(+/-265)		01/27/10	13:39
QC1202022255	LCS										
Cyanide, Total		67900			74000	ug/kg	109	(46%-145%)		01/27/10	13:30
QC1202022248	MB										
Cyanide, Total				U	250	ug/kg				01/27/10	13:29
QC1202022251	245136001	MS									
Cyanide, Total		6180	U	ND	5950	ug/kg	96	(50%-130%)		01/27/10	13:36
QC1202022252	245136002	MS									
Cyanide, Total		5900	U	ND	6080	ug/kg	103	(50%-130%)		01/27/10	13:40
QC1202022253	245136001	MSD									
Cyanide, Total		5730	U	ND	5560	ug/kg	6.72	96.8	(0%-30%)	01/27/10	13:37
QC1202022254	245136002	MSD									
Cyanide, Total		5690	U	ND	5520	ug/kg	9.67	96.8	(0%-30%)	01/27/10	13:41

Notes:

RER is calculated at the 95% confidence level (2-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based

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Workorder: 245136

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[illegible]

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: 09-FEB-2010 14:32

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1303

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	27-JAN-2010 13:18:50	OM_1-27-2010_13-08-21	149	150	99	(90%-110%)	Yes
CCV	27-JAN-2010 13:33:07	OM_1-27-2010_13-08-21	100	100	100	(90%-110%)	Yes
CCV	27-JAN-2010 13:45:31	OM_1-27-2010_13-08-21	100	100	100	(90%-110%)	Yes
CCV	27-JAN-2010 13:57:54	OM_1-27-2010_13-08-21	101	100	101	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	27-JAN-2010 13:20:39	OM_1-27-2010_13-08-21	-0.897	5	Yes
CCB	27-JAN-2010 13:34:57	OM_1-27-2010_13-08-21	-1.05	5	Yes
CCB	27-JAN-2010 13:47:22	OM_1-27-2010_13-08-21	-0.915	5	Yes
CCB	27-JAN-2010 13:59:44	OM_1-27-2010_13-08-21	-1.25	5	Yes

Cyanide, Total

Prep LogBook

Analyst: AXSS Verified by: _____

Batch: 944391

Lab SOP: GL-GC-E-067 REV# 13

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202022248		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.5 g	25 mL	50	25	g
LCS	1202022255		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.25 g	25 mL	100		mL
SAMPLE	245136001		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.51 g	25 mL	49.01961		mL
DUP	1202022249	245136001	SW846 9010B Prep	26-JAN-2010 16:06	>12	0.51 g	25 mL	49.01961		mL
MS	1202022251	245136001	SW846 9010B Prep	26-JAN-2010 16:06	>12	0.51 g	25 mL	49.01961		mL
MSD	1202022253	245136001	SW846 9010B Prep	26-JAN-2010 16:06	>12	0.55 g	25 mL	45.45455		mL
SAMPLE	245136002		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.56 g	25 mL	44.64286		mL
DUP	1202022250	245136002	SW846 9010B Prep	26-JAN-2010 16:06	>12	0.58 g	25 mL	43.10345		mL
MS	1202022252	245136002	SW846 9010B Prep	26-JAN-2010 16:06	>12	0.52 g	25 mL	48.07692		mL
MSD	1202022254	245136002	SW846 9010B Prep	26-JAN-2010 16:06	>12	0.54 g	25 mL	46.2963		mL
SAMPLE	245136003		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.51 g	25 mL	49.01961		mL
SAMPLE	245136004		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.56 g	25 mL	44.64286		mL
SAMPLE	245136005		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.5 g	25 mL	50		mL
SAMPLE	245136006		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.55 g	25 mL	45.45455		mL
SAMPLE	245136007		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.55 g	25 mL	45.45455		mL
SAMPLE	245136008		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.5 g	25 mL	50		mL
SAMPLE	245136009		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.51 g	25 mL	49.01961		mL
SAMPLE	245136010		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.52 g	25 mL	48.07692		mL
SAMPLE	245136011		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.58 g	25 mL	43.10345		mL
SAMPLE	245136012		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.5 g	25 mL	50		mL
SAMPLE	245136013		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.51 g	25 mL	49.01961		mL
SAMPLE	245147001		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.52 g	25 mL	48.07692		mL
SAMPLE	245147002		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.58 g	25 mL	43.10345		mL
SAMPLE	245147003		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.52 g	25 mL	48.07692		mL
SAMPLE	245147004		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.52 g	25 mL	48.07692		mL
SAMPLE	245147005		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.5 g	25 mL	50		mL
SAMPLE	245147006		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.5 g	25 mL	50		mL
SAMPLE	245147007		SW846 9010B Prep	26-JAN-2010 16:06	>12	0.53 g	25 mL	47.16981		mL

Prep Data Logbook Version 1:1

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Page#

Prep LogBook

Reagent/Solvent Lot ID	Amount	Description	Comments
091211-C	25 mL	0.25N Sodium Hydroxide Solution	
WCN100126-07	.0375 mL	150 ppb CN Distilled ICV Standard	
1176724-C	1.25 mL	0.8N H3NO3S	
1260189-C	2.5 mL	50% H2SO4 CN Prep	
1176778-C	1 mL	51% MgCl2 Soln	
1238142-C	1.25 mL	Bismuth Nitrate Solution	

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	1/27/2010 13:11:41	OM_1-27-2010_13-08-21
150 ppb		1	axc2	1/27/2010 13:12:33	OM_1-27-2010_13-08-21
100 ppb		1	axc2	1/27/2010 13:13:25	OM_1-27-2010_13-08-21
50 ppb		1	axc2	1/27/2010 13:14:18	OM_1-27-2010_13-08-21
10 ppb		1	axc2	1/27/2010 13:15:11	OM_1-27-2010_13-08-21
CRDL 5.0 ppb		1	axc2	1/27/2010 13:16:05	OM_1-27-2010_13-08-21
ICAL-00		1	axc2	1/27/2010 13:16:59	OM_1-27-2010_13-08-21
ICV		1	axc2	1/27/2010 13:18:50	OM_1-27-2010_13-08-21
ICB		1	axc2	1/27/2010 13:20:39	OM_1-27-2010_13-08-21
CRDL		1	axc2	1/27/2010 13:22:29	OM_1-27-2010_13-08-21
1202024544	945298	1	axc2	1/27/2010 13:24:19	OM_1-27-2010_13-08-21
1202024545	945298	25	axc2	1/27/2010 13:25:12	OM_1-27-2010_13-08-21
244519001	945298	1	axc2	1/27/2010 13:26:05	OM_1-27-2010_13-08-21
1202015101	945298	1	axc2	1/27/2010 13:26:58	OM_1-27-2010_13-08-21
1202015103	945298	1	axc2	1/27/2010 13:27:51	OM_1-27-2010_13-08-21
1202015105	945298	1	axc2	1/27/2010 13:28:44	OM_1-27-2010_13-08-21
1202022248	944392	1	axc2	1/27/2010 13:29:37	OM_1-27-2010_13-08-21
1202022255	944392	25	axc2	1/27/2010 13:30:29	OM_1-27-2010_13-08-21
245136001	944392	1	axc2	1/27/2010 13:31:22	OM_1-27-2010_13-08-21
1202022249	944392	1	axc2	1/27/2010 13:32:14	OM_1-27-2010_13-08-21
CCV		1	axc2	1/27/2010 13:33:07	OM_1-27-2010_13-08-21
CCB		1	axc2	1/27/2010 13:34:57	OM_1-27-2010_13-08-21
1202022251	944392	1	axc2	1/27/2010 13:36:45	OM_1-27-2010_13-08-21
1202022253	944392	1	axc2	1/27/2010 13:37:36	OM_1-27-2010_13-08-21
245136002	944392	1	axc2	1/27/2010 13:38:28	OM_1-27-2010_13-08-21
1202022250	944392	1	axc2	1/27/2010 13:39:20	OM_1-27-2010_13-08-21
1202022252	944392	1	axc2	1/27/2010 13:40:11	OM_1-27-2010_13-08-21
1202022254	944392	1	axc2	1/27/2010 13:41:05	OM_1-27-2010_13-08-21
245136003	944392	1	axc2	1/27/2010 13:41:59	OM_1-27-2010_13-08-21
245136004	944392	1	axc2	1/27/2010 13:42:53	OM_1-27-2010_13-08-21
245136005	944392	1	axc2	1/27/2010 13:43:46	OM_1-27-2010_13-08-21
245136006	944392	1	axc2	1/27/2010 13:44:39	OM_1-27-2010_13-08-21
CCV		1	axc2	1/27/2010 13:45:31	OM_1-27-2010_13-08-21
CCB		1	axc2	1/27/2010 13:47:22	OM_1-27-2010_13-08-21
245136007	944392	1	axc2	1/27/2010 13:49:10	OM_1-27-2010_13-08-21
245136008	944392	1	axc2	1/27/2010 13:50:04	OM_1-27-2010_13-08-21
245136009	944392	1	axc2	1/27/2010 13:50:56	OM_1-27-2010_13-08-21
245136010	944392	1	axc2	1/27/2010 13:51:49	OM_1-27-2010_13-08-21
245136011	944392	1	axc2	1/27/2010 13:52:41	OM_1-27-2010_13-08-21
245136012	944392	1	axc2	1/27/2010 13:53:34	OM_1-27-2010_13-08-21
245136013	944392	1	axc2	1/27/2010 13:54:26	OM_1-27-2010_13-08-21
245147001	944392	1	axc2	1/27/2010 13:55:18	OM_1-27-2010_13-08-21
245147002	944392	1	axc2	1/27/2010 13:56:10	OM_1-27-2010_13-08-21
245147003	944392	1	axc2	1/27/2010 13:57:02	OM_1-27-2010_13-08-21
CCV		1	axc2	1/27/2010 13:57:54	OM_1-27-2010_13-08-21
CCB		1	axc2	1/27/2010 13:59:44	OM_1-27-2010_13-08-21
245147004	944392	1	axc2	1/27/2010 14:01:35	OM_1-27-2010_13-08-21
245147005	944392	1	axc2	1/27/2010 14:02:28	OM_1-27-2010_13-08-21
245147006	944392	1	axc2	1/27/2010 14:03:22	OM_1-27-2010_13-08-21
245147007	944392	1	axc2	1/27/2010 14:04:15	OM_1-27-2010_13-08-21
1202017584	942470	1	axc2	1/27/2010 14:05:08	OM_1-27-2010_13-08-21
1202017588	942470	25	axc2	1/27/2010 14:06:01	OM_1-27-2010_13-08-21
244899017	942470	1	axc2	1/27/2010 14:06:54	OM_1-27-2010_13-08-21
1202017585	942470	1	axc2	1/27/2010 14:07:47	OM_1-27-2010_13-08-21
1202017586	942470	1	axc2	1/27/2010 14:08:40	OM_1-27-2010_13-08-21
1202017587	942470	1	axc2	1/27/2010 14:09:32	OM_1-27-2010_13-08-21
CCV		1	axc2	1/27/2010 14:10:25	OM_1-27-2010_13-08-21
CCB		1	axc2	1/27/2010 14:12:15	OM_1-27-2010_13-08-21

244899018*	942470	1	axc2	1/27/2010	14:14:04	OM_1-27-2010_13-08-21
244899019*	942470	1	axc2	1/27/2010	14:14:56	OM_1-27-2010_13-08-21
244899020*	942470	1	axc2	1/27/2010	14:15:48	OM_1-27-2010_13-08-21
244902001*	942470	1	axc2	1/27/2010	14:16:40	OM_1-27-2010_13-08-21
1202022245*	942470	1	axc2	1/27/2010	14:17:32	OM_1-27-2010_13-08-21
1202022246*	942470	1	axc2	1/27/2010	14:18:27	OM_1-27-2010_13-08-21
1202022247*	942470	1	axc2	1/27/2010	14:19:20	OM_1-27-2010_13-08-21
245092001*	942470	1	axc2	1/27/2010	14:20:14	OM_1-27-2010_13-08-21
245092002*	942470	1	axc2	1/27/2010	14:21:08	OM_1-27-2010_13-08-21
245092003*	942470	1	axc2	1/27/2010	14:22:01	OM_1-27-2010_13-08-21
CCV		1	axc2	1/27/2010	14:22:54	OM_1-27-2010_13-08-21

Original Run Filename: OM_1-27-2010_13-08-21.OMN created 1/27/2010 13:08:21
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_1-27-2010_13-08-21.OMN last modified 1/27/2010 14:24:00
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-102 EPA 420.4, 9066
 LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1		Detection Time	ADF	MDF	Description
			TCYANIDE	Area				
			Conc. (ug/L)	(Vs)				
WCN100127-01	1	S1	200	8.60	1/27/2010@13:11:41			200 ppb
WCN100127-02	1	S2	150	6.55	1/27/2010@13:12:33			150 ppb
WCN100127-03	1	S3	100	4.12	1/27/2010@13:13:25			100 ppb
WCN100127-04	1	S4	50.0	2.28	1/27/2010@13:14:18			50 ppb
WCN100127-05	1	S5	10.0	0.546	1/27/2010@13:15:11			10 ppb
WCN100127-06	1	S6	5.00	0.337	1/27/2010@13:16:05			CRDL 5.0 ppb
WCN100127-08	1	S7	0.00	0.0388	1/27/2010@13:16:59			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99952 > 0.99500					
Message			Pass					
Action			Continue					
WCN100127-07	1	S8	149	6.41	1/27/2010@13:18:50			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			-0.7 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-0.7 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100127-08	1	S7	-0.897	0.0423	1/27/2010@13:20:39			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-0.897 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-0.897 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100127-06	1	S6	6.11	0.340	1/27/2010@13:22:29			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			6.11 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			6.11 > 2.50					
Message			Pass					
Action			None					
1202024544|945298|MB	1	1	-1.48	0.0176	1/27/2010@13:24:19			
1202024545|LCS	1	2	29.9	1.35	1/27/2010@13:25:12		25.00	
244519001	1	3	1.67	0.152	1/27/2010@13:26:05			
1202015101|DUP	1	4	0.824	0.115	1/27/2010@13:26:58			
1202015103|MS	1	5	97.7	4.24	1/27/2010@13:27:51			
1202015105|MSD	1	6	99.0	4.29	1/27/2010@13:28:44			
1202022248|944392|MB	1	7	-1.05	0.0358	1/27/2010@13:29:37			
1202022255|LCS	1	8	29.6	1.34	1/27/2010@13:30:29		25.00	
245136001	1	9	0.313	0.0938	1/27/2010@13:31:22			
1202022249|DUP	1	10	0.563	0.104	1/27/2010@13:32:14			
WCN100127-03	1	S3	100	4.33	1/27/2010@13:33:07			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-0.0 < 10.0					
Message			CCV Passed					

		Action	Continue				
DQM Test: < - Percent Relative Difference							
		Result:	-0.0 < 10.0				
		Message	CCV Passed				
		Action	Continue				
WCN100127-08	1	S7	-1.05	0.0360	1/27/2010@13:34:57		CCB
		Known Conc:	0.00				
DQM Test: > + Concentration Limit							
		Result:	-1.05 < 5.00				
		Message	CCB Passed				
		Action	Continue				
DQM Test: < - Concentration Limit							
		Result:	-1.05 > -5.00				
		Message	CCB Passed				
		Action	Continue				
1202022251	MS	1	11	96.3	4.18	1/27/2010@13:36:45	
1202022253	MSD	1	12	97.1	4.21	1/27/2010@13:37:36	
245136002		1	13	0.263	0.0916	1/27/2010@13:38:28	
1202022250	DUP	1	14	2.89	0.203	1/27/2010@13:39:20	
1202022252	MS	1	15	103	4.45	1/27/2010@13:40:11	
1202022254	MSD	1	16	97.1	4.21	1/27/2010@13:41:05	
245136003		1	17	0.547	0.104	1/27/2010@13:41:59	
245136004		1	18	-0.464	0.0607	1/27/2010@13:42:53	
245136005		1	19	2.02	0.166	1/27/2010@13:43:46	
245136006		1	20	-5.99	-0.174	1/27/2010@13:44:39	
WCN100127-03		1	S3	100	4.34	1/27/2010@13:45:31	CCV
		Known Conc:	100				
DQM Test: > + Percent Relative Difference							
		Result:	0.2 < 10.0				
		Message	CCV Passed				
		Action	Continue				
DQM Test: < - Percent Relative Difference							
		Result:	0.2 < 10.0				
		Message	CCV Passed				
		Action	Continue				
WCN100127-08	1	S7	-0.915	0.0415	1/27/2010@13:47:22		CCB
		Known Conc:	0.00				
DQM Test: > + Concentration Limit							
		Result:	-0.915 < 5.00				
		Message	CCB Passed				
		Action	Continue				
DQM Test: < - Concentration Limit							
		Result:	-0.915 > -5.00				
		Message	CCB Passed				
		Action	Continue				
245136007		1	21	0.467	0.100	1/27/2010@13:49:10	
245136008		1	22	0.214	0.0896	1/27/2010@13:50:04	
245136009		1	23	0.582	0.105	1/27/2010@13:50:56	
245136010		1	24	2.36	0.181	1/27/2010@13:51:49	
245136011		1	25	3.87	0.245	1/27/2010@13:52:41	
245136012		1	26	-0.0592	0.0779	1/27/2010@13:53:34	
245136013		1	27	1.06	0.125	1/27/2010@13:54:26	
245147001		1	28	-1.01	0.0373	1/27/2010@13:55:18	
245147002		1	29	-0.604	0.0547	1/27/2010@13:56:10	
245147003		1	30	1.14	0.129	1/27/2010@13:57:02	
WCN100127-03		1	S3	101	4.39	1/27/2010@13:57:54	CCV
		Known Conc:	100				
DQM Test: > + Percent Relative Difference							
		Result:	1.3 < 10.0				
		Message	CCV Passed				
		Action	Continue				
DQM Test: < - Percent Relative Difference							
		Result:	1.3 < 10.0				
		Message	CCV Passed				
		Action	Continue				
WCN100127-08	1	S7	-1.25	0.0272	1/27/2010@13:59:44		CCB
		Known Conc:	0.00				
DQM Test: > + Concentration Limit							

Result:			-1.25 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.25 > -5.00				
Message			CCB Passed				
Action			Continue				
245147004	1	31	-1.23	0.0281	1/27/2010@14:01:35		
245147005	1	32	-0.965	0.0394	1/27/2010@14:02:28		
245147006	1	33	-0.840	0.0447	1/27/2010@14:03:22		
245147007	1	34	5.23	0.303	1/27/2010@14:04:15		
1202017584|942470|MB	1	35	-1.39	0.0212	1/27/2010@14:05:08		
1202017588|LCS	1	36	25.7	1.17	1/27/2010@14:06:01	25.00	
244899017	1	37	-0.845	0.0445	1/27/2010@14:06:54		
1202017585|DUP	1	38	-0.905	0.0419	1/27/2010@14:07:47		
1202017586|MS	1	39	98.0	4.25	1/27/2010@14:08:40		
1202017587|MSD	1	40	102	4.43	1/27/2010@14:09:32		
WCN100127-03	1	S3	102	4.42	1/27/2010@14:10:25		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			2.0 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			2.0 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100127-08	1	S7	-1.23	0.0280	1/27/2010@14:12:15		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.23 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.23 > -5.00				
Message			CCB Passed				
Action			Continue				
244899018	1	41	-0.517	0.0585	1/27/2010@14:14:04		
244899019	1	42	-1.20	0.0294	1/27/2010@14:14:56		
244899020	1	43	0.180	0.0881	1/27/2010@14:15:48		
244902001	1	44	-0.638	0.0533	1/27/2010@14:16:40		
1202022245|DUP	1	45	72.6	3.17	1/27/2010@14:17:32		
1202022246|MS	1	46	95.2	4.13	1/27/2010@14:18:27		
1202022247|MSD	1	47	95.4	4.14	1/27/2010@14:19:20		
245092001	1	48	-0.996	0.0381	1/27/2010@14:20:14		
245092002	1	49	-1.21	0.0292	1/27/2010@14:21:08		
245092003	1	50	155	6.67	1/27/2010@14:22:01		
WCN100127-03	1	S3	-321	-13.6	1/27/2010@14:22:54		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			-420.9 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			-420.9 < 10.0				
Message			CCV Failed				
Action			Stop Run				

Analyte Properties Table for OM_1-27-2010_13-08-21.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

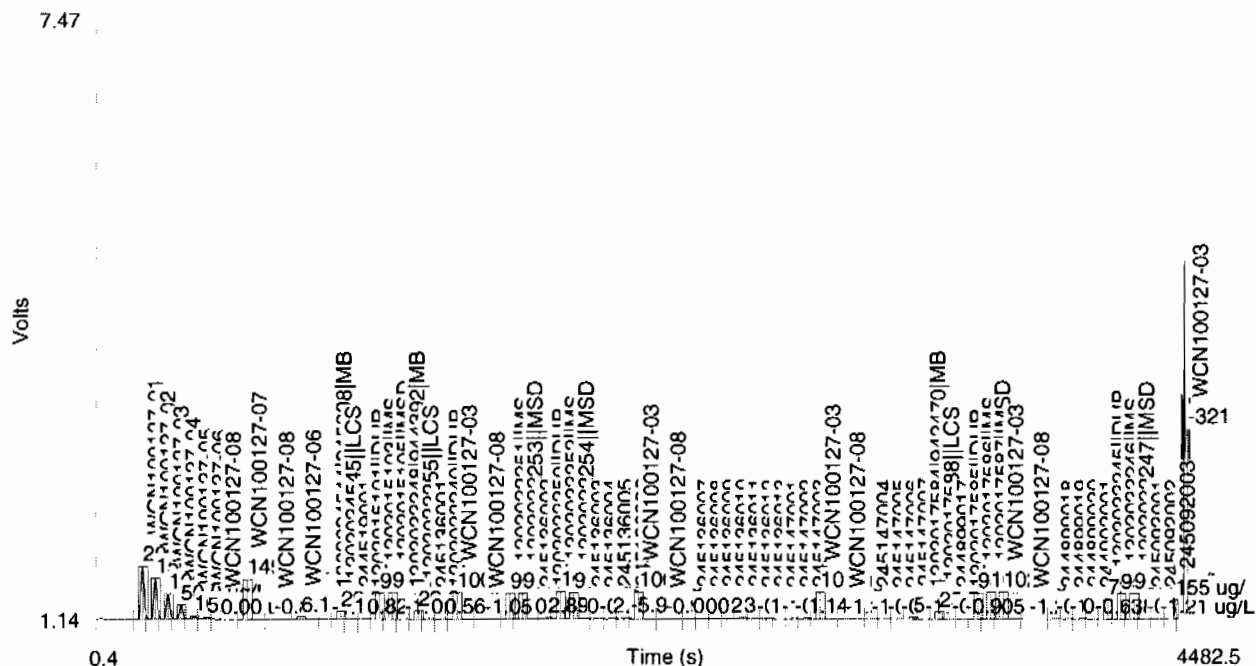
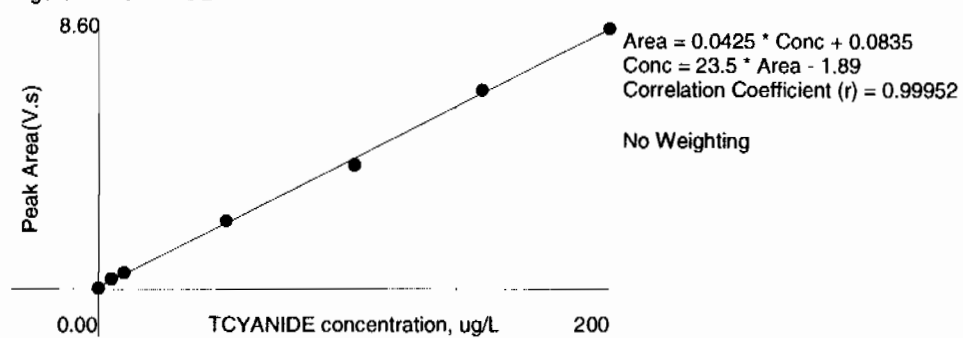


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	8.60	0.564	-0.2	1/27/2010	13:12:44
2	150	1	6.55	0.434	-1.5	1/27/2010	13:13:36
3	100	1	4.12	0.273	4.9	1/27/2010	13:14:28
4	50.0	1	2.28	0.151	-3.2	1/27/2010	13:15:21
5	10.0	1	0.546	0.0351	-7.3	1/27/2010	13:16:14
6	5.00	1	0.337	0.0212	-13.7	1/27/2010	13:17:08
7	0.00	1	0.0388	0.00202		1/27/2010	13:18:02

Figure 1: TCYANIDE



General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1303-1**

Method/Analysis Information

Product:	Cyanide, Total		
Analytical Batch:	944394	Method:	SW9012A Cyanide and Total
Prep Batch :	944393	Method:	SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
245137001	RE15-10-7228
245137002	RE15-10-7224
245137003	RE15-10-7227
1202022256	Method Blank (MB)
1202022257	245137001(RE15-10-7228) Sample Duplicate (DUP)
1202022259	245137001(RE15-10-7228) Matrix Spike (MS)
1202022261	245137001(RE15-10-7228) Matrix Spike Duplicate (MSD)
1202022263	Laboratory Control Sample (LCS)

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

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-095 REV# 12.

Preparation/Analytical Method Verification

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

Calibration Information

The Flow Injection analysis was performed on a Lachat QuickChem 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 sample was selected for QC analysis: 245137001 (RE15-10-7228).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recovery for this sample set was within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recovery for this sample set was within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD 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 Preservation/Integrity

All the samples from this sample group met the preservation and integrity requirements of the method.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-analysis

The following samples were re-analyzed due to CCB failure: 1202022256 (MB) and 1202022263 (LCS).

Miscellaneous Information

Data Exception (DER) Documentation

A DER was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

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

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

Certification Statement

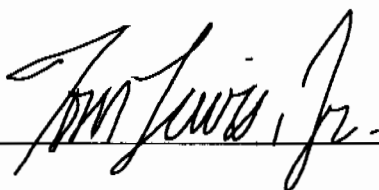
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

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

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

Reviewer:



Date:

10Feb10

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: 10-1303-1 GEL Work Order: 245137

The Qualifiers in this report are defined as follows:

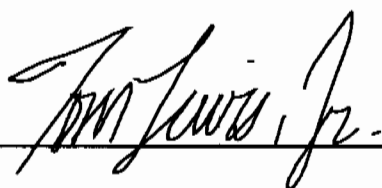
- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

A handwritten signature in black ink, appearing to read "Tom Lewis, Jr.", is written over a horizontal line.

GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: February 8, 2010

Client SDG: 10-1303-1

Client Sample ID: RE15-10-7224
Sample ID: 245137002
Matrix: W
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	01/26/10	1035	944394	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1441	944393

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: February 8, 2010

Client SDG: 10-1303-1

Client Sample ID: RE15-10-7227
Sample ID: 245137003
Matrix: W
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	01/26/10	1036	944394	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1441	944393

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

GEL LABORATORIES LLC

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Certificate of Analysis

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

Report Date: February 8, 2010

Client SDG: 10-1303-1

Client Sample ID: RE15-10-7228
Sample ID: 245137001
Matrix: W
Collect Date: 13-JAN-10 12:00
Receive Date: 20-JAN-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	01/26/10	1032	944394	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	01/25/10	1441	944393

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Quality Control Summary

GEL LABORATORIES LLC

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QC Summary

Report Date: February 8, 2010

Page 1 of 2

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

Contact: Ms. Joylene Valdez

Workorder: 245137

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Flow Injection Analysis											
Batch	944394										
QC1202022257	245137001	DUP									
Cyanide, Total		U	ND	U	ND	ug/L	N/A		AXC2	01/26/10	10:33
QC1202022263	LCS										
Cyanide, Total	50.0				49.7	ug/L	99.4	(90%-110%)		01/26/10	10:17
QC1202022256	MB										
Cyanide, Total			U		5.00	ug/L				01/26/10	10:11
QC1202022259	245137001	MS									
Cyanide, Total	100	U	ND		105	ug/L	105	(60%-127%)		01/26/10	10:34
QC1202022261	245137001	MSD									
Cyanide, Total	100	U	ND		102	ug/L	2.90	102	(0%-20%)	01/26/10	10:34

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.
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M Matrix Related Failure
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.

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QC Summary

Workorder: 245137

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	QC Samples were not spiked with this compound										
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
d	5-day BOD--The 2:1 depletion requirement was not met for this sample										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Instrument QC Data Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 08-FEB-2010 17:44

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1303-1

Flow Injection Analysis

Method: SW846 9012A

Concentration Units:ug/L

Instrument: Lachat QuickChem FIA+ 8000 Series

Parmname: Cyanide, Total

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	26-JAN-2010 09:01:56	OM_1-26-2010_08-51-25	147	150	98	(90%-110%)	Yes
CCV	26-JAN-2010 10:00:18	OM_1-26-2010_09-58-45	102	100	102	(90%-110%)	Yes
CCV	26-JAN-2010 10:12:41	OM_1-26-2010_09-58-45	101	100	101	(90%-110%)	Yes
CCV	26-JAN-2010 10:25:10	OM_1-26-2010_09-58-45	102	100	102	(90%-110%)	Yes
CCV	26-JAN-2010 10:37:37	OM_1-26-2010_09-58-45	101	100	101	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	26-JAN-2010 09:03:46	OM_1-26-2010_08-51-25	-1.27	5	Yes
CCB	26-JAN-2010 10:02:07	OM_1-26-2010_09-58-45	2.83	5	Yes
CCB	26-JAN-2010 10:14:31	OM_1-26-2010_09-58-45	-1.42	5	Yes
CCB	26-JAN-2010 10:27:00	OM_1-26-2010_09-58-45	-1.45	5	Yes
CCB	26-JAN-2010 10:39:27	OM_1-26-2010_09-58-45	-1.77	5	Yes

Cyanide, Total

Prep LogBook

Analyst: AXSS Verified by: _____

Batch: 944393

Lab SOP: GL-GC-E-067 REV# 13

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix	Spike Amount	Spike Units
MB	1202022256		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.0125	mL
LCS	1202022263		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
SAMPLE	244447003		EPA 335.3	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
DUP	1202024087	244447003	EPA 335.3	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
MS	1202024088	244447003	EPA 335.3	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
MSD	1202024089	244447003	EPA 335.3	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
SAMPLE	245089001		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
SAMPLE	245089002		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
SAMPLE	245089003		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
SAMPLE	245089004		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
SAMPLE	245112001		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
SAMPLE	245120001		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
SAMPLE	245135001		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
SAMPLE	245135002		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
SAMPLE	245137001		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
DUP	1202022257	245137001	SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
MS	1202022259	245137001	SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
MSD	1202022261	245137001	SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
SAMPLE	245137002		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
SAMPLE	245137003		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
SAMPLE	245142005		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
SAMPLE	245175001		EPA 335.4	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WASTE WATER	.025	mL
SAMPLE	245175002		EPA 335.4	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WASTE WATER	.025	mL
SAMPLE	245175003		EPA 335.4	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WASTE WATER	.025	mL
SAMPLE	245185003		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL
DUP	1202022258	245185003	SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	WATER	.025	mL

Prep Data Logbook Version 1.1

GEL Laboratories LLC

Page#

Prep LogBook

Analyst: AXS5
 Batch: 944393
 Lab SOP: GL-GC-E-067 REV# 13
 Verified by: _____

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MS	1202022260	245185003	SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.0125	mL
MSD	1202022262	245185003	SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245185014		SW846 9010B Prep	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL
SAMPLE	245270001		EPA 335.4	25-JAN-2010 14:41	>12	25 mL	25 mL	1	.025	mL

Comments: Samples 245185003, 1202022258, 1202022260, 1202022262, and 245185014 were received with improper preservation. These samples were preserved with 50% NAOH which has an expiration date of 6/23/10 and a reference number that is 1246596-C.

Reagent/Solvent Lot ID	Amount	Description
691211-C	25 mL	0.25N Sodium Hydroxide Solution
WCN100125-07	0.375 mL	150 ppb CN Distilled ICV Standard
1176724-C	1.25 mL	0.8N H3NO3S
1238146-C	2.5 mL	50% H2SO4 CN Prep
1176778-C	1 mL	51% MgCl2 Soln
1238142-C	1.25 mL	Bismuth Nitrate Solution

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	1/26/2010 8:54:47	OM_1-26-2010_08-51-25
150 ppb		1	axc2	1/26/2010 8:55:39	OM_1-26-2010_08-51-25
100 ppb		1	axc2	1/26/2010 8:56:31	OM_1-26-2010_08-51-25
50 ppb		1	axc2	1/26/2010 8:57:24	OM_1-26-2010_08-51-25
10 ppb		1	axc2	1/26/2010 8:58:18	OM_1-26-2010_08-51-25
CRDL 5.0 ppb		1	axc2	1/26/2010 8:59:11	OM_1-26-2010_08-51-25
ICAL-00		1	axc2	1/26/2010 9:00:05	OM_1-26-2010_08-51-25
ICV		1	axc2	1/26/2010 9:01:56	OM_1-26-2010_08-51-25
ICB		1	axc2	1/26/2010 9:03:46	OM_1-26-2010_08-51-25
CRDL		1	axc2	1/26/2010 9:05:36	OM_1-26-2010_08-51-25
1202022282	944401	1	axc2	1/26/2010 9:07:26	OM_1-26-2010_08-51-25
1202022289	944401	25	axc2	1/26/2010 9:08:19	OM_1-26-2010_08-51-25
245113001	944401	1	axc2	1/26/2010 9:09:13	OM_1-26-2010_08-51-25
245113002	944401	1	axc2	1/26/2010 9:10:06	OM_1-26-2010_08-51-25
245113003	944401	1	axc2	1/26/2010 9:10:59	OM_1-26-2010_08-51-25
245113004	944401	1	axc2	1/26/2010 9:11:51	OM_1-26-2010_08-51-25
245113005	944401	1	axc2	1/26/2010 9:12:44	OM_1-26-2010_08-51-25
245113006	944401	1	axc2	1/26/2010 9:13:37	OM_1-26-2010_08-51-25
245113007	944401	1	axc2	1/26/2010 9:14:29	OM_1-26-2010_08-51-25
245113009	944401	1	axc2	1/26/2010 9:15:22	OM_1-26-2010_08-51-25
CCV		1	axc2	1/26/2010 9:16:14	OM_1-26-2010_08-51-25
CCB		1	axc2	1/26/2010 9:18:04	OM_1-26-2010_08-51-25
245113010	944401	1	axc2	1/26/2010 9:19:52	OM_1-26-2010_08-51-25
245147008	944401	1	axc2	1/26/2010 9:20:45	OM_1-26-2010_08-51-25
1202022283	944401	1	axc2	1/26/2010 9:21:36	OM_1-26-2010_08-51-25
1202022285	944401	1	axc2	1/26/2010 9:22:28	OM_1-26-2010_08-51-25
1202022287	944401	1	axc2	1/26/2010 9:23:20	OM_1-26-2010_08-51-25
245147009	944401	1	axc2	1/26/2010 9:24:13	OM_1-26-2010_08-51-25
1202022284	944401	1	axc2	1/26/2010 9:25:07	OM_1-26-2010_08-51-25
1202022286	944401	1	axc2	1/26/2010 9:26:00	OM_1-26-2010_08-51-25
1202022288	944401	1	axc2	1/26/2010 9:26:53	OM_1-26-2010_08-51-25
245147010	944401	1	axc2	1/26/2010 9:27:47	OM_1-26-2010_08-51-25
CCV		1	axc2	1/26/2010 9:28:40	OM_1-26-2010_08-51-25
CCB		1	axc2	1/26/2010 9:30:29	OM_1-26-2010_08-51-25
245147011*	944401	1	axc2	1/26/2010 9:32:18	OM_1-26-2010_08-51-25
245147012*	944401	1	axc2	1/26/2010 9:33:11	OM_1-26-2010_08-51-25
245147013*	944401	1	axc2	1/26/2010 9:34:04	OM_1-26-2010_08-51-25
245147014*	944401	1	axc2	1/26/2010 9:34:56	OM_1-26-2010_08-51-25
245147015*	944401	1	axc2	1/26/2010 9:35:49	OM_1-26-2010_08-51-25
245147016*	944401	1	axc2	1/26/2010 9:36:41	OM_1-26-2010_08-51-25
245147017*	944401	1	axc2	1/26/2010 9:37:33	OM_1-26-2010_08-51-25
245147018*	944401	1	axc2	1/26/2010 9:38:26	OM_1-26-2010_08-51-25
1202022256*	944394	1	axc2	1/26/2010 9:39:18	OM_1-26-2010_08-51-25
1202022263*	944394	1	axc2	1/26/2010 9:40:09	OM_1-26-2010_08-51-25
CCV		1	axc2	1/26/2010 9:41:02	OM_1-26-2010_08-51-25
CCB		1	axc2	1/26/2010 9:42:53	OM_1-26-2010_08-51-25

Original Run Filename: OM_1-26-2010_08-51-25.OMN created 1/26/2010 08:51:25
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_1-26-2010_08-51-25.OMN last modified 1/26/2010 09:43:57
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-102 EPA 420.4, 9066
 LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1 TCYANIDE		Detection Time	ADF	MDF	Description
			Conc. (ug/L)	Area (Vs)				
WCN100126-01	1	S1	200	8.68	1/26/2010@08:54:47			200 ppb
WCN100126-02	1	S2	150	6.65	1/26/2010@08:55:39			150 ppb
WCN100126-03	1	S3	100	4.23	1/26/2010@08:56:31			100 ppb
WCN100126-04	1	S4	50.0	2.33	1/26/2010@08:57:24			50 ppb
WCN100126-05	1	S5	10.0	0.535	1/26/2010@08:58:18			10 ppb
WCN100126-06	1	S6	5.00	0.332	1/26/2010@08:59:11			CRDL 5.0 ppb
WCN100126-08	1	S7	0.00	0.0443	1/26/2010@09:00:05			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99965 > 0.99500					
Message			Pass					
Action			Continue					
WCN100126-07	1	S8	147	6.42	1/26/2010@09:01:56			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			-1.9 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-1.9 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100126-08	1	S7	-1.27	0.0330	1/26/2010@09:03:46			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.27 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.27 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100126-06	1	S6	5.62	0.330	1/26/2010@09:05:36			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			5.62 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			5.62 > 2.50					
Message			Pass					
Action			None					
1202022282|944401|MB	1	1	-1.64	0.0171	1/26/2010@09:07:26			
1202022289|LCS	1	2	24.2	1.13	1/26/2010@09:08:19		25.00	
245113001	1	3	12.9	0.642	1/26/2010@09:09:13			
245113002	1	4	0.109	0.0924	1/26/2010@09:10:06			
245113003	1	5	-0.503	0.0660	1/26/2010@09:10:59			
245113004	1	6	-0.778	0.0541	1/26/2010@09:11:51			
245113005	1	7	0.853	0.124	1/26/2010@09:12:44			
245113006	1	8	-0.727	0.0563	1/26/2010@09:13:37			
245113007	1	9	0.715	0.118	1/26/2010@09:14:29			
245113009	1	10	0.323	0.102	1/26/2010@09:15:22			
WCN100126-03	1	S3	101	4.46	1/26/2010@09:16:14			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			1.5 < 10.0					
Message			CCV Passed					

		Action	Continue						
		DQM Test: < - Percent Relative Difference							
		Result:	1.5 < 10.0						
		Message	CCV Passed						
		Action	Continue						
WCN100126-08	1	S7	-1.21	0.0353	1/26/2010@09:18:04				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						
245113010	1	11	0.237	0.0979	1/26/2010@09:19:52				
245147008	1	12	2.01	0.174	1/26/2010@09:20:45				
1202022283	1	13	0.898	0.126	1/26/2010@09:21:36				
1202022285	1	14	99.9	4.39	1/26/2010@09:22:28				
1202022287	1	15	99.4	4.37	1/26/2010@09:23:20				
245147009	1	16	1.79	0.165	1/26/2010@09:24:13				
1202022284	1	17	0.819	0.123	1/26/2010@09:25:07				
1202022286	1	18	97.2	4.28	1/26/2010@09:26:00				
1202022288	1	19	98.9	4.35	1/26/2010@09:26:53				
245147010	1	20	-0.567	0.0633	1/26/2010@09:27:47				
WCN100126-03	1	S3	103	4.50	1/26/2010@09:28:40				CCV
		Known Conc:	100						
		DQM Test: > + Percent Relative Difference							
		Result:	2.5 < 10.0						
		Message	CCV Passed						
		Action	Continue						
		DQM Test: < - Percent Relative Difference							
		Result:	2.5 < 10.0						
		Message	CCV Passed						
		Action	Continue						
WCN100126-08	1	S7	-1.63	0.0175	1/26/2010@09:30:29				CCB
		Known Conc:	0.00						
		DQM Test: > + Concentration Limit							
		Result:	-1.63 < 5.00						
		Message	CCB Passed						
		Action	Continue						
		DQM Test: < - Concentration Limit							
		Result:	-1.63 > -5.00						
		Message	CCB Passed						
		Action	Continue						
245147011	1	21	2.89	0.212	1/26/2010@09:32:18				
245147012	1	22	11.2	0.572	1/26/2010@09:33:11				
245147013	1	23	3.03	0.218	1/26/2010@09:34:04				
245147014	1	24	0.384	0.104	1/26/2010@09:34:56				
245147015	1	25	-0.655	0.0595	1/26/2010@09:35:49				
245147016	1	26	7.81	0.424	1/26/2010@09:36:41				
245147017	1	27	-0.657	0.0594	1/26/2010@09:37:33				
245147018	1	28	0.543	0.111	1/26/2010@09:38:26				
1202022256	1	29	-1.01	0.0440	1/26/2010@09:39:18				
1202022263	1	30	49.2	2.21	1/26/2010@09:40:09				
WCN100126-03	1	S3	103	4.54	1/26/2010@09:41:02				CCV
		Known Conc:	100						
		DQM Test: > + Percent Relative Difference							
		Result:	3.4 < 10.0						
		Message	CCV Passed						
		Action	Continue						
		DQM Test: < - Percent Relative Difference							
		Result:	3.4 < 10.0						
		Message	CCV Passed						
		Action	Continue						
WCN100126-08	1	S7	5.78	0.337	1/26/2010@09:42:53				CCB
		Known Conc:	0.00						
		DQM Test: > + Concentration Limit							

Result:	5.78 > 5.00				
Message	CCB Failed				
Action	Stop Run				
DQM Test: < - Concentration Limit					
Result:	5.78 > 5.00				
Message	CCB Passed				
Action	Continue				

Analyte Properties Table for OM_1-26-2010_08-51-25.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

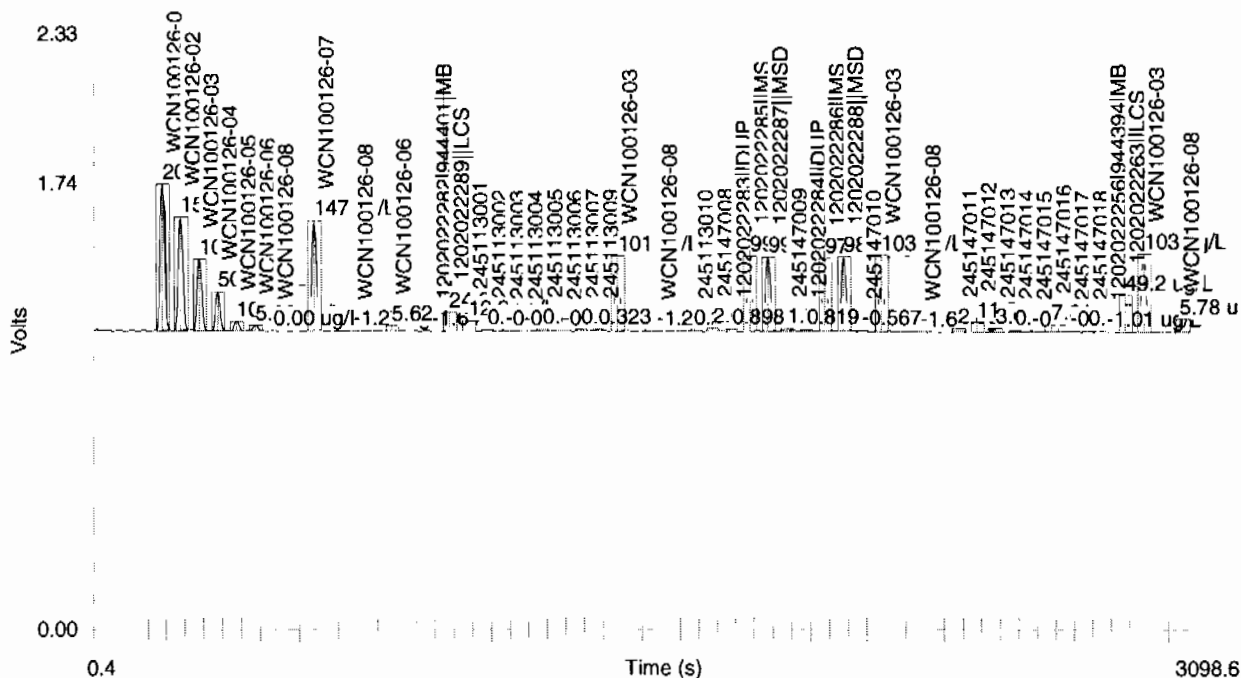
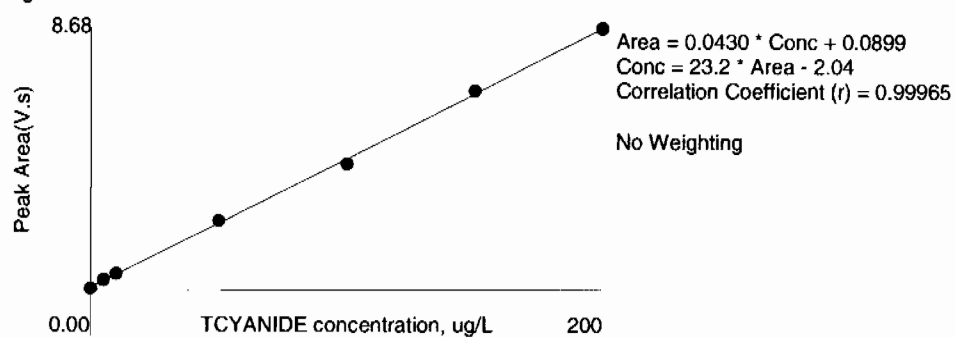


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	8.68	0.566	0.2	1/26/2010	08:55:50
2	150	1	6.65	0.437	-1.5	1/26/2010	08:56:42
3	100	1	4.23	0.275	3.8	1/26/2010	08:57:34
4	50.0	1	2.33	0.152	-3.8	1/26/2010	08:58:27
5	10.0	1	0.535	0.0337	-2.9	1/26/2010	08:59:21
6	5.00	1	0.332	0.0213	-8.8	1/26/2010	09:00:14
7	0.00	1	0.0443	8.65e-4		1/26/2010	09:01:08

Figure 1: TCYANIDE



This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
CCV		1	axc2	1/26/2010 10:00:18	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010 10:02:07	OM_1-26-2010_09-58-45
245147011	944401	1	axc2	1/26/2010 10:03:57	OM_1-26-2010_09-58-45
245147012	944401	1	axc2	1/26/2010 10:04:50	OM_1-26-2010_09-58-45
245147013	944401	1	axc2	1/26/2010 10:05:43	OM_1-26-2010_09-58-45
245147014	944401	1	axc2	1/26/2010 10:06:35	OM_1-26-2010_09-58-45
245147015	944401	1	axc2	1/26/2010 10:07:28	OM_1-26-2010_09-58-45
245147016	944401	1	axc2	1/26/2010 10:08:20	OM_1-26-2010_09-58-45
245147017	944401	1	axc2	1/26/2010 10:09:12	OM_1-26-2010_09-58-45
245147018	944401	1	axc2	1/26/2010 10:10:04	OM_1-26-2010_09-58-45
245147015	944401	1	axc2	1/26/2010 10:10:57	OM_1-26-2010_09-58-45
1202022256	944394	1	axc2	1/26/2010 10:11:49	OM_1-26-2010_09-58-45
CCV		1	axc2	1/26/2010 10:12:41	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010 10:14:31	OM_1-26-2010_09-58-45
245147017	944401	1	axc2	1/26/2010 10:16:19	OM_1-26-2010_09-58-45
1202022263	944394	1	axc2	1/26/2010 10:17:10	OM_1-26-2010_09-58-45
244447003	944394	1	axc2	1/26/2010 10:18:05	OM_1-26-2010_09-58-45
1202024087	944394	1	axc2	1/26/2010 10:18:58	OM_1-26-2010_09-58-45
1202024088	944394	1	axc2	1/26/2010 10:19:52	OM_1-26-2010_09-58-45
1202024089	944394	1	axc2	1/26/2010 10:20:45	OM_1-26-2010_09-58-45
245089001	944394	1	axc2	1/26/2010 10:21:39	OM_1-26-2010_09-58-45
245089002	944394	1	axc2	1/26/2010 10:22:32	OM_1-26-2010_09-58-45
245089003	944394	1	axc2	1/26/2010 10:23:25	OM_1-26-2010_09-58-45
245089004	944394	1	axc2	1/26/2010 10:24:18	OM_1-26-2010_09-58-45
CCV		1	axc2	1/26/2010 10:25:10	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010 10:27:00	OM_1-26-2010_09-58-45
245112001	944394	1	axc2	1/26/2010 10:28:48	OM_1-26-2010_09-58-45
245120001	944394	1	axc2	1/26/2010 10:29:41	OM_1-26-2010_09-58-45
245135001	944394	1	axc2	1/26/2010 10:30:34	OM_1-26-2010_09-58-45
245135002	944394	1	axc2	1/26/2010 10:31:26	OM_1-26-2010_09-58-45
245137001	944394	1	axc2	1/26/2010 10:32:18	OM_1-26-2010_09-58-45
1202022257	944394	1	axc2	1/26/2010 10:33:11	OM_1-26-2010_09-58-45
1202022259	944394	1	axc2	1/26/2010 10:34:02	OM_1-26-2010_09-58-45
1202022261	944394	1	axc2	1/26/2010 10:34:57	OM_1-26-2010_09-58-45
245137002	944394	1	axc2	1/26/2010 10:35:50	OM_1-26-2010_09-58-45
245137003	944394	1	axc2	1/26/2010 10:36:44	OM_1-26-2010_09-58-45
CCV		1	axc2	1/26/2010 10:37:37	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010 10:39:27	OM_1-26-2010_09-58-45
245142005	944394	1	axc2	1/26/2010 10:41:16	OM_1-26-2010_09-58-45
245175001	944394	1	axc2	1/26/2010 10:42:10	OM_1-26-2010_09-58-45
245175002	944394	1	axc2	1/26/2010 10:43:03	OM_1-26-2010_09-58-45
245175003	944394	1	axc2	1/26/2010 10:43:56	OM_1-26-2010_09-58-45
245185003	944394	1	axc2	1/26/2010 10:44:49	OM_1-26-2010_09-58-45
1202022258	944394	1	axc2	1/26/2010 10:45:43	OM_1-26-2010_09-58-45
1202022260	944394	1	axc2	1/26/2010 10:46:35	OM_1-26-2010_09-58-45
1202022262	944394	1	axc2	1/26/2010 10:47:27	OM_1-26-2010_09-58-45
245185014	944394	1	axc2	1/26/2010 10:48:20	OM_1-26-2010_09-58-45
245270001	944394	1	axc2	1/26/2010 10:49:12	OM_1-26-2010_09-58-45
CCV		1	axc2	1/26/2010 10:50:05	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010 10:51:54	OM_1-26-2010_09-58-45
1202020944	943824	1	axc2	1/26/2010 10:53:44	OM_1-26-2010_09-58-45
1202020948	943824	1	axc2	1/26/2010 10:54:36	OM_1-26-2010_09-58-45
245032001	943824	1	axc2	1/26/2010 10:55:30	OM_1-26-2010_09-58-45
245127001*	943824	1	axc2	1/26/2010 10:56:24	OM_1-26-2010_09-58-45
245130001	943824	1	axc2	1/26/2010 10:57:18	OM_1-26-2010_09-58-45
245323003	943824	1	axc2	1/26/2010 10:58:12	OM_1-26-2010_09-58-45
1202020945	943824	1	axc2	1/26/2010 10:59:06	OM_1-26-2010_09-58-45
1202020946	943824	1	axc2	1/26/2010 11:00:00	OM_1-26-2010_09-58-45

1202020947	943824	1	axc2	1/26/2010	11:00:53	OM_1-26-2010_09-58-45
245323014	943824	1	axc2	1/26/2010	11:01:46	OM_1-26-2010_09-58-45
CCV		1	axc2	1/26/2010	11:02:38	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010	11:04:28	OM_1-26-2010_09-58-45
245323025	943824	1	axc2	1/26/2010	11:06:17	OM_1-26-2010_09-58-45
245341001	943824	1	axc2	1/26/2010	11:07:10	OM_1-26-2010_09-58-45
245341003	943824	1	axc2	1/26/2010	11:08:03	OM_1-26-2010_09-58-45
245341005	943824	1	axc2	1/26/2010	11:08:55	OM_1-26-2010_09-58-45
245341007	943824	1	axc2	1/26/2010	11:09:48	OM_1-26-2010_09-58-45
245341009	943824	1	axc2	1/26/2010	11:10:40	OM_1-26-2010_09-58-45
245341010	943824	1	axc2	1/26/2010	11:11:32	OM_1-26-2010_09-58-45
245355007	943824	1	axc2	1/26/2010	11:12:27	OM_1-26-2010_09-58-45
245362002	943824	1	axc2	1/26/2010	11:13:21	OM_1-26-2010_09-58-45
245378002	943824	1	axc2	1/26/2010	11:14:16	OM_1-26-2010_09-58-45
CCV		1	axc2	1/26/2010	11:15:08	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010	11:16:58	OM_1-26-2010_09-58-45
1202023391	943824	1	axc2	1/26/2010	11:18:48	OM_1-26-2010_09-58-45
1202023392	943824	1	axc2	1/26/2010	11:19:41	OM_1-26-2010_09-58-45
1202023393	943824	1	axc2	1/26/2010	11:20:35	OM_1-26-2010_09-58-45
245382001	943824	1	axc2	1/26/2010	11:21:28	OM_1-26-2010_09-58-45
245386001	943824	1	axc2	1/26/2010	11:22:22	OM_1-26-2010_09-58-45
245127001	943824	1	axc2	1/26/2010	11:23:16	OM_1-26-2010_09-58-45
245390001	943824	1	axc2	1/26/2010	11:24:09	OM_1-26-2010_09-58-45
245392001	943824	1	axc2	1/26/2010	11:25:03	OM_1-26-2010_09-58-45
245392002	943824	1	axc2	1/26/2010	11:25:55	OM_1-26-2010_09-58-45
CCV		1	axc2	1/26/2010	11:26:48	OM_1-26-2010_09-58-45
CCB		1	axc2	1/26/2010	11:28:38	OM_1-26-2010_09-58-45

Author: axc2

Date : 1/26/2010

Original Run Filename: OM_1-26-2010_09-58-45.OMN created 1/26/2010 09:58:45
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_1-26-2010_09-58-45.OMN last modified 1/26/2010 11:29:43
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-102 EPA 420.4, 9066
 LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1 TCYANIDE		Detection Time	ADF	MDF	Description
			Conc. (ug/L)	Area (Vs)				
WCN100126-03	1	S3	102	4.46	1/26/2010@10:00:18			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			1.6 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			1.6 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100126-08	1	S7	2.83	0.210	1/26/2010@10:02:07			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			2.83 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			2.83 > -5.00					
Message			CCB Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
245147011|944401|	1	21	2.95	0.215	1/26/2010@10:03:57			
245147012	1	22	11.6	0.586	1/26/2010@10:04:50			
245147013	1	23	3.64	0.245	1/26/2010@10:05:43			
245147014	1	24	0.385	0.104	1/26/2010@10:06:35			
245147015	1	25	2.58	0.199	1/26/2010@10:07:28			
245147016	1	26	8.00	0.432	1/26/2010@10:08:20			
245147017	1	27	3.47	0.237	1/26/2010@10:09:12			
245147018	1	28	1.87	0.168	1/26/2010@10:10:04			
245147015	1	25	0.130	0.0933	1/26/2010@10:10:57			
1202022256|944394|MB	1	29	-0.422	0.0695	1/26/2010@10:11:49			
WCN100126-03	1	S3	101	4.45	1/26/2010@10:12:41			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			1.2 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			1.2 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100126-08	1	S7	-1.42	0.0263	1/26/2010@10:14:31			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.42 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.42 > -5.00					
Message			CCB Passed					
Action			Continue					
245147017|944401|	1	27	-0.706	0.0572	1/26/2010@10:16:19			
1202022263|944394|LCS	1	30	49.7	2.23	1/26/2010@10:17:10			
244447003	1	31	-1.57	0.0199	1/26/2010@10:18:05			
1202024087|DUP	1	32	-1.41	0.0270	1/26/2010@10:18:58			
1202024088|MS	1	33	107	4.68	1/26/2010@10:19:52			
1202024089|MSD	1	34	104	4.55	1/26/2010@10:20:45			

245089001	1	35	-1.51	0.0226	1/26/2010@10:21:39		
245089002	1	36	-1.45	0.0252	1/26/2010@10:22:32		
245089003	1	37	-1.32	0.0307	1/26/2010@10:23:25		
245089004	1	38	-1.41	0.0271	1/26/2010@10:24:18		
WCN100126-03	1	S3	102	4.48	1/26/2010@10:25:10		CCV
Known Conc: 100							
DQM Test: > + Percent Relative Difference							
Result: 2.0 < 10.0							
Message CCV Passed							
Action Continue							
DQM Test: < - Percent Relative Difference							
Result: 2.0 < 10.0							
Message CCV Passed							
Action Continue							
WCN100126-08	1	S7	-1.45	0.0252	1/26/2010@10:27:00		CCB
Known Conc: 0.00							
DQM Test: > + Concentration Limit							
Result: -1.45 < 5.00							
Message CCB Passed							
Action Continue							
DQM Test: < - Concentration Limit							
Result: -1.45 > -5.00							
Message CCB Passed							
Action Continue							
245112001	1	39	-1.32	0.0309	1/26/2010@10:28:48		
245120001	1	40	-1.68	0.0151	1/26/2010@10:29:41		
245135001	1	41	-1.58	0.0196	1/26/2010@10:30:34		
245135002	1	42	-1.93	0.00472	1/26/2010@10:31:26		
245137001	1	43	-1.47	0.0245	1/26/2010@10:32:18		
1202022257||DUP	1	44	-1.40	0.0273	1/26/2010@10:33:11		
1202022259||MS	1	45	105	4.60	1/26/2010@10:34:02		
1202022261||MSD	1	46	102	4.48	1/26/2010@10:34:57		
245137002	1	47	-0.835	0.0517	1/26/2010@10:35:50		
245137003	1	48	-1.51	0.0224	1/26/2010@10:36:44		
WCN100126-03	1	S3	101	4.45	1/26/2010@10:37:37		CCV
Known Conc: 100							
DQM Test: > + Percent Relative Difference							
Result: 1.2 < 10.0							
Message CCV Passed							
Action Continue							
DQM Test: < - Percent Relative Difference							
Result: 1.2 < 10.0							
Message CCV Passed							
Action Continue							
WCN100126-08	1	S7	-1.77	0.0114	1/26/2010@10:39:27		CCB
Known Conc: 0.00							
DQM Test: > + Concentration Limit							
Result: -1.77 < 5.00							
Message CCB Passed							
Action Continue							
DQM Test: < - Concentration Limit							
Result: -1.77 > -5.00							
Message CCB Passed							
Action Continue							
245142005	1	49	-0.822	0.0523	1/26/2010@10:41:16		
245175001	1	50	1.04	0.132	1/26/2010@10:42:10		
245175002	1	51	16.2	0.787	1/26/2010@10:43:03		
245175003	1	52	2.88	0.212	1/26/2010@10:43:56		
245185003	1	53	-7.41e-4	0.0876	1/26/2010@10:44:49		
1202022258||DUP	1	54	-1.09	0.0406	1/26/2010@10:45:43		
1202022260||MS	1	55	106	4.67	1/26/2010@10:46:35		
1202022262||MSD	1	56	105	4.62	1/26/2010@10:47:27		
245185014	1	57	-0.743	0.0557	1/26/2010@10:48:20		
245270001	1	58	8.01	0.433	1/26/2010@10:49:12		
WCN100126-03	1	S3	102	4.46	1/26/2010@10:50:05		CCV
Known Conc: 100							
DQM Test: > + Percent Relative Difference							
Result: 1.6 < 10.0							

		Message	CCV Passed					
		Action	Continue					
		DQM Test: < - Percent Relative Difference						
		Result:	1.6 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100126-08	1	S7	-1.71	0.0141	1/26/2010@10:51:54			CCB
		Known Conc:	0.00					
		DQM Test: > + Concentration Limit						
		Result:	-1.71 < 5.00					
		Message	CCB Passed					
		Action	Continue					
		DQM Test: < - Concentration Limit						
		Result:	-1.71 > -5.00					
		Message	CCB Passed					
		Action	Continue					
1202020944|943824|MB	1	59	-1.90	0.00597	1/26/2010@10:53:44			
1202020948||LCS	1	60	50.5	2.26	1/26/2010@10:54:36			
245032001	1	61	-0.813	0.0526	1/26/2010@10:55:30			
245127001	1	62	5.79	0.337	1/26/2010@10:56:24			
245130001	1	63	-1.19	0.0366	1/26/2010@10:57:18			
245323003	1	64	-1.30	0.0316	1/26/2010@10:58:12			
1202020945||DUP	1	65	-1.49	0.0236	1/26/2010@10:59:06			
1202020946||MS	1	66	107	4.70	1/26/2010@11:00:00			
1202020947||MSD	1	67	107	4.69	1/26/2010@11:00:53			
245323014	1	68	-1.45	0.0252	1/26/2010@11:01:46			
WCN100126-03	1	S3	101	4.46	1/26/2010@11:02:38			CCV
		Known Conc:	100					
		DQM Test: > + Percent Relative Difference						
		Result:	1.5 < 10.0					
		Message	CCV Passed					
		Action	Continue					
		DQM Test: < - Percent Relative Difference						
		Result:	1.5 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100126-08	1	S7	-1.27	0.0331	1/26/2010@11:04:28			CCB
		Known Conc:	0.00					
		DQM Test: > + Concentration Limit						
		Result:	-1.27 < 5.00					
		Message	CCB Passed					
		Action	Continue					
		DQM Test: < - Concentration Limit						
		Result:	-1.27 > -5.00					
		Message	CCB Passed					
		Action	Continue					
245323025	1	69	-1.07	0.0417	1/26/2010@11:06:17			
245341001	1	70	-0.612	0.0613	1/26/2010@11:07:10			
245341003	1	71	-1.34	0.0299	1/26/2010@11:08:03			
245341005	1	72	-1.33	0.0302	1/26/2010@11:08:55			
245341007	1	73	-1.74	0.0128	1/26/2010@11:09:48			
245341009	1	74	-1.57	0.0201	1/26/2010@11:10:40			
245341010	1	75	-1.09	0.0408	1/26/2010@11:11:32			
245355007	1	76	-0.933	0.0475	1/26/2010@11:12:27			
245362002	1	77	0.794	0.122	1/26/2010@11:13:21			
245378002	1	78	-0.745	0.0556	1/26/2010@11:14:16			
WCN100126-03	1	S3	102	4.47	1/26/2010@11:15:08			CCV
		Known Conc:	100					
		DQM Test: > + Percent Relative Difference						
		Result:	1.8 < 10.0					
		Message	CCV Passed					
		Action	Continue					
		DQM Test: < - Percent Relative Difference						
		Result:	1.8 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100126-08	1	S7	-1.40	0.0274	1/26/2010@11:16:58			CCB
		Known Conc:	0.00					

DQM Test: > + Concentration Limit						
Result:	-1.40 < 5.00					
Message	CCB Passed					
Action	Continue					
DQM Test: < - Concentration Limit						
Result:	-1.40 > -5.00					
Message	CCB Passed					
Action	Continue					
1202023391	DUP	1	79	-1.50	0.0229	1/26/2010@11:18:48
1202023392	MS	1	80	104	4.57	1/26/2010@11:19:41
1202023393	MSD	1	81	104	4.57	1/26/2010@11:20:35
245382001		1	82	-1.27	0.0331	1/26/2010@11:21:28
245386001		1	83	-2.03	2.70e-4	1/26/2010@11:22:22
245127001		1	62	-0.758	0.0550	1/26/2010@11:23:16
245390001		1	84	-1.68	0.0154	1/26/2010@11:24:09
245392001		1	85	-1.33	0.0306	1/26/2010@11:25:03
245392002		1	86	-1.86	0.00771	1/26/2010@11:25:55
WCN100126-03		1	S3	101	4.44	1/26/2010@11:26:48
Known Conc:				100		
DQM Test: > + Percent Relative Difference						
Result:	1.0 < 10.0					
Message	CCV Passed					
Action	Continue					
DQM Test: < - Percent Relative Difference						
Result:	1.0 < 10.0					
Message	CCV Passed					
Action	Continue					
WCN100126-08		1	S7	-1.17	0.0373	1/26/2010@11:28:38
Known Conc:				0.00		
DQM Test: > + Concentration Limit						
Result:	-1.17 < 5.00					
Message	CCB Passed					
Action	Continue					
DQM Test: < - Concentration Limit						
Result:	-1.17 > -5.00					
Message	CCB Passed					
Action	Continue					

Analyte Properties Table for OM_1-26-2010_09-58-45.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

[illegible]

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	8.68	0.566	0.2	1/26/2010	08:55:50
2	150	1	6.65	0.437	-1.5	1/26/2010	08:56:42
3	100	1	4.23	0.275	3.8	1/26/2010	08:57:34
4	50.0	1	2.33	0.152	-3.8	1/26/2010	08:58:27
5	10.0	1	0.535	0.0337	-2.9	1/26/2010	08:59:21
6	5.00	1	0.332	0.0213	-8.8	1/26/2010	09:00:14
7	0.00	1	0.0443	8.65e-4		1/26/2010	09:01:08

Figure 1 is a linear calibration plot showing the relationship between Peak Area (V s) on the y-axis and TCYANIDE concentration (ug/L) on the x-axis. The y-axis ranges from 0.00 to 8.68, and the x-axis ranges from 0.00 to 200. A linear regression line is fitted to the data points, with the equation $\text{Area} = 0.0430 * \text{Conc} + 0.0899$ and a correlation coefficient $(r) = 0.99965$. The text "No Weighting" is displayed on the plot.