

Wednesday, February 03, 2010

Page 1 of 3
REQUEST NUMBER: 10-1565

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

These Samples are on:

General Engineering Laboratories, Inc., Charleston, SC.

LANL Request Number: 10-1565

2040 Savage Rd

Per Agreement Number: 126310011

Charleston, SC 29407

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/3/2010

TURNAROUND/REPORT DUE: 3/5/2010


TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ERS MO CONTACT:

Signature:



PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:6020		1	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7334	R	2/1/2010	
		1	RE15-10-7335	R	2/1/2010	
		1	RE15-10-7336	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	
		1	RE15-10-7338	R	2/1/2010	
		1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	

Wednesday, February 03, 2010

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REQUEST NUMBER: 10-1565

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:6020	SW-846:6850	1	RE15-10-7344	W	2/1/2010	
		1	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7334	R	2/1/2010	
		1	RE15-10-7335	R	2/1/2010	
		1	RE15-10-7336	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	
		1	RE15-10-7338	R	2/1/2010	
		1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	
SW-846:7470A	SW-846:7471A	1	RE15-10-7344	W	2/1/2010	
		1	RE15-10-7344	W	2/1/2010	
		1	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7334	R	2/1/2010	
		1	RE15-10-7335	R	2/1/2010	
		1	RE15-10-7336	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	
		1	RE15-10-7338	R	2/1/2010	
		1	RE15-10-7339	R	2/1/2010	
SW-846:9012A		1	RE15-10-7342	R	2/1/2010	
		1	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7334	R	2/1/2010	
		1	RE15-10-7335	R	2/1/2010	
		1	RE15-10-7336	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	
		1	RE15-10-7338	R	2/1/2010	
		1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	

Wednesday, February 03, 2010

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REQUEST NUMBER: 10-1565

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:9012A						
		1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	
		1	RE15-10-7344	W	2/1/2010	

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Wednesday, February 03, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1565

LOS ALAMOS

REQUEST NUMBER: 10-1565

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/5/2010

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
RE15-10-7332	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7333	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7336	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7337	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7334	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7335	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7338	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7339	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7344	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-7344	1	POLY	SW-846:6850	Ice	W
RE15-10-7344	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-7342	1	POLY	Met+U+CLO4+CN	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr, FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7332

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010	MEDIA:	QBT3		A11h	
TIME COLLECTED(HH:MM)		0850	SUB-MEDIA:	TUFF 1		NA	
PRS ID:	15-008(g)	OK	SAMPLE TECH CODE:	HA		OK	
LOCATION ID:	15-610565	↓	FIELD QC TYPE:	NA		↓	
LOCATION TYPE:	GENERIC	↓	FIELD PREP:	NA		↓	
TOP DEPTH:	0	0.0	SAMPLE USAGE:	INV		↓	
BOTTOM DEPTH:	0	0.5	SCREEN/PORT DESC:	NA			
FIELD MATRIX:	R	5	EXCAVATED: YES/NO/NA				
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA	
BOREHOLE: YES/NO/NA			BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION:	NA

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	8082+NMED-HEXP	250 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 # 1/6/10	Ice	Y	
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brownish gray sand and cobbles

FD: RE15-10-7342

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 5 dpmBeta/Gamma \leq 167 dpm

HE negative

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

COLLECTED BY (PRINT)

Th McFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7333

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		0906		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610565	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	2.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO	NO			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	8082+NMED-HEXP	250 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	1.6 LITER POLY 1 liter LC 1/6/10	Ice	Y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: brown sand with cobbles and few roots

SAMPLE COMMENTS:

NA

LOCATION DESC: 8g-2

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 11 dpm
Beta/Gamma \leq 1596 dpm

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

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sheri Newwood (Signature) Sheri Newwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7334

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA: OBT3		Allh	
TIME COLLECTED (HH:MM)		0910		SUB-MEDIA: TUFF 1		NA	
PRS ID: 15-008(g)		OK		SAMPLE TECH CODE: HA		OK	
LOCATION ID: 15-610566		↓		FIELD QC TYPE: NA		↓	
LOCATION TYPE: GENERIC		↓		FIELD PREP: NA		↓	
TOP DEPTH: 0		0.0		SAMPLE USAGE: INV		↓	
BOTTOM DEPTH: 0		0.5		SCREEN/PORT DESC: NA		↓	
FIELD MATRIX: R		S		EXCAVATED: YES/NO/NA		NA	
COMPOSITE TYPE: NA		COMPOSITE TIME INTERVAL: NA		WATER FLOWING: YES/NO/NA		NA	
BOREHOLE: YES/NO/NA		BOREHOLE DECLINATION: NA		BOREHOLE DIRECTION: NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	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 XC 1/6/10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Brown sand and cobbles

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-4 center of AOC

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 22 dpm
Beta/Gamma \leq 1430 dpm

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

COLLECTED BY (PRINT)

TLMcfarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sherri Sheppard (Signature) Sherri Sheppard	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7335

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		0920		SUB-MEDIA:	TUFF 1		L
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610566	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	4.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	R		EXCAVATED: YES/NO/NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES/NO/NA			
BOREHOLE: YES/NO/NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	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 1 liter AC 1/6/10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1	✓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC:

Pinkish gray tuff and brown sand, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-4 center of AOC

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 16 dpm
Beta/Gamma \leq 2080 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) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Kevin Newwood (Signature) Kevin Newwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7336

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		0916		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610567			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:			
FIELD MATRIX:	R	3		EXCAVATED: YES/NO/NA			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	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 1/4" 20 1/4 1/2	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: brown sand with cobbles

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-1

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 11 dpm
Beta/Gamma \leq 1727 dpm

PID Ambient 0.0
Reading 0.0 ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7337

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		ALLH
TIME COLLECTED (HH:MM)		0928		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610567			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES (NO) NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
				WATER FLOWING: YES (NO) NA			
BOREHOLE: YES (NO) NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Normal	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 1 liter RC 1/6/10	Ice	Y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: brown sand with cobbles

FR RE15-10-7344

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-1

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 11 dpm
Beta/Gamma \leq 1631 dpm

PID Ambient Reading 0.0 ppm

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sherrill Newwood (Signature) Sherrill Newwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7338

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		0935		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610568	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES (NO) NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES (NO) NA				BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		
				WATER FLOWING: YES (NO) NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	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 pc 1/6/10	Ice	y	
1		NMED Explosives list	250 ML AMBER GLASS	Ice	y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC:

Brown sand and cobbles, roots

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-3

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha \leq 16 dpm
Beta/Gamma \leq 1506 dpm

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

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT) TLMofarland

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sheri Shewood (Signature) Sheri Shewood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7339

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		OK
TIME COLLECTED (HH:MM)		02/01/2010 7:10		SUB-MEDIA:	TUFF 1		↓
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	15-610568	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC	↓		FIELD PREP:	NA		↓
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		↓
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA	NO		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		WATER FLOWING: YES/NO/NA
BOREHOLE: YES/NO/NA	NO			BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION:
					NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	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 LC 1/6/00	Ice	y	
1	↓	NMED Explosives list	250 ML AMBER GLASS	Ice	y	
1	↓	RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	y	

SAMPLE DESC: pinkish grey tuff and some brown sand

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-3

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha ≤ 22 dpm
Beta/Gamma ≤ 1893 dpm

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

COLLECTED BY (PRINT)

R Saunders

REVIEWED BY (PRINT)

TLMcFarlane

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sheri Sherwood (Signature) Sheri Sherwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7342

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		0850		SUB-MEDIA:	TUFF 1		NA
PRS ID:	15-008(g)	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	UNK	15-610565		FIELD QC TYPE:	FD		
LOCATION TYPE:	GENERIC	OK		FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	QC		
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			
FIELD MATRIX:	R	S		EXCAVATED: YES <input checked="" type="radio"/> NO <input type="radio"/> NA			
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES <input checked="" type="radio"/> NO <input type="radio"/> NA		BOREHOLE DECLINATION:	NA	BOREHOLE DIRECTION:	NA		
				WATER FLOWING: YES <input checked="" type="radio"/> NO <input type="radio"/> NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	8082+NMED-HEXP	250 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 GAE POLY liter LC 1/6/10	Ice	Y	
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None	Y	

SAMPLE DESC: QC Sample of RE15-10-7332

Brownish gray sand and cobbles

SAMPLE COMMENTS:

NA

LOCATION DESC:

8g-2

FIELD SCREENING/MEASUREMENT RESULTS:

HE negative

Alpha \leq 5 dpmBeta/Gamma \leq 1617 dpmPID $\frac{\text{Ambient Reading}}{0.0} = 0.0$ ppm

COLLECTED BY (PRINT)

TLMcFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sherri Sherwood (Signature) Sherri Sherwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2483

EVENT NAME: 4th Qtr. FY09 - AOC 15-008(g) - Threemile Canyon

SAMPLE ID: RE15-10-7344

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/01/2010	MEDIA:	NA		ok	
TIME COLLECTED (HH:MM)		0936	SUB-MEDIA:	OTHER			
PRS ID:	15-008(g)	ok	SAMPLE TECH CODE:	DC			
LOCATION ID:	UNK	15 - G10567	FIELD QC TYPE:	FR			
LOCATION TYPE:	GENERIC	ok	FIELD PREP:	UF			
TOP DEPTH:	0		SAMPLE USAGE:	QC			
BOTTOM DEPTH:	0		SCREEN/PORT DESC:	NA			
FIELD MATRIX:	W		EXCAVATED: YES (NO) NA				
COMPOSITE TYPE:	NA		COMPOSITE TIME INTERVAL:	NA			
BOREHOLE: YES (NO) NA			WATER FLOWING: YES (NO) NA				
BOREHOLE DECLINATION:	NA		BOREHOLE DIRECTION:	NA			

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	normal	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 RE15-10-7337

SAMPLE COMMENTS:

Rinsate

LOCATION DESC:

NA

FIELD SCREENING/MEASUREMENT RESULTS:

NA

COLLECTED BY (PRINT)

T L McFarland

REVIEWED BY (PRINT)

R Saunders

RELINQUISHED BY (Printed Name) R Saunders (Signature) R Saunders	Date/Time 2/1/10 1630	RECEIVED BY (Printed Name) Sherrif Greenwood (Signature) Sherrif Greenwood	Date/Time 2/1/10 1630
RELINQUISHED BY (Printed Name) (Signature)	Date/Time	RECEIVED BY (Printed Name) (Signature)	Date/Time

Rad Screening Data Release Form

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

RE 15-10-7332
7333
7334
7335
7336
7337
7338
7339
7342
8304
8305
8306
8307

RE 15-10-8308
8309
8300
8301
8324
7981
7982
7983
7984
7985

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

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

RE 15-10-7344] rinsate
RE 15-10-8328

RE 15-10-8332 FTB


Reason:

.....
Print Last Name McFarland

Signature

Tracy M.


Date 2/01/10

DATA VALIDATION COVER SHEET	
5121-1 <div style="text-align: center;">Data Validation Cover Sheet</div>	Records Use only 


Section I.							
REQUEST NUMBER: <u>10-1565</u>		VALIDATION DATE: <u>03/16/10</u>		LAB CODE: <u>GEL</u>			
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>							
VALIDATOR: <u>David Schwent</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 checked="" type="checkbox"/> LCMSMS PERCHLORATES				
<input type="checkbox"/> TPH-DRO	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. QUANTITATION REPORTS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. SAMPLE CHROMATOGRAMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9. TICS FORMS
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. STANDARD CHROMATOGRAMS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. TICS MASS SPECTRA
Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):							
1. It should be noted that the MS/MSD analyses for all analyses were performed on LANL samples from other RNs and that raw data for the parent samples were not included in the data package. No sample data were qualified as a result.							
Reviewed by: <u>Monica Dymerski</u> Level <u>I</u> Date: <u>03/17/10</u>							
VALIDATOR'S SIGNATURE: <u>David Schwent</u>				DATE: <u>03/16/10</u>			

Form 5121-1, Revision 0.0


LOS ALAMOS
Environmental Restoration Project

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 type="checkbox"/>	<input checked="" type="checkbox"/>	1. The Internal Standard (IS) relative retention time has shifted by more than 0.98 to 1.02 seconds.	R, PERC0	J, PERC0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC0b	R, PERC0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The IS are count is <25% of the expected value.	UJ, PERC1a	J, PERC1a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The IS area count is <70% but >25% of the average of that obtained from the calibration standards.	UJ, PERC1b	J, PERC1b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. The IS area count is >130% of the average of that obtained from the calibration standards.	UJ, PERC1c	J, PERC1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC1d	R, PERC1d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, PERC4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $>5X$.	N/A	J+, PERC4a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, and/or equipment blank.	U, PERC4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC4e	R, PERC4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, PERC7	J, PERC7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.99 .	UJ, R, PERC7a	J, PERC7a

LC/MS/MS PERCHLORATE ANALYTICAL DATA VALIDATION CHECKLIST	
5121-2	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 type="checkbox"/>	<input checked="" type="checkbox"/>	16. The affected analyte is considered not detected because ion abundance ratios did not meet specifications.	N/A	R, PERC8
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17. The ion ratio documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	N/A	R, PERC8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ PERC9	J-, PERC9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. The holding time was > 2 times the applicable holding time requirement.	R, PERC9a	J-, PERC9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, PERC12	J-, PERC12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, PERC12a	J-, PERC12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, PERC12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC12c	R, PERC12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The MS/MSD percent recovery was <10%	R, PERC12d	R, PERC12d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The MS/MSD percent recovery was >10% but <75%	UJ, PERC12e	J, PERC12e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The MS/MSD percent recovery was >125%.	N/A	J+, PERC12f

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

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 952422
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7332
 Date Received: 05-FEB-10
 GEL Job No (SDG): 10-1565
 GEL Sample ID: 246322001
 Date Filtered: 19-FEB-10
 Injection Volume (uL): 20
 %Solids: 93.5

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.535	2.14	0.535	ug/kg	U	1	28-FEB-10 21:03	per0228052a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:03	per0228052a
14797-73-0	Perchlorate-101	.535	2.14	0.535	ug/kg	U	1	28-FEB-10 21:03	per0228052a
	Perchlorate-O(18)			5.24	ug/kg		1	28-FEB-10 21:03	per0228052a

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

*Concentration =

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 952422

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7333

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322002

Date Filtered: 19-FEB-10

Injection Volume (uL): 20

% Solids: 94.3

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 21:12	per0228053a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:12	per0228053a
14797-73-0	Perchlorate-101	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 21:12	per0228053a
	Perchlorate-O(18)			5.19	ug/kg		1	28-FEB-10 21:12	per0228053a

[^] 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: 952422

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7336

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322003

Date Filtered: 19-FEB-10

Injection Volume (uL): 20

%Solids: 92.8

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.539	2.16	0.539	ug/kg	U	1	28-FEB-10 21:21	per0228054a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:21	per0228054a
14797-73-0	Perchlorate-101	.539	2.16	0.539	ug/kg	U	1	28-FEB-10 21:21	per0228054a
	Perchlorate-O(18)			5.21	ug/kg		1	28-FEB-10 21:21	per0228054a

[^] 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

DJS

03/16/10

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 252422
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7337
 Date Received: 05-FEB-10
 GEL Job No (SDG): 10-1565
 GEL Sample ID: 246322004
 Date Filtered: 19-FEB-10
 Injection Volume (uL): 20
 %Solids: 94.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 21:30	per0228055a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:30	per0228055a
14797-73-0	Perchlorate-101	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 21:30	per0228055a
	Perchlorate-O(18)			5.26	ug/kg		1	28-FEB-10 21:30	per0228055a

[^] 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: 952422

Extraction Type: Solid Prep

Client Sample No.

RE15-10-7334

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322005

Date Filtered: 19-FEB-10

Injection Volume (uL): 20

%Solids: 78

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	.642	2.57	0.642	ug/kg	U	1	28-FEB-10 21:39	per0228056a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:39	per0228056a
14797-73-0	Perchlorate-101	.642	2.57	0.642	ug/kg	U	1	28-FEB-10 21:39	per0228056a
	Perchlorate-O(18)			7.32	ug/kg		1	28-FEB-10 21:39	per0228056a

[^] 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
Aliquot %Solids

DJS

03/16/10

Form I

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 952422

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7335

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322006

Date Filtered: 19-FEB-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	.568	2.27	0.568	ug/kg	U	1	28-FEB-10 21:48	per0228057a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:48	per0228057a
14797-73-0	Perchlorate-101	.568	2.27	0.568	ug/kg	U	1	28-FEB-10 21:48	per0228057a
	Perchlorate-O(18)			5.60	ug/kg		1	28-FEB-10 21:48	per0228057a

[^] 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: 952422
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7338
 Date Received: 05-FEB-10
 GEL Job No (SDG): 10-1565
 GEL Sample ID: 246322007
 Date Filtered: 19-FEB-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	.621	2.48	0.621	ug/kg	U	1	28-FEB-10 21:57	per0228058a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:57	per0228058a
14797-73-0	Perchlorate-101	.621	2.48	0.621	ug/kg	U	1	28-FEB-10 21:57	per0228058a
	Perchlorate-O(18)			6.23	ug/kg		1	28-FEB-10 21:57	per0228058a

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

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

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 952422

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7339

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322008

Date Filtered: 19-FEB-10

Injection Volume (uL): 20

%Solids: 87

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.577	2.31	0.577	ug/kg	U	1	28-FEB-10 22:33	per0228062a
	Perchlorate Isotope Ratio								
14797-73-0	Perchlorate-101	.577	2.31	0.577	ug/kg	U	1	28-FEB-10 22:33	per0228062a
	Perchlorate-O(18)			5.82	ug/kg		1	28-FEB-10 22:33	per0228062a

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

*Concentration =

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

Form 1

P perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 952422

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7342

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322009

Date Filtered: 19-FEB-10

Injection Volume (uL): 20

%Solids: 94.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 22:43	per0228063a
	Perchlorate Isotope Ratio						1	28-FEB-10 22:43	per0228063a
14797-73-0	Perchlorate-101	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 22:43	per0228063a
	Perchlorate-O(18)			5.09	ug/kg		1	28-FEB-10 22:43	per0228063a

[^] 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

P perchlorate Analysis Data Sheet

Client Sample No. RE15-10-7344

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565-1

GEL Sample ID: 246323001

Date Filtered: 12-FEB-10

Injection Volume (uL): 20

% Solids:

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: WATER

Extraction Batch ID: 950041

Extraction Type: Filter/DAI


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	17-FEB-10 06:20	per0216096a
	Perchlorate Isotope Ratio						1	17-FEB-10 06:20	per0216096a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	17-FEB-10 06:20	per0216096a
	Perchlorate-O(18)			0.487	ug/L		1	17-FEB-10 06:20	per0216096a

[^] 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 <div style="text-align: center;">Data Validation Cover Sheet</div>	Records Use only 


Section I.		
REQUEST NUMBER: <u>10-1565</u>	VALIDATION DATE: <u>03/17/10</u>	LAB CODE: <u>GEL</u>
CONTRACT LABORATORY NAME: <u>GEL Laboratories LLC</u>		
VALIDATOR: <u>David Schwent</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"/> TPH-DRO	<input checked="" type="checkbox"/> METALS	<input type="checkbox"/> PCB CONGENERS
<input type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES
<input type="checkbox"/> LCMSMS PERCHLORATES		
<input type="checkbox"/> ORGANOCHLORINE PESTICIDES/POLYCHLORINATED BIPHENYLS		
<input type="checkbox"/> OTHER (DESCRIBE): _____		

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


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

- The soil MS %R of Ba was <10%. All associated sample results were qualified R,I6. The soil MS %R of Mn was < the laboratory LAL but ≥10%. All associated sample results were detects and, thus, were qualified J-,I6a. The soil MS %R of Na was > the laboratory UAL. All associated sample results were detects and, thus, were qualified J+,I6b. In the soil MS analysis associated with only sample RE15-10 -7337, the MS %R of Se was < the laboratory LAL but ≥10% and the MS %R of Ni was > the laboratory UAL. The associated Se sample result was an ND and, thus, was qualified UJ,I6a. The associated Ni sample result was a detect and, thus, was qualified J+,I6b. Also, the soil MS %Rs of Al, Ca, and Fe were > the laboratory UALs. However, the parent sample concentrations were >4X the spike concentrations. Based on professional judgment, no sample data were qualified.
- In the MB associated with the water sample, Mg and Mn were detected. The Mn sample result was a detect ≤5X the MB concentration and, thus, was qualified U,I4. The Mg sample result was a ND and, thus, was not qualified.
- In the CCB associated with the soil sample -7337, As and Tl were detected. The Tl sample result was a detect ≤5X the CCB concentration and, thus, was qualified U,I4b. The As sample result was a detect >5X the CCB concentration and, thus,


DATA VALIDATION COVER SHEET	
5118-1 Data Validation Cover Sheet	Records Use only 
<p>was not qualified. In the CCB associated with the water sample, Tl and K were detected. All associated sample results were detects $\leq 5X$ the CCB concentrations and, thus, were qualified U,I4b.</p> <p>4. In the FR blank, sample -7344, associated with all the soil samples, Al, Ba, Fe, and Na were detected. All associated sample results were detects $> 5X$ the FR blank concentrations and, thus, were not qualified.</p> <p>5. The soil duplicate sample RPDs of Ba, Ca, Cu, and V were $> 35\%$ and both the parent and duplicate sample results were $\geq 5X$ the PQL. All associated sample results were detects and, thus, were qualified J,I10a.</p> <p>6. It should be noted that the matrix QC analyses for all the water batches and the soil CVAA batch were performed on LANL samples from other RNs and that the raw data for the parent samples were not included in the data package. No sample data were qualified as a result.</p> <p>Reviewed by: <u>Monica Dymerski</u> Level I Date: <u>03/17/10</u></p>	
<p>VALIDATOR'S SIGNATURE: <u><i>David Schwant</i></u> DATE: <u>03/17/10</u></p>	
Form 5118-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

METALS ANALYTICAL DATA VALIDATION CHECKLIST	
5118-2	Records Use only
<div style="display: flex; justify-content: space-between;"> <div> Metals Analytical Data Validation Checklist </div> <div>  </div> </div>	


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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	22. The associated matrix spike recovery was $< 10\%$. Follow the external laboratory limits located within the associated data package.	R, I6	R, I6
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	23. The associated matrix spike recovery was $< \text{the LAL}$ but $> 10\%$. Follow the external laboratory limits located within the associated data package.	UJ, I6a	J+, I6a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24. The associated matrix spike recovery was $> \text{the UAL}$. Follow the external laboratory limits located within the associated data package.	UJ, I6b	J+, I6b

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

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. Required matrix spike information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If the LCS information is present, do not Reject. Qualify data based on the LCS information.	R, I6c	R, I6c
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	26. The sample and the duplicate sample results were $\geq 5X$ the RL and the duplicate RPD was $>20\%$ for water samples and $>35\%$ for soil samples.	UJ, I10a	J, I10a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The duplicate sample was not prepared and/or analyzed with the samples for unspecified reasons. The duplicate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	UJ, I10d	J, I10d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was $<10\%$. Follow the external laboratory limits located within the associated data package.	R, I12	R, I12
<input 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: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322001

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7332

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: SOIL

%SOLIDS: 93.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2220000	ug/Kg		6910	20300	20300	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-36-0	Antimony	1020	ug/Kg	U	335	1020	1020	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-38-2	Arsenic	1.22	mg/kg		0.208	1.04	1.04	2	MS	BAJ	03/05/10 00:42	100304-9	950262
7440-39-3	Barium R,16	127000	ug/Kg	*N	102	508	508	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-41-7	Beryllium	0.120	mg/kg		0.0208	0.104	0.104	2	MS	BAJ	03/03/10 22:11	100303-8	950262
7440-43-6	Cadmium	508	ug/Kg	U	102	508	508	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-70-2	Calcium J,110a	2370000	ug/Kg	*	8130	25400	25400	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-47-3	Chromium	14000	ug/Kg	*N	152	508	508	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-48-4	Cobalt	2140	ug/Kg		152	508	508	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-50-8	Copper J,110a	34600	ug/Kg	*N	305	1020	1020	1	P	HSC	03/02/10 20:56	030210-1	950257
7439-89-6	Iron	6930000	ug/Kg	*	8130	25400	25400	1	P	HSC	03/02/10 20:56	030210-1	950257
7439-92-1	Lead	32700	ug/Kg		254	1020	1020	1	P	HSC	03/02/10 20:56	030210-1	950257
7439-95-4	Magnesium	1130000	ug/Kg	*N	8640	30500	30500	1	P	HSC	03/02/10 20:56	030210-1	950257
7439-96-5	Manganese J-,16a	168000	ug/Kg	*N	203	1020	1020	1	P	HSC	03/02/10 20:56	030210-1	950257
7439-97-6	Mercury	12.2	ug/kg	U	4.16	12.2	12.2	1	AV	JXL	02/22/10 11:54	022210S1-14	951590
7440-02-0	Nickel	3.1	mg/kg	*N	0.104	0.416	0.416	2	MS	BAJ	03/03/10 22:11	100303-8	950262
7440-09-7	Potassium	535000	ug/Kg		6500	25400	25400	1	P	HSC	03/02/10 20:56	030210-1	950257
7782-49-2	Selenium	1.04	mg/kg	UN	0.52	1.04	1.04	2	MS	BAJ	03/05/10 00:42	100304-9	950262
7440-22-4	Silver	142	ug/Kg	J	102	508	508	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-23-5	Sodium J+,16b	134000	ug/Kg	N	7110	25400	25400	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-28-0	Thallium	0.208	mg/kg	U	0.0624	0.208	0.208	2	MS	PRB	03/05/10 13:02	100305-2	950262
7440-61-1	Uranium	1.27	mg/kg		0.0137	0.0416	0.0416	2	MS	BAJ	03/05/10 08:07	100304-13	950262
7440-62-2	Vanadium J,110a	20200	ug/Kg	*	102	508	508	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-66-6	Zinc	27200	ug/Kg		335	1020	1020	1	P	HSC	03/02/10 20:56	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.526	g	50	mL	02/13/10	LYH1
950262	950260	SW846 3050B	0.514	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.524	g	30	mL	02/19/10	TXB3

DJS
03/17/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322002

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7333

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: SOIL

%SOLIDS: 94.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4990000	ug/Kg		7190	21100	21100	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-36-0	Antimony	1060	ug/Kg	U	349	1060	1060	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-38-2	Arsenic	1.2	mg/kg		0.202	1.01	1.01	2	MS	BAJ	03/05/10 01:00	100304-9	950262
7440-39-3	Barium R,16	75600	ug/Kg	*N	106	528	528	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-41-7	Beryllium	0.614	mg/kg		0.0202	0.101	0.101	2	MS	BAJ	03/03/10 22:42	100303-8	950262
7440-43-9	Cadmium	528	ug/Kg	U	106	528	528	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-70-2	Calcium J,110a	4310000	ug/Kg	*	8450	26400	26400	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-47-3	Chromium	8580	ug/Kg	*N	158	528	528	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-48-4	Cobalt	3740	ug/Kg		158	528	528	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-50-8	Copper J,110a	8590	ug/Kg	*N	317	1060	1060	1	P	HSC	03/02/10 21:44	030210-1	950257
7439-89-6	Iron	10900000	ug/Kg	*	8450	26400	26400	1	P	HSC	03/02/10 21:44	030210-1	950257
7439-92-1	Lead	8210	ug/Kg		264	1060	1060	1	P	HSC	03/02/10 21:44	030210-1	950257
7439-95-4	Magnesium	1260000	ug/Kg	*N	8980	31700	31700	1	P	HSC	03/02/10 21:44	030210-1	950257
7439-96-5	Manganes J-,16a	222000	ug/Kg	*N	211	1060	1060	1	P	HSC	03/02/10 21:44	030210-1	950257
7439-97-6	Mercury	10.8	ug/kg	U	3.67	10.8	10.8	1	AV	JXL	02/22/10 11:56	022210S1-14	951590
7440-02-0	Nickel	4.27	mg/kg	*N	0.101	0.404	0.404	2	MS	BAJ	03/03/10 22:42	100303-8	950262
7440-09-7	Potassium	673000	ug/Kg		6760	26400	26400	1	P	HSC	03/02/10 21:44	030210-1	950257
7782-49-2	Selenium	1.01	mg/kg	UN	0.505	1.01	1.01	2	MS	BAJ	03/05/10 01:00	100304-9	950262
7440-22-4	Silver	390	ug/Kg	J	106	528	528	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-23-5	Sodium J+,16b	181000	ug/Kg	N	7400	26400	26400	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-28-0	Thallium	0.202	mg/kg	U	0.0606	0.202	0.202	2	MS	PRB	03/05/10 13:18	100305-2	950262
7440-61-1	Uranium	7.77	mg/kg		0.0133	0.0404	0.0404	2	MS	BAJ	03/05/10 08:16	100304-13	950262
7440-62-2	Vanadium J,110a	15700	ug/Kg	*	106	528	528	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-66-6	Zinc	26200	ug/Kg		349	1060	1060	1	P	HSC	03/02/10 21:44	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.502	g	50	mL	02/13/10	LYH1
950262	950260	SW846 3050B	0.525	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.589	g	30	mL	02/19/10	TXB3

DJS
03/17/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322003

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7336

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: SOIL

%SOLIDS: 92.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1080000	ug/Kg		7330	21600	21600	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-36-0	Antimony	1080	ug/Kg	U	356	1080	1080	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-38-2	Arsenic	1.53	mg/kg		0.212	1.06	1.06	2	MS	BAJ	03/05/10 01:11	100304-9	950262
7440-39-3	Barium R,16	23300	ug/Kg	*N	108	539	539	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-41-7	Beryllium	0.141	mg/kg		0.0212	0.106	0.106	2	MS	BAJ	03/03/10 22:48	100303-8	950262
7440-43-9	Cadmium	539	ug/Kg	U	108	539	539	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-70-2	Calcium J,110a	1400000	ug/Kg	*	8620	27000	27000	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-47-3	Chromium	6750	ug/Kg	*N	162	539	539	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-48-4	Cobalt	966	ug/Kg		162	539	539	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-50-8	Copper J,110a	7130	ug/Kg	*N	323	1080	1080	1	P	HSC	03/02/10 21:51	030210-1	950257
7439-89-6	Iron	3270000	ug/Kg	*	8620	27000	27000	1	P	HSC	03/02/10 21:51	030210-1	950257
7439-92-1	Lead	4330	ug/Kg		270	1080	1080	1	P	HSC	03/02/10 21:51	030210-1	950257
7439-95-4	Magnesium	487000	ug/Kg	*N	9160	32300	32300	1	P	HSC	03/02/10 21:51	030210-1	950257
7439-96-5	Manganese J-,16a	51300	ug/Kg	*N	216	1080	1080	1	P	HSC	03/02/10 21:51	030210-1	950257
7439-97-6	Mercury	10.8	ug/kg	U	3.67	10.8	10.8	1	AV	JXL1	02/22/10 11:58	02221051-14	951590
7440-02-0	Nickel	5.37	mg/kg	*N	0.106	0.424	0.424	2	MS	BAJ	03/03/10 22:48	100303-8	950262
7440-09-7	Potassium	235000	ug/Kg		6900	27000	27000	1	P	HSC	03/02/10 21:51	030210-1	950257
7782-49-2	Selenium	1.06	mg/kg	UN	0.531	1.06	1.06	2	MS	BAJ	03/05/10 01:11	100304-9	950262
7440-22-4	Silver	539	ug/Kg	U	108	539	539	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-23-5	Sodium J+,16b	87000	ug/Kg	N	7550	27000	27000	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-28-0	Thallium	0.212	mg/kg	U	0.0637	0.212	0.212	2	MS	PRB	03/05/10 13:20	100305-2	950262
7440-61-1	Uranium	2.39	mg/kg		0.014	0.0424	0.0424	2	MS	BAJ	03/05/10 08:21	100304-13	950262
7440-62-2	Vanadium J,110a	5860	ug/Kg	*	108	539	539	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-66-6	Zinc	9390	ug/Kg		356	1080	1080	1	P	HSC	03/02/10 21:51	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.5	g	50	mL	02/13/10	LYH1
950262	950260	SW846 3050B	0.508	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.6	g	30	mL	02/19/10	TXB3

DJS
03/17/10

METALS
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INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322004

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7337

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: SOIL

%SOLIDS: 94.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2710000	ug/Kg		6860	20200	20200	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-36-0	Antimony	1010	ug/Kg	U	333	1010	1010	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-38-2	Arsenic	1.55	mg/kg		0.207	1.03	1.03	2	MS	PRB	03/05/10 23:57	100305-4	960900
7440-39-3	Barium R,16	62500	ug/Kg	*N	101	505	505	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-41-7	Beryllium	0.189	mg/kg		0.0207	0.103	0.103	2	MS	PRB	03/05/10 23:57	100305-4	960900
7440-43-9	Cadmium	505	ug/Kg	U	101	505	505	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-70-2	Calcium J,110a	6080000	ug/Kg	*	8070	25200	25200	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-47-3	Chromium	5790	ug/Kg	*N	151	505	505	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-48-4	Cobalt	4270	ug/Kg		151	505	505	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-50-8	Copper J,110a	4320	ug/Kg	*N	303	1010	1010	1	P	HSC	03/02/10 21:58	030210-1	950257
7439-89-6	Iron	7410000	ug/Kg	*	8070	25200	25200	1	P	HSC	03/02/10 21:58	030210-1	950257
7439-92-1	Lead	3670	ug/Kg		252	1010	1010	1	P	HSC	03/02/10 21:58	030210-1	950257
7439-95-4	Magnesium	1080000	ug/Kg	*N	8580	30300	30300	1	P	HSC	03/02/10 21:58	030210-1	950257
7439-96-5	Manganese J-,16a	129000	ug/Kg	*N	202	1010	1010	1	P	HSC	03/02/10 21:58	030210-1	950257
7439-97-6	Mercury	8.02	ug/kg	J	4.13	12.2	12.2	1	AV	JXL1	02/22/10 11:59	022210S1-14	951590
7440-02-0	Nickel J+,16b	4.1	mg/kg	*N	0.103	0.413	0.413	2	MS	PRB	03/05/10 23:57	100305-4	960900
7440-09-7	Potassium	507000	ug/Kg		6460	25200	25200	1	P	HSC	03/02/10 21:58	030210-1	950257
7782-49-2	Selenium UJ,16a	1.03	mg/kg	UN	0.516	1.03	1.03	2	MS	PRB	03/06/10 09:07	100305-7	960900
7440-22-4	Silver	108	ug/Kg	J	101	505	505	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-23-5	Sodium J+,16b	89800	ug/Kg	N	7060	25200	25200	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-28-0	Thallium U,14b	0.0899	mg/kg	J	0.062	0.207	0.207	2	MS	PRB	03/05/10 23:57	100305-4	960900
7440-61-1	Uranium	1.08	mg/kg		0.0136	0.0413	0.0413	2	MS	PRB	03/05/10 23:57	100305-4	960900
7440-62-2	Vanadium J,110a	12700	ug/Kg	*	101	505	505	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-66-6	Zinc	13300	ug/Kg		333	1010	1010	1	P	HSC	03/02/10 21:58	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.525	g	50	mL	02/13/10	LYH1
951590	951589	SW846 7471A Prep	0.523	g	30	mL	02/19/10	TXB3
960900	960899	SW846 3050B	0.513	g	50	mL	03/04/10	LYH1

DJS
03/17/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322005

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7334

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: SOIL

%SOLIDS: 78

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3710000	ug/Kg		8440	24800	24800	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-36-0	Antimony	1240	ug/Kg	U	410	1240	1240	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-38-2	Arsenic	0.802	mg/kg	J	0.257	1.28	1.28	2	MS	BAJ	03/05/10 01:15	100304-9	950262
7440-39-3	Barium R,16	53300	ug/Kg	*N	124	621	621	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-41-7	Beryllium	0.178	mg/kg		0.0257	0.128	0.128	2	MS	BAJ	03/03/10 23:12	100303-8	950262
7440-43-9	Cadmium	621	ug/Kg	U	124	621	621	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-70-2	Calcium J,110a	2960000	ug/Kg	*	9930	31000	31000	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-47-3	Chromium	25400	ug/Kg	*N	186	621	621	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-48-4	Cobalt	2740	ug/Kg		186	621	621	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-50-8	Copper J,110a	41300	ug/Kg	*N	372	1240	1240	1	P	HSC	03/02/10 22:05	030210-1	950257
7439-89-6	Iron	10400000	ug/Kg	*	9930	31000	31000	1	P	HSC	03/02/10 22:05	030210-1	950257
7439-92-1	Lead	16600	ug/Kg		310	1240	1240	1	P	HSC	03/02/10 22:05	030210-1	950257
7439-95-4	Magnesium	1290000	ug/Kg	*N	10600	37200	37200	1	P	HSC	03/02/10 22:05	030210-1	950257
7439-96-5	Manganese J,16a	220000	ug/Kg	*N	248	1240	1240	1	P	HSC	03/02/10 22:05	030210-1	950257
7439-97-6	Mercury	14.3	ug/kg	U	4.85	14.3	14.3	1	AV	JXL1	02/22/10 12:01	022210S1-14	951590
7440-02-0	Nickel	3.75	mg/kg	*N	0.128	0.513	0.513	2	MS	BAJ	03/03/10 23:12	100303-8	950262
7440-09-7	Potassium	709000	ug/Kg		7940	31000	31000	1	P	HSC	03/02/10 22:05	030210-1	950257
7782-49-2	Selenium	1.28	mg/kg	UN	0.642	1.28	1.28	2	MS	BAJ	03/05/10 01:15	100304-9	950262
7440-22-4	Silver	376	ug/Kg	J	124	621	621	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-23-5	Sodium J+,16b	157000	ug/Kg	N	8690	31000	31000	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-28-0	Thallium	0.257	mg/kg	U	0.077	0.257	0.257	2	MS	PRB	03/05/10 13:22	100305-2	950262
7440-61-1	Uranium	3.7	mg/kg		0.0169	0.0513	0.0513	2	MS	BAJ	03/05/10 08:22	100304-13	950262
7440-62-2	Vanadium J,110a	11200	ug/Kg	*	124	621	621	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-66-6	Zinc	38400	ug/Kg		410	1240	1240	1	P	HSC	03/02/10 22:05	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt/vol.	Units	Final wt/vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.517	g	50	mL	02/13/10	LYH1
950262	950260	SW846 3050B	0.5	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.54	g	30	mL	02/19/10	TXB3

DJS
03/17/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322006

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7335

LEVEL: Low

DATE RECEIVED 05-FEB-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	4520000	ug/Kg		7730	22700	22700	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-36-0	Antimony	1270	ug/Kg		375	1140	1140	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-38-2	Arsenic	1.24	mg/kg		0.225	1.13	1.13	2	MS	BAJ	03/05/10 01:18	100304-9	950262
7440-39-3	Barium R,16	50200	ug/Kg	*N	114	568	568	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-41-7	Beryllium	0.558	mg/kg		0.0225	0.113	0.113	2	MS	BAJ	03/03/10 23:19	100303-8	950262
7440-43-9	Cadmium	568	ug/Kg	U	114	568	568	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-70-2	Calcium J,110a	2810000	ug/Kg	*	9090	28400	28400	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-47-3	Chromium	3830	ug/Kg	*N	171	568	568	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-48-4	Cobalt	1350	ug/Kg		171	568	568	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-50-8	Copper J,110a	4020	ug/Kg	*N	341	1140	1140	1	P	HSC	03/02/10 22:12	030210-1	950257
7439-89-6	Iron	10200000	ug/Kg	*	9090	28400	28400	1	P	HSC	03/02/10 22:12	030210-1	950257
7439-92-1	Lead	6900	ug/Kg		284	1140	1140	1	P	HSC	03/02/10 22:12	030210-1	950257
7439-95-4	Magnesium	953000	ug/Kg	*N	9660	34100	34100	1	P	HSC	03/02/10 22:12	030210-1	950257
7439-96-5	Manganese J,16a	237000	ug/Kg	*N	227	1140	1140	1	P	HSC	03/02/10 22:12	030210-1	950257
7439-97-6	Mercury	8.04	ug/kg	J	4.41	13	13	1	AV	JXL1	02/22/10 12:03	022210S1-14	951590
7440-02-0	Nickel	3.42	mg/kg	*N	0.113	0.45	0.45	2	MS	BAJ	03/03/10 23:19	100303-8	950262
7440-09-7	Potassium	706000	ug/Kg		7280	28400	28400	1	P	HSC	03/02/10 22:12	030210-1	950257
7782-49-2	Selenium	1.13	mg/kg	UN	0.563	1.13	1.13	2	MS	BAJ	03/05/10 01:18	100304-9	950262
7440-22-4	Silver	296	ug/Kg	J	114	568	568	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-23-5	Sodium J+,16b	91900	ug/Kg	N	7960	28400	28400	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-28-0	Thallium	0.225	mg/kg	U	0.0675	0.225	0.225	2	MS	PRB	03/05/10 13:24	100305-2	950262
7440-61-1	Uranium	4.26	mg/kg		0.0149	0.045	0.045	2	MS	BAJ	03/05/10 08:24	100304-13	950262
7440-62-2	Vanadium J,110a	9920	ug/Kg	*	114	568	568	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-66-6	Zinc	34800	ug/Kg		375	1140	1140	1	P	HSC	03/02/10 22:12	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.5	g	50	mL	02/13/10	LYH1
950262	950260	SW846 3050B	0.505	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.526	g	30	mL	02/19/10	TXB3

DJS
03/17/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322007

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7338

LEVEL: Low

DATE RECEIVED 05-FEB-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	3850000	ug/Kg		8410	24700	24700	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-36-0	Antimony	3770	ug/Kg		408	1240	1240	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-38-2	Arsenic	1.62	mg/kg		0.225	1.13	1.13	2	MS	BAJ	03/05/10 01:22	100304-9	950262
7440-39-3	Barium R,16	63700	ug/Kg	*N	124	618	618	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-41-7	Beryllium	0.214	mg/kg		0.0225	0.113	0.113	2	MS	BAJ	03/03/10 23:25	100303-8	950262
7440-43-9	Cadmium	618	ug/Kg	U	124	618	618	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-70-2	Calcium J,110a	4520000	ug/Kg	*	9890	30900	30900	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-47-3	Chromium	14000	ug/Kg	*N	185	618	618	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-48-4	Cobalt	14000	ug/Kg		185	618	618	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-50-8	Copper J,110a	21700	ug/Kg	*N	371	1240	1240	1	P	HSC	03/02/10 22:19	030210-1	950257
7439-89-6	Iron	9010000	ug/Kg	*	9890	30900	30900	1	P	HSC	03/02/10 22:19	030210-1	950257
7439-92-1	Lead	370000	ug/Kg		309	1240	1240	1	P	HSC	03/02/10 22:19	030210-1	950257
7439-95-4	Magnesium	1580000	ug/Kg	*N	10500	37100	37100	1	P	HSC	03/02/10 22:19	030210-1	950257
7439-96-5	Manganese J-,16a	165000	ug/Kg	*N	247	1240	1240	1	P	HSC	03/02/10 22:19	030210-1	950257
7439-97-6	Mercury	13.1	ug/kg	U	4.46	13.1	13.1	1	AV	JXL	02/22/10 12:05	022210S1-14	951590
7440-02-0	Nickel	4.54	mg/kg	*N	0.113	0.451	0.451	2	MS	BAJ	03/03/10 23:25	100303-8	950262
7440-09-7	Potassium	845000	ug/Kg		7910	30900	30900	1	P	HSC	03/02/10 22:19	030210-1	950257
7782-49-2	Selenium	1.13	mg/kg	UN	0.563	1.13	1.13	2	MS	BAJ	03/05/10 01:22	100304-9	950262
7440-22-4	Silver	174	ug/Kg	J	124	618	618	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-23-5	Sodium J+,16b	169000	ug/Kg	N	8660	30900	30900	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-28-0	Thallium	0.225	mg/kg	U	0.0676	0.225	0.225	2	MS	PRB	03/05/10 13:27	100305-2	950262
7440-61-1	Uranium	3.8	mg/kg		0.0149	0.0451	0.0451	2	MS	BAJ	03/05/10 08:26	100304-13	950262
7440-62-2	Vanadium J,110a	16300	ug/Kg	*	124	618	618	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-66-6	Zinc	27200	ug/Kg		408	1240	1240	1	P	HSC	03/02/10 22:19	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.502	g	50	mL	02/13/10	LYHI
950262	950260	SW846 3050B	0.551	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.568	g	30	mL	02/19/10	TXB3

DJS
03/17/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322008

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7339

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2980000	ug/Kg		7800	22900	22900	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-36-0	Antimony	1150	ug/Kg	U	378	1150	1150	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-38-2	Arsenic	1.36	mg/kg		0.226	1.13	1.13	2	MS	BAJ	03/05/10 01:25	100304-9	950262
7440-39-3	Barium R,16	38000	ug/Kg	*N	115	573	573	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-41-7	Beryllium	0.480	mg/kg		0.0226	0.113	0.113	2	MS	BAJ	03/03/10 23:31	100303-8	950262
7440-43-9	Cadmium	573	ug/Kg	U	115	573	573	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-70-2	Calcium J,110a	928000	ug/Kg	*	9170	28700	28700	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-47-3	Chromium	2970	ug/Kg	*N	172	573	573	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-48-4	Cobalt	958	ug/Kg		172	573	573	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-50-8	Copper J,110a	3150	ug/Kg	*N	344	1150	1150	1	P	HSC	03/02/10 22:25	030210-1	950257
7439-89-6	Iron	7800000	ug/Kg	*	9170	28700	28700	1	P	HSC	03/02/10 22:25	030210-1	950257
7439-92-1	Lead	4940	ug/Kg		287	1150	1150	1	P	HSC	03/02/10 22:25	030210-1	950257
7439-95-4	Magnesium	576000	ug/Kg	*N	9750	34400	34400	1	P	HSC	03/02/10 22:25	030210-1	950257
7439-96-5	Manganese J-,16a	215000	ug/Kg	*N	229	1150	1150	1	P	HSC	03/02/10 22:25	030210-1	950257
7439-97-6	Mercury	13	ug/kg	U	4.42	13	13	1	AV	JXL1	02/22/10 12:06	022210S1-14	951590
7440-02-0	Nickel	3.21	mg/kg	*N	0.113	0.451	0.451	2	MS	BAJ	03/03/10 23:31	100303-8	950262
7440-09-7	Potassium	457000	ug/Kg		7340	28700	28700	1	P	HSC	03/02/10 22:25	030210-1	950257
7782-49-2	Selenium	1.13	mg/kg	UN	0.564	1.13	1.13	2	MS	BAJ	03/05/10 01:25	100304-9	950262
7440-22-4	Silver	310	ug/Kg	J	115	573	573	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-23-5	Sodium J+,16b	147000	ug/Kg	N	8030	28700	28700	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-28-0	Thallium	0.226	mg/kg	U	0.0677	0.226	0.226	2	MS	PRB	03/05/10 13:29	100305-2	950262
7440-61-1	Uranium	4.03	mg/kg		0.0149	0.0451	0.0451	2	MS	BAJ	03/05/10 08:27	100304-13	950262
7440-62-2	Vanadium J,110a	4890	ug/Kg	*	115	573	573	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-66-6	Zinc	32000	ug/Kg		378	1150	1150	1	P	HSC	03/02/10 22:25	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.503	g	50	mL	02/13/10	LYH1
950262	950260	SW846 3050B	0.511	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.532	g	30	mL	02/19/10	TXB3

DJS
03/17/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322009

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7342

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: SOIL

%SOLIDS: 94.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1840000	ug/Kg		6860	20200	20200	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-36-0	Antimony	1010	ug/Kg	U	333	1010	1010	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-38-2	Arsenic	0.820	mg/kg	J	0.207	1.03	1.03	2	MS	BAJ	03/05/10 01:29	100304-9	950262
7440-39-3	Barium R,16	55900	ug/Kg	*N	101	505	505	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-41-7	Beryllium	0.145	mg/kg		0.0207	0.103	0.103	2	MS	BAJ	03/03/10 23:37	100303-8	950262
7440-43-9	Cadmium	505	ug/Kg	U	101	505	505	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-70-2	Calcium J,110a	1980000	ug/Kg	*	8080	25200	25200	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-47-3	Chromium	9690	ug/Kg	*N	151	505	505	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-48-4	Cobalt	1590	ug/Kg		151	505	505	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-50-8	Copper J,110a	35900	ug/Kg	*N	303	1010	1010	1	P	HSC	03/02/10 22:32	030210-1	950257
7439-89-6	Iron	5560000	ug/Kg	*	8080	25200	25200	1	P	HSC	03/02/10 22:32	030210-1	950257
7439-92-1	Lead	33800	ug/Kg		252	1010	1010	1	P	HSC	03/02/10 22:32	030210-1	950257
7439-95-4	Magnesium	870000	ug/Kg	*N	8580	30300	30300	1	P	HSC	03/02/10 22:32	030210-1	950257
7439-96-5	Manganese J-,16a	146000	ug/Kg	*N	202	1010	1010	1	P	HSC	03/02/10 22:32	030210-1	950257
7439-97-6	Mercury	10.8	ug/kg	U	3.68	10.8	10.8	1	AV	JXL1	02/22/10 12:11	022210S1-14	951590
7440-02-0	Nickel	4.87	mg/kg	*N	0.103	0.413	0.413	2	MS	BAJ	03/03/10 23:37	100303-8	950262
7440-09-7	Potassium	476000	ug/Kg		6460	25200	25200	1	P	HSC	03/02/10 22:32	030210-1	950257
7782-49-2	Selenium	1.03	mg/kg	UN	0.516	1.03	1.03	2	MS	BAJ	03/05/10 01:29	100304-9	950262
7440-22-4	Silver	175	ug/Kg	J	101	505	505	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-23-5	Sodium J+,16b	119000	ug/Kg	N	7070	25200	25200	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-28-0	Thallium	0.207	mg/kg	U	0.062	0.207	0.207	2	MS	PRB	03/05/10 13:31	100305-2	950262
7440-61-1	Uranium	1.19	mg/kg		0.0136	0.0413	0.0413	2	MS	BAJ	03/05/10 08:29	100304-13	950262
7440-62-2	Vanadium J,110a	9520	ug/Kg	*	101	505	505	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-66-6	Zinc	22100	ug/Kg		333	1010	1010	1	P	HSC	03/02/10 22:32	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.525	g	50	mL	02/13/10	LYHI
950262	950260	SW846 3050B	0.513	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.588	g	30	mL	02/19/10	TXB3

DJS
03/17/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246323001

BASIS: As Received

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7344

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: WATER


%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	89.6	ug/L	J	68	200	200	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	03/04/10 05:45	100303-5	950326
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-39-3	Barium	1.1	ug/L	J	1	5	5	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	03/04/10 12:59	100304-6	950326
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	03/04/10 05:45	100303-5	950326
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	02/20/10 04:54	021910B-2	950319
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	02/17/10 23:02	021710B-1	950319
7439-89-6	Iron	75.8	ug/L	J	30	100	100	1	P	HSC	02/17/10 23:02	021710B-1	950319
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	03/04/10 05:45	100303-5	950326
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	02/17/10 23:02	021710B-1	950319
7439-96-5	Manganese U,14	2.4	ug/L	J	1	5	5	1	MS	BAJ	03/04/10 12:59	100304-6	950326
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JXL1	02/17/10 10:53	021710W2-7	951593
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-09-7	Potassium U,14b	133	ug/L	J	50	150	150	1	P	HSC	02/17/10 23:02	021710B-1	950319
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-23-5	Sodium	102	ug/L	J	100	300	300	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-28-0	Thallium U,14b	0.366	ug/L	J	0.3	1	1	1	MS	PRB	03/04/10 13:13	100304-3	950326
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	PRB	03/04/10 13:47	100304-4	950326
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	02/17/10 23:02	021710B-1	950319

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950319	950315	SW846 3005A	50	mL	50	mL	02/15/10	FGA
950326	950323	SW846 3005A	50	mL	50	mL	02/15/10	FGA
951593	951592	SW846 7470A Prep	20	mL	20	mL	02/16/10	TXB3

DJS
03/17/10

DATA VALIDATION COVER SHEET	
5120-1 Data Validation Cover Sheet	Records Use only 

Section I.

REQUEST NUMBER: 10-1565 VALIDATION DATE: 03/17/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: David Schwent 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 PESTICIDES/POLYCHLORINATED BIPHENYLS
<input checked="" type="checkbox"/> GENERAL CHEMISTRY	<input type="checkbox"/> RADIOCHEMISTRY	<input type="checkbox"/> LCMSMS HIGH EXPLOSIVES	
<input type="checkbox"/> OTHER (DESCRIBE): <u>Total CN only</u>			


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):


1. The analyses included multiple matrix QC samples. For each batch, the QC sample most comparable to the matrix of this RN was selected for data validation purposes, and the extraneous QC samples were not evaluated. Sample results were not qualified.

Reviewed by: Monica Dymerski **Level I** **Date:** 03/17/10


DATA VALIDATION COVER SHEET	
5120-1 Data Validation Cover Sheet	Records Use only  Los Alamos NATIONAL LABORATORY EST. 1943
VALIDATOR'S SIGNATURE: <u>David Schwartz</u> DATE: <u>03/17/10</u>	
Form 5120-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

GENERAL CHEMISTRY ANALYTICAL DATA VALIDATION CHECKLIST	
5120-2 General Chemistry Analytical Data Validation Checklist	Records Use only  Los Alamos NATIONAL LABORATORY EST. 1948

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 (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				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, 14a
<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, 14b	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, 14c	J, 14c
<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, 14d	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, 14e	R, 14e
<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, 16	R, 16
<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, 16a	J-, 16a
<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, 16b	J+, 16b
<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, 16c	R, 16c
<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, 110b	J, 110b

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

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

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7332
Sample ID: 246322001
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 6.46%

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	66.1	243	ug/kg	1	AXC2	02/15/10	1306	950196	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7333
Sample ID: 246322002
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 5.74%

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	72.1	265	ug/kg	1	AXC2	02/15/10	1313	950196	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7336
Sample ID: 246322003
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 7.24%

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	70.5	259	ug/kg	1	AXC2	02/15/10	1314	950196	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7337
Sample ID: 246322004
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 5.64%

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	63.2	232	ug/kg	1	AXC2	02/15/10	1315	950196	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7334
Sample ID: 246322005
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 22.1%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	80.8	297	ug/kg	1	AXC2	02/15/10	1315	950196	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7335
Sample ID: 246322006
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 12%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	69.0	254	ug/kg	1	AXC2	02/15/10	1316	950196	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7338
Sample ID: 246322007
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 19.4%

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	81.2	298	ug/kg	1	AXC2	02/15/10	1317	950196	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7339
Sample ID: 246322008
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 13.3%

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	U	ND	74.0	272	ug/kg	1	AXC2	02/15/10	1318	950196	1
----------------	---	----	------	-----	-------	---	------	----------	------	--------	---

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7342
Sample ID: 246322009
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 5.65%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
-----------	-----------	--------	----	----	-------	----	---------	------	------	-------	--------

Flow Injection Analysis

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	69.3	255	ug/kg	1	AXC2	02/15/10	1319	950196	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 17, 2010

Client SDG: 10-1565-1

Client Sample ID: RE15-10-7344
Sample ID: 246323001
Matrix: W
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	02/11/10	1032	949511	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/11/10	0838	949509

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Wednesday, February 03, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1565

LOS ALAMOS

REQUEST NUMBER: 10-1565

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/5/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

046322, 046323

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7332	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7333	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7336	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7337	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7334	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7335	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7338	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7339	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7344	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-7344	1	POLY	SW-846.6850	Ice	W
RE15-10-7344	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-7342	1	POLY	Met+U+CLO4+CN	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Wednesday, February 03, 2010
LOS ALAMOS
NATIONAL LABORATORY

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

These Samples are on:
LANL Request Number: 10-1565
Per Agreement Number: 126310011
Project Cost Code: MR3A05529E00

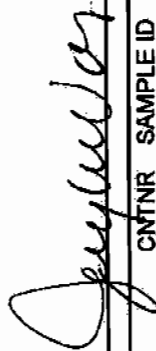
Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/3/2010
TURNAROUND/REPORT DUE: 3/5/2010
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	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7334	R	2/1/2010	
		1	RE15-10-7335	R	2/1/2010	
		1	RE15-10-7336	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	
		1	RE15-10-7338	R	2/1/2010	
		1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	

Wednesday, February 03, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE15-10-7344	W	2/1/2010	
	SW-846:6850	1	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7334	R	2/1/2010	
		1	RE15-10-7335	R	2/1/2010	
		1	RE15-10-7336	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	
		1	RE15-10-7338	R	2/1/2010	
		1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	
		1	RE15-10-7344	W	2/1/2010	
	SW-846:7470A	1	RE15-10-7344	W	2/1/2010	
	SW-846:7471A	1	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7334	R	2/1/2010	
		1	RE15-10-7335	R	2/1/2010	
		1	RE15-10-7336	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	
		1	RE15-10-7338	R	2/1/2010	
		1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	
	SW-846:9012A	1	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7334	R	2/1/2010	
		1	RE15-10-7335	R	2/1/2010	
		1	RE15-10-7336	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	
		1	RE15-10-7338	R	2/1/2010	

Page 3 of 3

REQUEST NUMBER: 10-1565

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9012A	1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	
		1	RE15-10-7344	W	2/1/2010	

Final Page of REQUEST NUMBER 10-1565



February 10, 2010

Ms. Joylene Valdez
Los Alamos National Laboratory
PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545Re: LANL ER Project
Work Order: 246322 246323
SDG: 10-1565

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 05, 2010, and analyzed for General Chemistry, Metals and Perchlorates by LCMSMS. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Sincerely,

Valerie Davis
Project ManagerPurchase Order: 72733-001-09
Chain of Custody: 10-1565
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 246322 and 246323
SDG: 10-1565

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Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 246322 and 246323
SDG # : 10-1565**

February 10, 2010

Laboratory Identification:

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

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on February 05, 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:

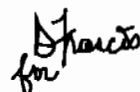
<u>Laboratory ID</u>	<u>Client ID</u>
246322001	RE15-10-7332
246322002	RE15-10-7333
246322003	RE15-10-7336
246322004	RE15-10-7337
246322005	RE15-10-7334
246322006	RE15-10-7335
246322007	RE15-10-7338
246322008	RE15-10-7339
246322009	RE15-10-7342
246323001	RE15-10-7344

Case Narrative

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

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

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



Valerie Davis
Project Manager

List of current GEL Certifications as of 10 February 2010

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

Chain of Custody and Supporting Documentation

Wednesday, February 03, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1565

LOS ALAMOS

REQUEST NUMBER: 10-1565

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/5/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

046322, 046323

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE15-10-7332	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7333	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7336	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7337	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7334	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7335	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7338	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7339	1	POLY	Met+U+CLO4+CN	Ice	R
RE15-10-7344	1	POLY	METALS+U-GEL	Nitric Acid	W
RE15-10-7344	1	POLY	SW-846:6850	Ice	W
RE15-10-7344	1	POLY	TCN	Sodium Hydroxide	W
RE15-10-7342	1	POLY	Met+U+CLO4+CN	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Wednesday, February 03, 2010

LOS ALAMOS
NATIONAL LABORATORY

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

These Samples are on:

LANL Request Number: 10-1565

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/3/2010

TURNAROUND/REPORT DUE: 3/5/2010

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	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7334	R	2/1/2010	
		1	RE15-10-7335	R	2/1/2010	
		1	RE15-10-7336	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	
		1	RE15-10-7338	R	2/1/2010	
		1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	

Wednesday, February 03, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE15-10-7344	W	2/1/2010	
	SW-846:6850	1	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7334	R	2/1/2010	
		1	RE15-10-7335	R	2/1/2010	
		1	RE15-10-7336	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	
		1	RE15-10-7338	R	2/1/2010	
		1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	
		1	RE15-10-7344	W	2/1/2010	
	SW-846:7470A	1	RE15-10-7344	W	2/1/2010	
	SW-846:7471A	1	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7334	R	2/1/2010	
		1	RE15-10-7335	R	2/1/2010	
		1	RE15-10-7336	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	
		1	RE15-10-7338	R	2/1/2010	
		1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	
	SW-846:9012A	1	RE15-10-7332	R	2/1/2010	
		1	RE15-10-7333	R	2/1/2010	
		1	RE15-10-7334	R	2/1/2010	
		1	RE15-10-7335	R	2/1/2010	
		1	RE15-10-7336	R	2/1/2010	
		1	RE15-10-7337	R	2/1/2010	
		1	RE15-10-7338	R	2/1/2010	

Wednesday, February 03, 2010

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:9012A	1	RE15-10-7339	R	2/1/2010	
		1	RE15-10-7342	R	2/1/2010	
		1	RE15-10-7344	W	2/1/2010	

Final Page of REQUEST NUMBER 10-1565



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCOC/Work Order: 10-1565		
Received By: Patricia Dover-Dent			Date Received: February 5, 2009		
Suspected Hazard Information		Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.	
COC/Samples marked as radioactive?			X	Maximum Counts Observed*: 80 CPM	
Classified Radioactive II by RSO?			X		
COC/Samples marked containing PCBs?			X		
Shipped as a DOT Hazardous?			X	Hazard Class Shipped: UN#:	
Samples identified as Foreign Soil?			X		

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2 Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other (describe) 3-6 9-14C
3 Chain of custody documents included with shipment?	X			
4 Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5 Samples requiring chemical preservation at proper pH?	X			Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6 VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7 Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8 Samples received within holding time?	X			Id's and tests affected:
9 Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10 Date & time on COC match date & time on bottles?			X	Sample ID's affected: time written on containers, not on COC
11 Number of containers received match number indicated on COC?	X			Sample ID's affected:
12 COC form is properly signed in relinquished/received sections?	X			

Comments: FEDEX#S

7209 7849 9021 3C	7209 7849 8963 4C	7209 7849 8724 6C	7209 7849 8665 12C
7209 7849 9065 3C	7209 7849 8805 4C	7209 7849 9043 6C	7209 7849 8676 13C
7209 7849 9010 3C	7209 7849 8779 4C	7209 7849 8827 6C	7209 7849 9000 14C
7209 7849 8780 4C	7209 7849 8838 5C	7209 7849 9124 6C	
7209 7849 8735 4C	7209 7849 8816 5C	7209 7849 8941 9C	
7209 7849 8713 4C	7209 7849 8790 5C	7209 7849 8952 10C	
7209 7849 8746 4C	7209 7849 9054 6C	7209 7849 8687 11C	
7209 7849 8974 4C	7209 7849 8702 6C	7209 7849 8698 12C	

PM (or PMA) review: Initials

Date

2/6/10

ORIGIN ID: SOFA (505) 665-9988
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03

SHIP DATE: 04FEB10
ACTMCT: 62.0 LB MAN
CAD: 0014178/CAFE244

LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

VALERIE-DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 68010APR1A015AGNKO



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ORIGIN ID: SOFA (505) 665-9988
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03

SHIP DATE: 04FEB10
ACTMCT: 62.0 LB MAN
CAD: 0014178/CAFE2449

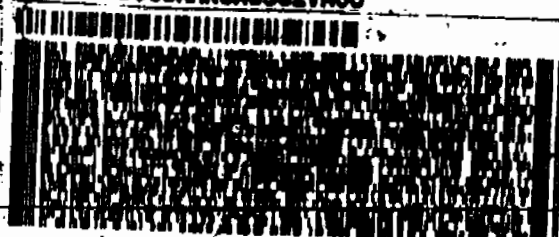
LOS ALAMOS, NM 87545
UNITED STATES US

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GENERAL ENGINEERING LAB
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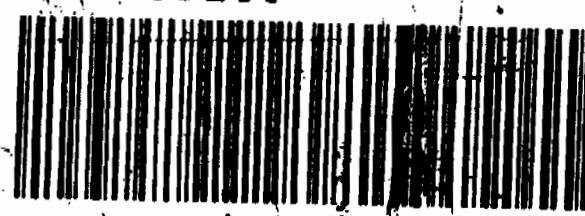


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ORIGIN ID: SOFA (505) 665-9988
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03

SHIP DATE: 04FEB10
ACTMCT: 66.0 LB MAN
CAD: 0014178/CAFE2449

LOS ALAMOS, NM 87545
UNITED STATES US

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ORIGIN ID: SOFA (505) 665-9988
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 03

SHIP DATE: 04FEB10
ACTMCT: 66.0 LB MAN
CAD: 0014178/CAFE2449

LOS ALAMOS, NM 87545
UNITED STATES US

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ALAMOS NATL LAB
9 BLDG 1237 DPU 83
ALAMOS, NM 87848
UNITED STATES US

ACTMGT: 46.0 LB-MAN
CRD: 8814176/CFE2449

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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 83

SHIP DATE: 04FEB10
ACTMGT: 50.0 LB-MAN
CRD: 8814176/CFE2449

LOS ALAMOS, NM 87848
UNITED STATES US

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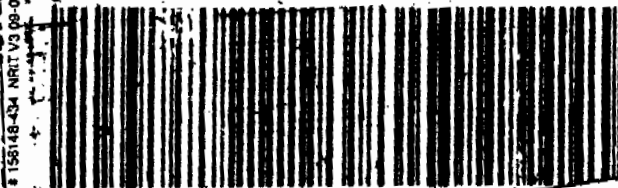


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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
BLDG 1237 DPU 83
ALAMOS, NM 87848
UNITED STATES US

VALERIE DAVIS
GENERAL ENGINEERING LAB
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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
BLDG 1237 DPU 83
LOS ALAMOS, NM 87848
UNITED STATES US

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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWT: 66.0 LB MAN
CAD: 0014176/CAFE2449

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWT: 57.0 LB MAN
CAD: 0014176/CAFE2449

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PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGS BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWT: 61.0 LB MAN
CAD: 0014176/CAFE2449

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

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWT: 56.0 LB MAN
CAD: 0014176/CAFE2449

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ORIGIN ID: SAFA (505) 555-9900
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWT: 49.0 LB MAN
CAD: 0014176/CAFE2449

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JOYLENE VALDEZ
LOS ALAMOS NATL LAB
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LOS ALAMOS, NM 87545
UNITED STATES US

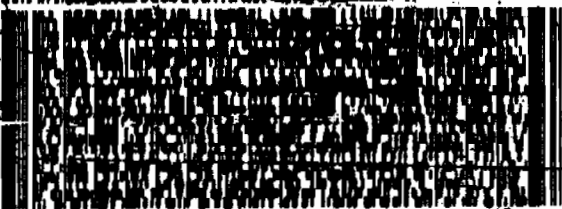
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2040 SAVAGE RD

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0201
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PRIORITY OVERNIGHT

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ORIGIN ID: SAFA (505) 555-9900
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWT: 60.0 LB MAN
CAD: 0014176/CAFE2449

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ORIGIN ID: SAFA (505) 555-9900
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGG BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWT: 57.0 LB MAN
CAD: 0014176/CAFE2449

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2040 SAVAGE RD

CHARLESTON SC 29407

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REF: 6B010AMR1A015AGMKO



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

ACTWGT: 50.0 LB MAN
CAD: 0014176/CAFE2449

BILL SENDER

JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
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CAD: 0014176/CAFE2449

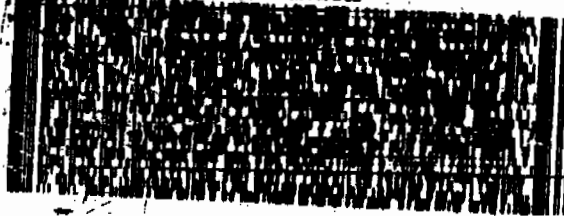
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VALERIE DAVIS
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(843) 566-8171
REF: 5B010AMR3A0520A00

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CHS

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

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REF: 5B010AMR3A0520A00

0014176/CAFE2449



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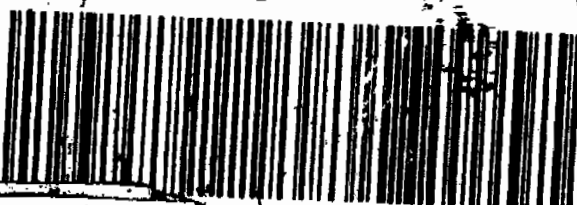


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FRI - 05FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

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ORIGIN ID: SAFA (505) 065-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
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CAD: 0014176/CAFE2449

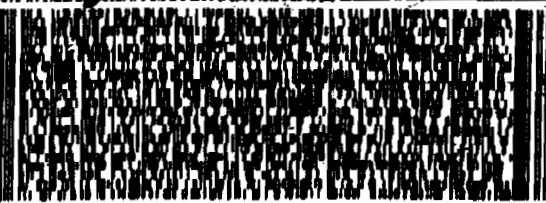
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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

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ORIGIN ID: SAFA (505) 065-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03

LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 04FEB10
ACTWGT: 48.0 LB MAN
CAD: 0014176/CAFE2449

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GENERAL ENGINEERING LAB
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VALERIE DAVIS
GENERAL ENGINEERING LAB
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2 of 3
TPSN 7209 7849 9000
Matr# 7209 7849 8996 0201

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 10-1565**

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: 952425

Prep Batch Number: 952422

Sample Analysis

Sample ID	Client ID
246322001	RE15-10-7332
246322002	RE15-10-7333
246322003	RE15-10-7336
246322004	RE15-10-7337
246322005	RE15-10-7334
246322006	RE15-10-7335
246322007	RE15-10-7338
246322008	RE15-10-7339
246322009	RE15-10-7342
1202041315	Interference Check Sample (ICS)
1202041311	Method Blank (MB)
1202041312	Laboratory Control Sample (LCS)
1202041313	246336001(RE15-10-8304) Matrix Spike (MS)
1202041314	246336001(RE15-10-8304) Matrix Spike Duplicate (MSD)

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

10-1565-PERLCMS

Page 1 of 4

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

Client sample 246336001 (RE15-10-8304) from SDG 10-1568-1 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Retention Time Standard Area Acceptance

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

10-1565-PERLCMS

Page 2 of 4

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: Stephen M. Mauer Date: 03/04/10

10-1565-PERLCMS

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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: 252422
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7332
 Date Received: 05-FEB-10
 GEL Job No (SDG): 10-1565
 GEL Sample ID: 246322001
 Date Filtered: 19-FEB-10
 Injection Volume (uL): 20
 %Solids: 93.5

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.535	2.14	0.535	ug/kg	U	1	28-FEB-10 21:03	per0228052a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:03	per0228052a
14797-73-0	Perchlorate-101	.535	2.14	0.535	ug/kg	U	1	28-FEB-10 21:03	per0228052a
	Perchlorate-O(18)			5.24	ug/kg		1	28-FEB-10 21:03	per0228052a

^ 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: 952422
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7333
 Date Received: 05-FEB-10
 GEL Job No (SDG): 10-1565
 GEL Sample ID: 246322002
 Date Filtered: 19-FEB-10
 Injection Volume (uL): 20
 %Solids: 94.3

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 21:12	per0228053a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:12	per0228053a
14797-73-0	Perchlorate-101	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 21:12	per0228053a
	Perchlorate-O(18)			5.19	ug/kg		1	28-FEB-10 21:12	per0228053a

[^] 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: 952422

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7336

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322003

Date Filtered: 19-FEB-10

Injection Volume (uL): 20

%Solids: 92.8

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.539	2.16	0.539	ug/kg	U	1	28-FEB-10 21:21	per0228054a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:21	per0228054a
14797-73-0	Perchlorate-101	.539	2.16	0.539	ug/kg	U	1	28-FEB-10 21:21	per0228054a
	Perchlorate-O(18)			5.21	ug/kg		1	28-FEB-10 21:21	per0228054a

[^] 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 I

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 952422

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7337

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322004

Date Filtered: 19-FEB-10

Injection Volume (uL): 20

%Solids: 94.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 21:30	per0228055a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:30	per0228055a
14797-73-0	Perchlorate-101	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 21:30	per0228055a
	Perchlorate-Q(18)			5.26	ug/kg		1	28-FEB-10 21:30	per0228055a

[^] 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

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Client Sample No.

RE15-10-7334

Lab Name: GEL Laboratories LLCLab Code: GELInstrument: LCMSMSDate Received: 05-FEB-10Method: SW846 6850 ModifiedGEL Job No (SDG): 10-1565Matrix: SOILGEL Sample ID: 246322005Extraction Batch ID: 952422Date Filtered: 19-FEB-10Extraction Type: Solid PrepInjection Volume (uL): 20Sample Volume/Weight: 2.00 g%Solids: 78Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.642	2.57	0.642	ug/kg	U	1	28-FEB-10 21:39	per0228056a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:39	per0228056a
14797-73-0	Perchlorate-101	.642	2.57	0.642	ug/kg	U	1	28-FEB-10 21:39	per0228056a
	Perchlorate-O(18)			7.32	ug/kg		1	28-FEB-10 21:39	per0228056a

[^] 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: 952422
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-7335
 Date Received: 05-FEB-10
 GEL Job No (SDG): 10-1565
 GEL Sample ID: 246322006
 Date Filtered: 19-FEB-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	.568	2.27	0.568	ug/kg	U	1	28-FEB-10 21:48	per0228057a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:48	per0228057a
14797-73-0	Perchlorate-101	.568	2.27	0.568	ug/kg	U	1	28-FEB-10 21:48	per0228057a
	Perchlorate-O(18)			5.60	ug/kg		1	28-FEB-10 21:48	per0228057a

[^] 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: 252422

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7338

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322007

Date Filtered: 19-FEB-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	.621	2.48	0.621	ug/kg	U	1	28-FEB-10 21:57	per0228058a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:57	per0228058a
14797-73-0	Perchlorate-101	.621	2.48	0.621	ug/kg	U	1	28-FEB-10 21:57	per0228058a
	Perchlorate-O(18)			6.23	ug/kg		1	28-FEB-10 21:57	per0228058a

[^] 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: 952422

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7339

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322008

Date Filtered: 19-FEB-10

Injection Volume (uL): 20

% Solids: 87

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.577	2.31	0.577	ug/kg	U	1	28-FEB-10 22:33	per0228062a
	Perchlorate Isotope Ratio						1	28-FEB-10 22:33	per0228062a
14797-73-0	Perchlorate-101	.577	2.31	0.577	ug/kg	U	1	28-FEB-10 22:33	per0228062a
	Perchlorate-O(18)			5.82	ug/kg		1	28-FEB-10 22:33	per0228062a

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

P perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 952422

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7342

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322009

Date Filtered: 19-FEB-10

Injection Volume (uL): 20

%Solids: 94.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 22:43	per0228063a
	Perchlorate Isotope Ratio						1	28-FEB-10 22:43	per0228063a
14797-73-0	Perchlorate-101	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 22:43	per0228063a
	Perchlorate-O(18)			5.09	ug/kg		1	28-FEB-10 22:43	per0228063a

[^] 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): 10-1565

Extract Batch Code: 952422

Date Filtered: 19-FEB-10

Matrix: SOIL

Sample ID: 1202041312

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.07	ug/kg	103		70 - 130
Perchlorate Isotope Ratio		3.22				-
Perchlorate-101	2.00	2.05	ug/kg	103		70 - 130
Perchlorate-O(18)		5.16	ug/kg			-

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

Perchlorate Interference Check Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-1565

Extract Batch Code: 952422

Date Filtered: 19-FEB-10

Matrix: SOIL

Sample ID: 1202041315

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.19	ug/kg	110		70 - 130
Perchlorate Isotope Ratio		3.27				
Perchlorate-101	2.00	2.14	ug/kg	107		70 - 130
Perchlorate-O(18)		5.18	ug/kg			

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228051a

Date: 28-Feb-2010

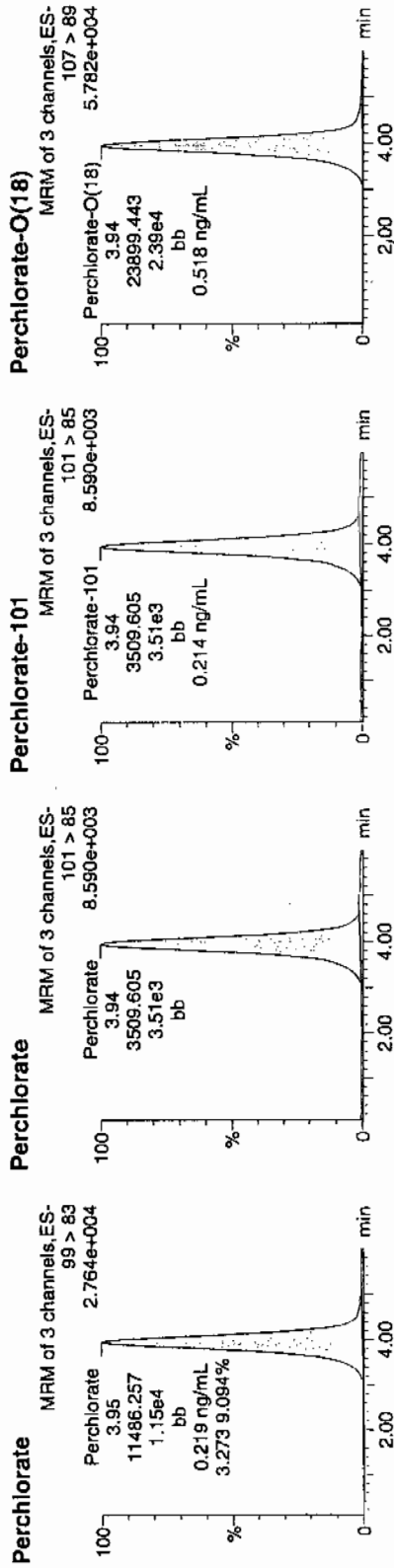
Time: 20:54:20

ID: 1202041315

Vial: 2:1,C

192041315 | 5020 | 7.5 | 11

03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ratio
1202041315	Perchlorate	99 > 83	3.95	11486.257	11486.257	bb			0.2194	109.70	9.70	1844.9...	3.27
1202041315	Perchlorate-101	101 > 85	3.94	3509.605	3509.605	bb			0.2139	106.97	6.97	1926.9...	
1202041315	Perchlorate-O(18)	107 > 89	3.94	23899.443	23899.443	bb			0.5181	103.62	3.62	3278.8...	

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-1565

Extract Batch Code: 952422

Date Extracted: 19-FEB-10

GEL MS/PS ID: 1202041313

Client ID: RE15-10-8304

GEL MSD/PSD ID: 1202041314

QC Type: MS

Compound^	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	2.51	0.140	ug/kg	2.77	105		2.8	106		1.04		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.15			3.09			0			-
Perchlorate-101	2.51	0.153	ug/kg	2.81	106		2.89	109		2.83		30	75 - 125
Perchlorate-O(18)	0	6.36	ug/kg	6.30			6.46			2.43			-

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

Comments:

Perchlorate Initial Calibration Blank

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1565

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-FEB-10	per0228001a	IPB001
Perchlorate-101	0.00	0	NA	28-FEB-10	per0228001a	IPB001
Perchlorate	0.00	0	NA	28-FEB-10	per0228002a	IPB001
Perchlorate-101	0.00	0	NA	28-FEB-10	per0228002a	IPB001

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

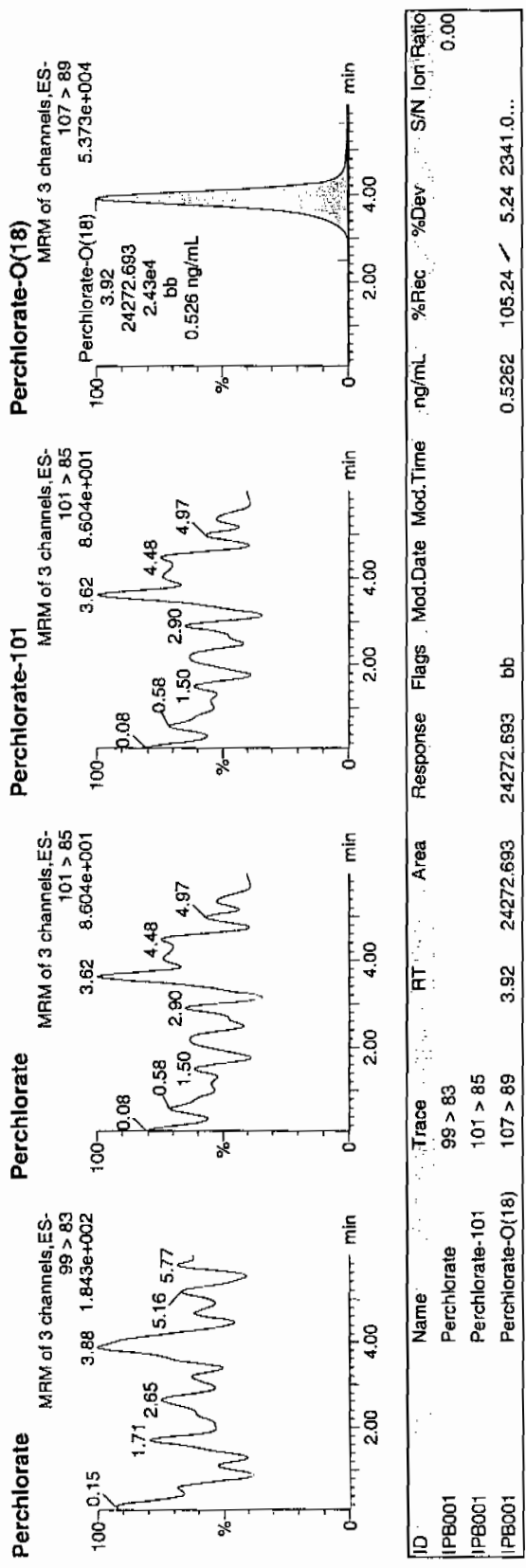
Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qtd

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per022810a.mdb 28 Feb 2010 14:26:41
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per022810a.cdb 01 Mar 2010 07:59:32

Name: per0228001a
Date: 28-Feb-2010
Time: 13:21:52
ID: IPB001
Vial: 1:1,A

03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83											
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	3.92	24272.693	24272.693	bb			0.5262	105.24	✓	5.24	2341.0...

1077
3/2/10

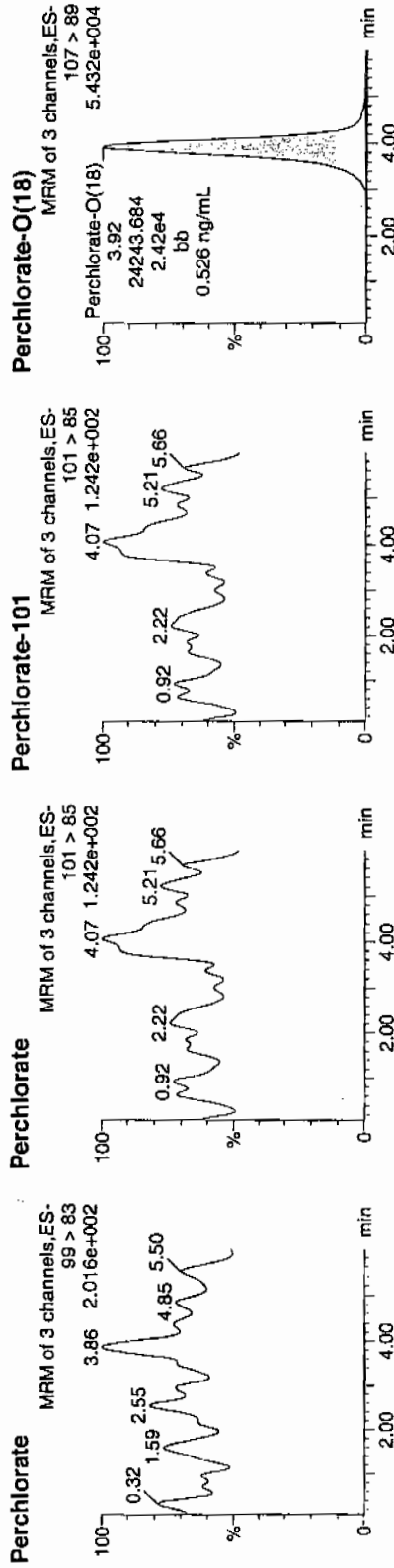
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228002a
Date: 28-Feb-2010
Time: 13:31:04
ID: IPB001
Vial: 1:1,A

03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83											
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	3.92	24243.684	24243.684	bb			0.5256	105.11	5.11	5966.8...	0.00

Perchlorate
3/2/10

Perchlorate Continuing Calibration Blank

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

GEL Job No.(SDG): 10-1565

Lab Name: General Engineering Laboratories

Lab Code: GEL

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

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	28-FEB-10	per0228008a	IPB002
Perchlorate-101	0.00	0	NA	28-FEB-10	per0228008a	IPB002
Perchlorate	0.00	0	NA	28-FEB-10	per0228010a	IPB003
Perchlorate-101	0.00	0	NA	28-FEB-10	per0228010a	IPB003
Perchlorate	0.00	0	NA	28-FEB-10	per0228017a	IPB004
Perchlorate-101	0.00	0	NA	28-FEB-10	per0228017a	IPB004
Perchlorate	0.00	0	NA	28-FEB-10	per0228027a	IPB005
Perchlorate-101	0.00	0	NA	28-FEB-10	per0228027a	IPB005
Perchlorate	0.00	0	NA	28-FEB-10	per0228037a	IPB006
Perchlorate-101	0.00	0	NA	28-FEB-10	per0228037a	IPB006
Perchlorate	0.00	0	NA	28-FEB-10	per0228047a	IPB007
Perchlorate-101	0.00	0	NA	28-FEB-10	per0228047a	IPB007
Perchlorate	0.00	0	NA	28-FEB-10	per0228060a	IPB008

Perchlorate Continuing Calibration Blank

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1565

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-FEB-10	per0228060a	IPB008
Perchlorate	0.00	0	NA	01-MAR-10	per0228073a	IPB009
Perchlorate-101	0.00	0	NA	01-MAR-10	per0228073a	IPB009

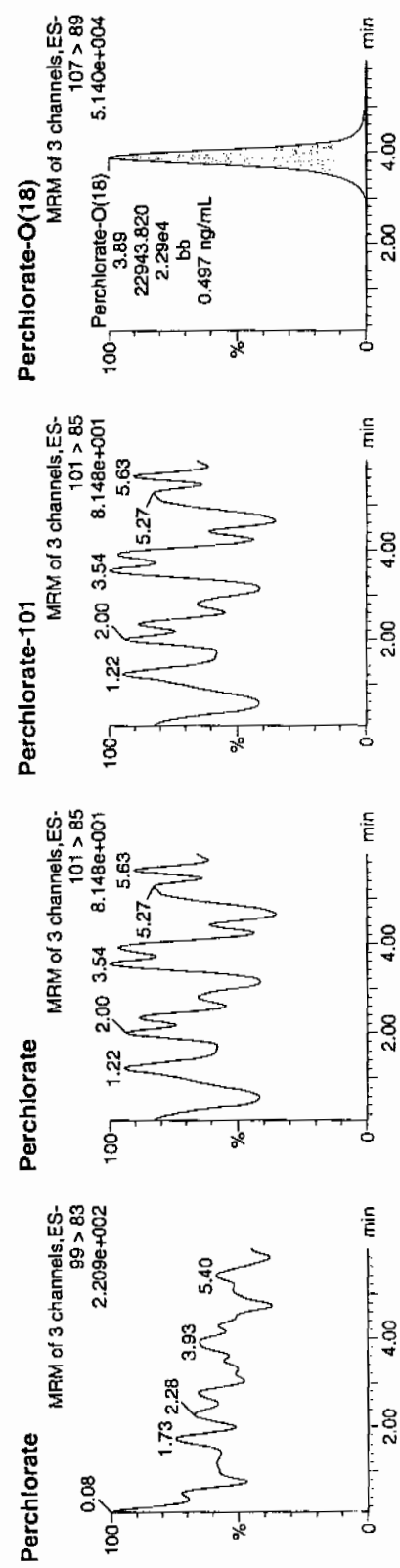
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228008a
Date: 28-Feb-2010
Time: 14:25:12
ID: IPB002
Vial: 1:1,A

03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB002	Perchlorate	99 > 83											0.00
IPB002	Perchlorate-101	101 > 85											
IPB002	Perchlorate-O(18)	107 > 89	3.89	22943.820	22943.820	bb			0.4974	99.47	-0.53	3703.4...	

10073
3/2/10

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

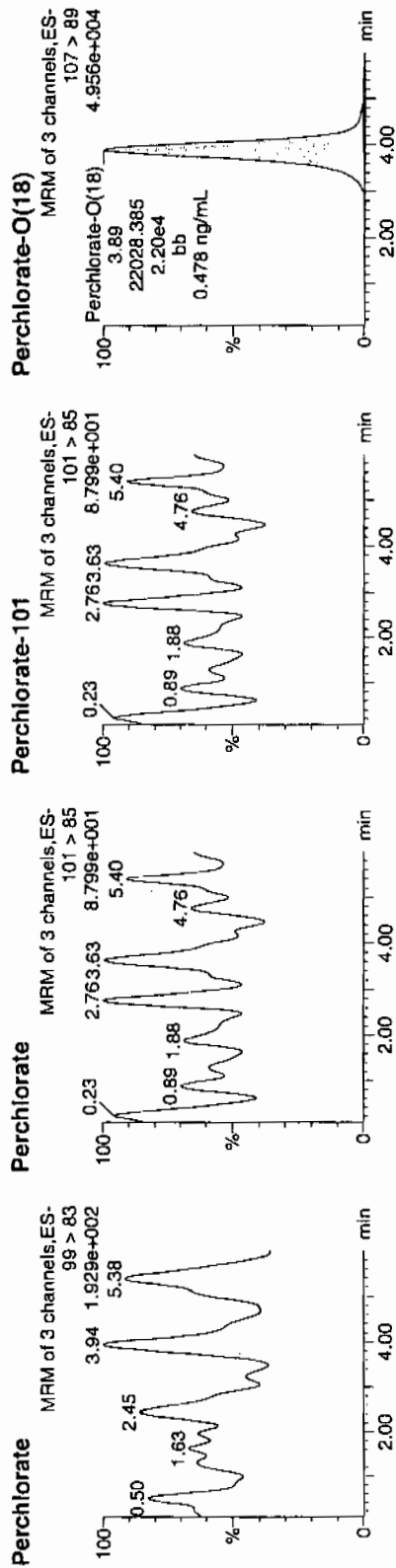
Page 10 of 86

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228010a
Date: 28-Feb-2010
Time: 14:43:16
ID: IPB003
Vial: 1:1,A

03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB003	Perchlorate	99 > 83											0.00
IPB003	Perchlorate-101	101 > 85											
IPB003	Perchlorate-O(18)	107 > 89	3.89	22028.385	22028.385	bb			0.4775	95.51	-4.49	1705.2...	

1607
3/2/10

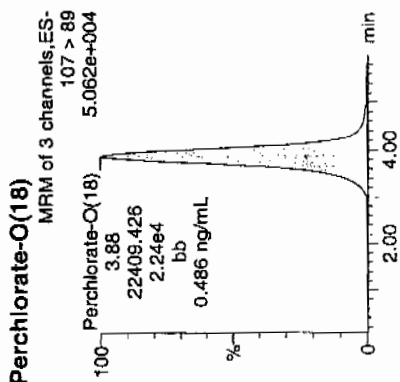
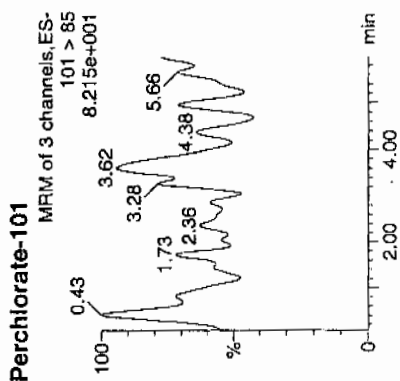
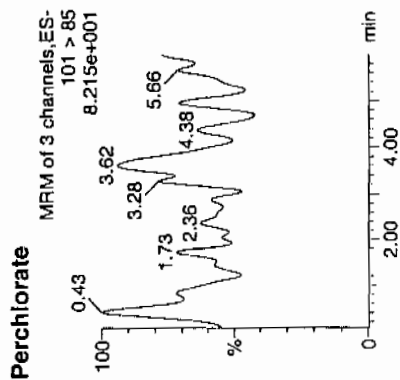
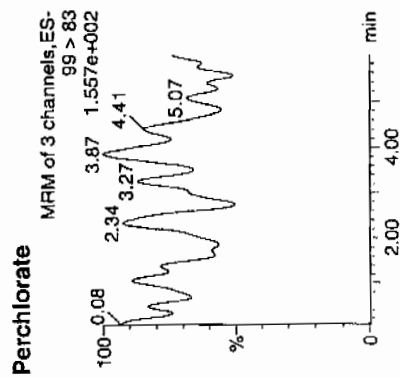
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228017a
Date: 28-Feb-2010
Time: 15:46:34
ID: IPB004
Vial: 1:1,A

02-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB004	Perchlorate	99 > 83											0.00
IPB004	Perchlorate-101	101 > 85											
IPB004	Perchlorate-O(18)	107 > 89	3.88	22409.426	22409.426	bb			0.4858	97.16	-2.84	9103.5...	

1.557
3/2/10

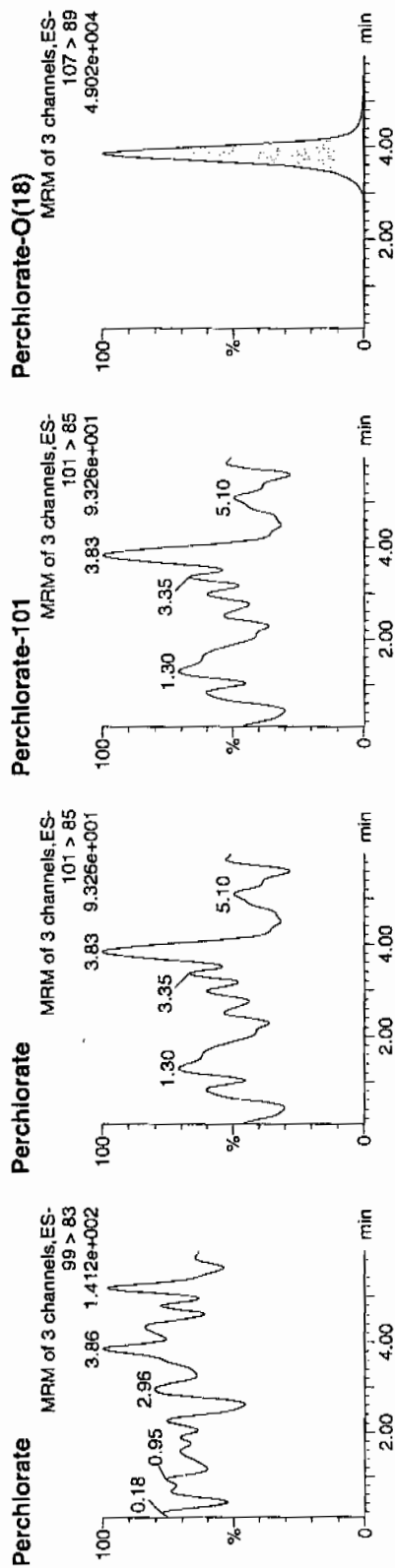
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228027a
Date: 28-Feb-2010
Time: 17:16:58
ID: IPB005
Vial: 1:1,A

03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB005	Perchlorate	99 > 83											0.00
IPB005	Perchlorate-101	101 > 85	3.83	21766.459	21766.459	bb			0.4718	94.37	-5.63	4172.5...	
IPB005	Perchlorate-O(18)	107 > 89											

NOT
3/2/10

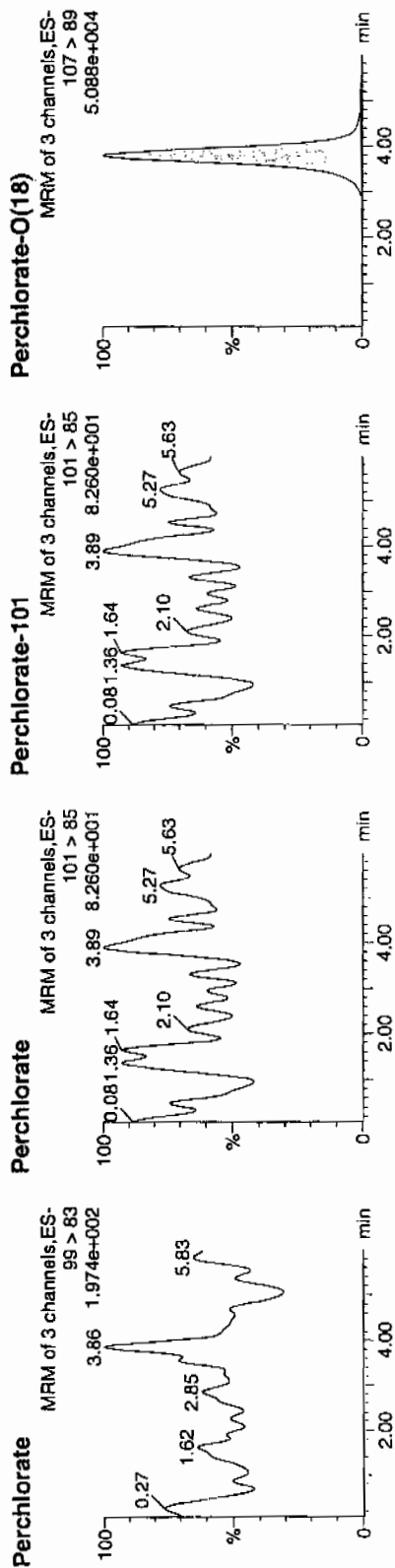
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228037a
Date: 28-Feb-2010
Time: 18:47:26
ID: IPB006
Vial: 1:1,A

03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB006	Perchlorate	99 > 83											0.00
IPB006	Perchlorate-101	101 > 85											
IPB006	Perchlorate-O(18)	107 > 89	3.81	21975.314	21975.314	bb			0.4764	95.28	-4.72	1409.5...	

not
3/2/10

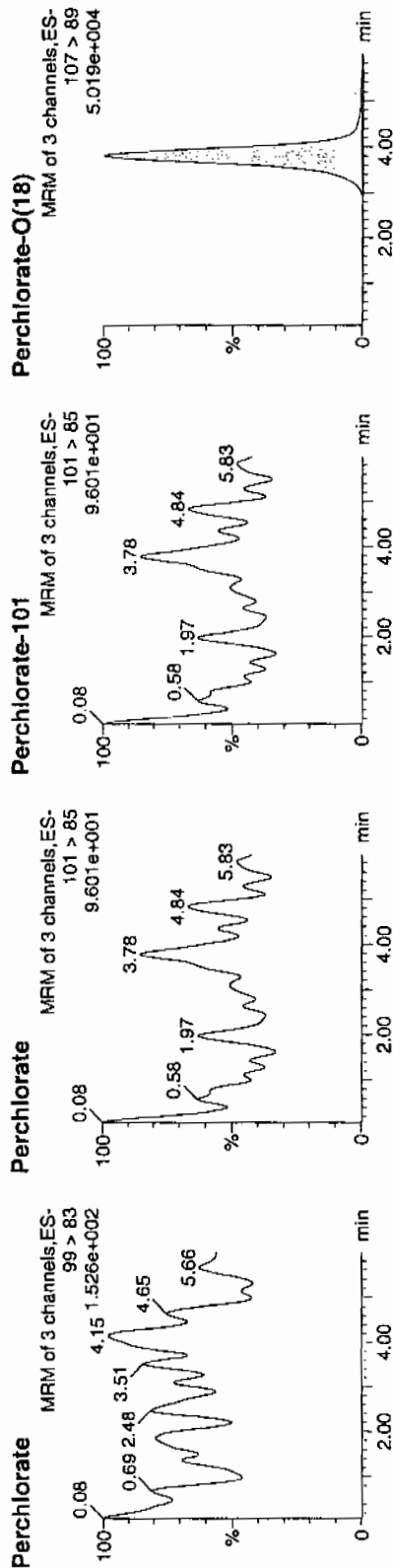
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228047a
Date: 28-Feb-2010
Time: 20:18:01
ID: IPB007
Vial: 1:1,A

02-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB007	Perchlorate	99 > 83											0.00
IPB007	Perchlorate-101	101 > 85	3.81	21695.666	21695.666	bb			0.4703	94.06	-5.94	7885.1...	
IPB007	Perchlorate-O(18)	107 > 89											

3/2/10

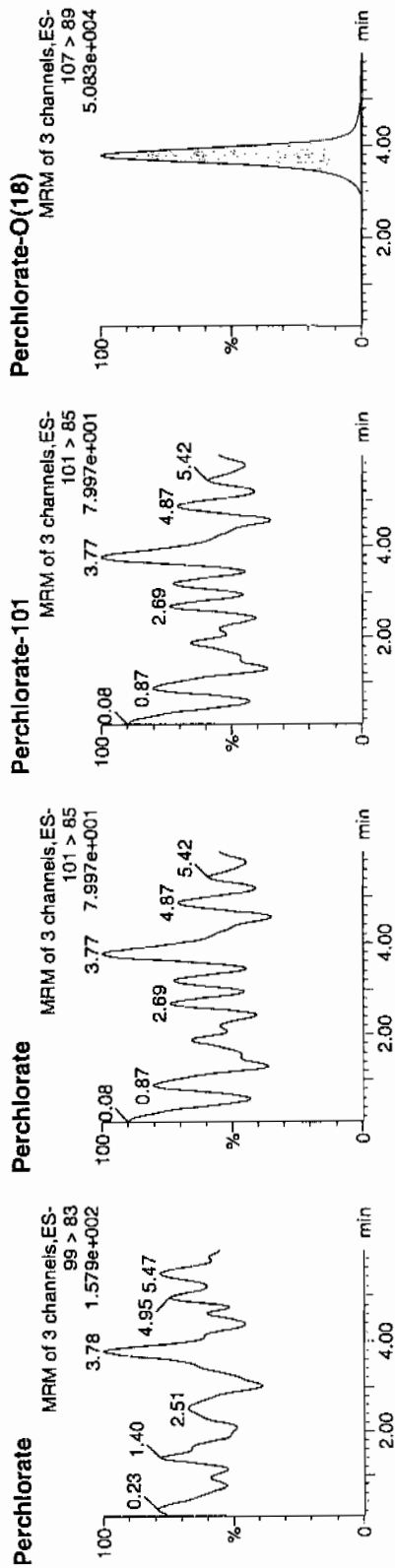
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228060a
Date: 28-Feb-2010
Time: 22:15:47
ID: IPB008
Vial: 1:1,A

03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec.	%Dev.	S/N	Ion Ratio
IPB008	Perchlorate	99 > 83											0.00
IPB008	Perchlorate-101	101 > 85	3.78	22080.910	22080.910	bb			0.4787	95.73	-4.27	1635.6...	
IPB008	Perchlorate-O(18)	107 > 89											

not
3/2/10

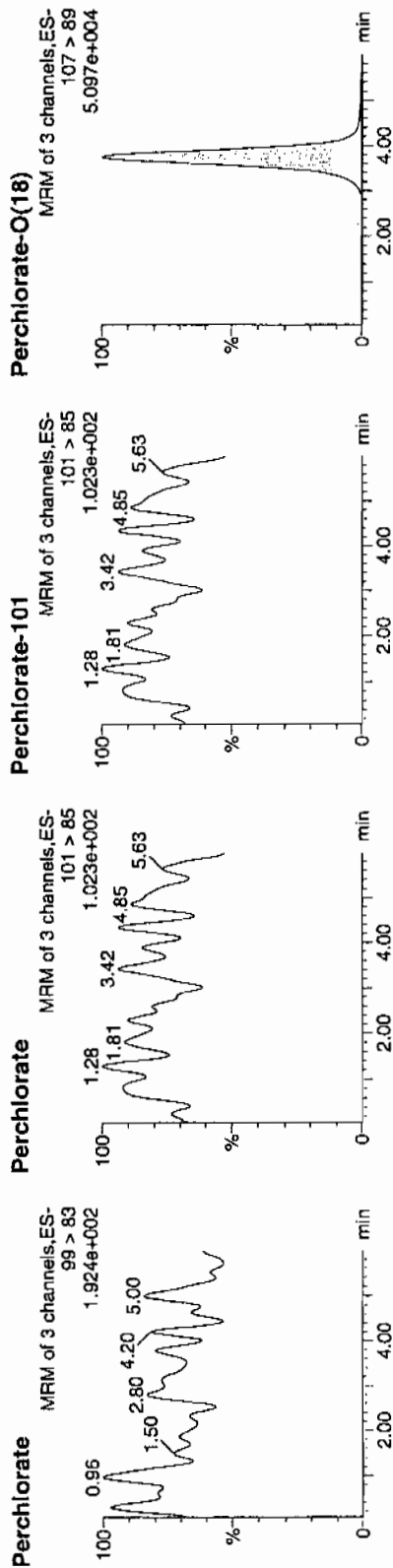
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228073a
Date: 01-Mar-2010
Time: 00:13:41
ID: IPB009
Vial: 1:1,A

00-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB009	Perchlorate	99 > 83											
IPB009	Perchlorate-101	101 > 85											
IPB009	Perchlorate-O(18)	107 > 89	3.74	21673.504	21673.504	bb			0.4698	93.97	-6.03	1537.0...	0.00

not
3/2/10

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

QUATRO ULTIMA: nairb_01_08_08.cal

Calibration Report - MS1 Static

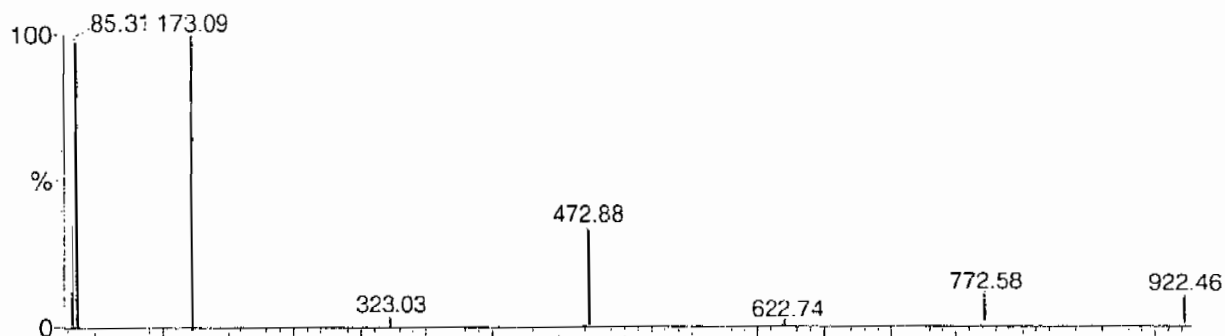
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

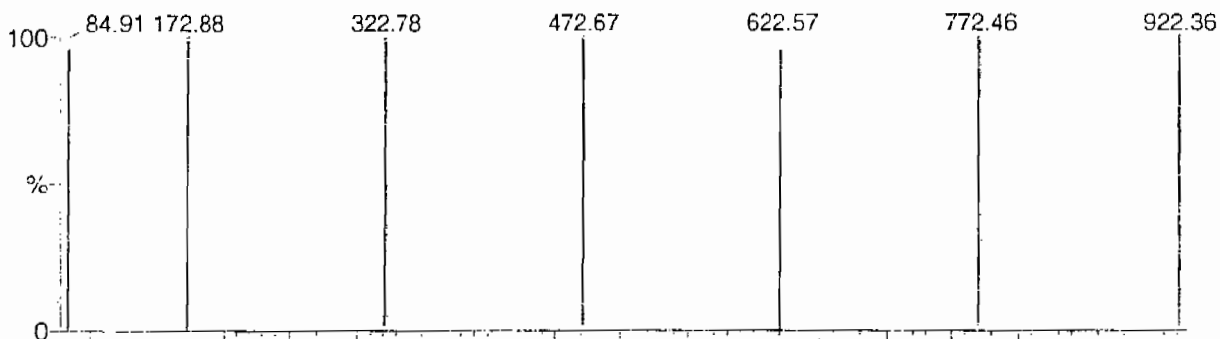
DATA HIGHLIGHTED BY CODED 01-01-08

Data file: STATMS1 - Uncalibrated

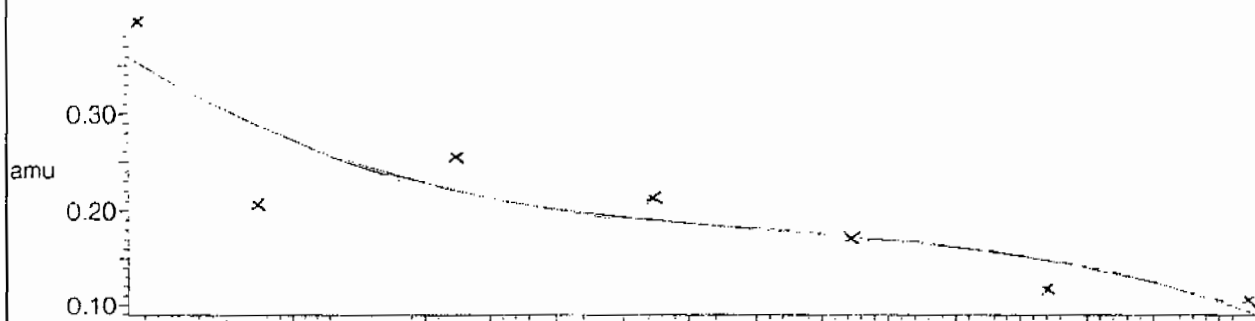
7 matches of 7 tested references



Reference file: Nairb

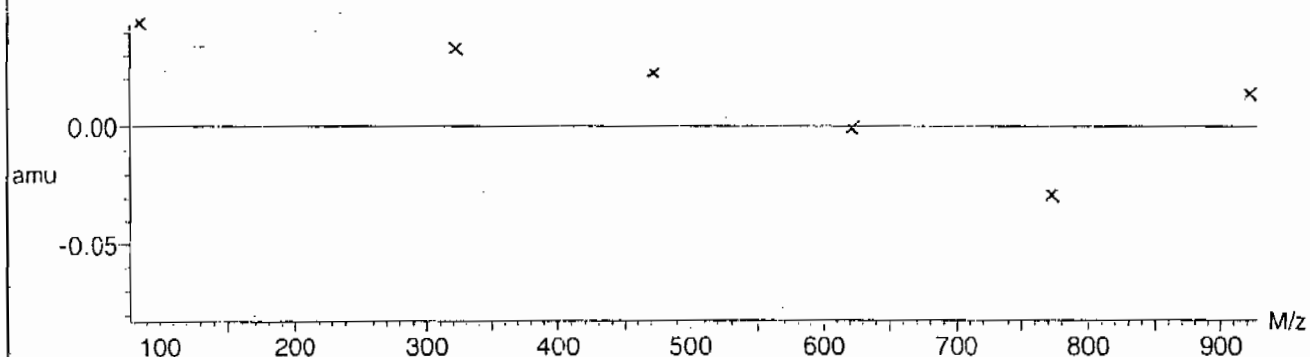


Mass difference (Raw - Ref mass)



Residuals

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



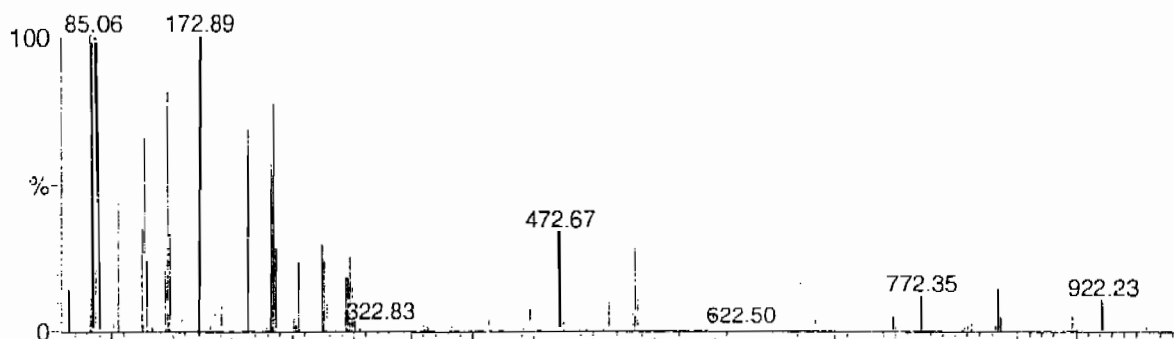
Calibration Report - MS1 Scanning

Page 1 of 1

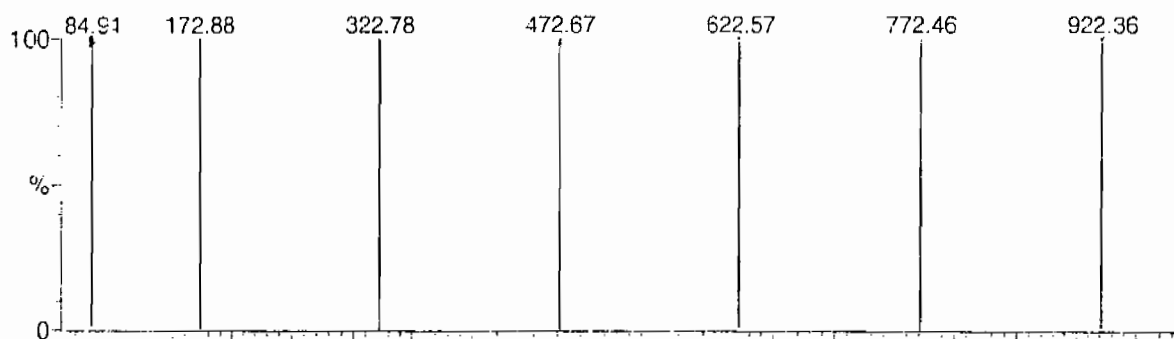
Printed: Tue Jan 08 12:20:09 2008

Data file: SCNMS1 - Uncalibrated

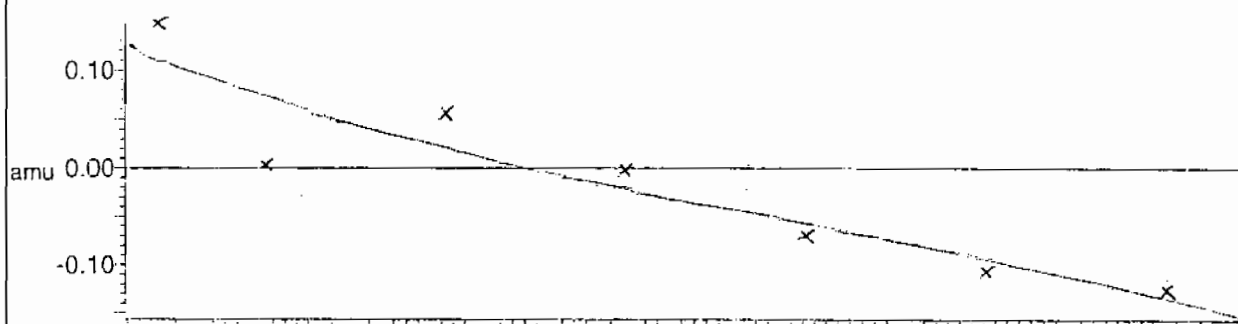
7 matches of 7 tested references



Reference file: Nairb

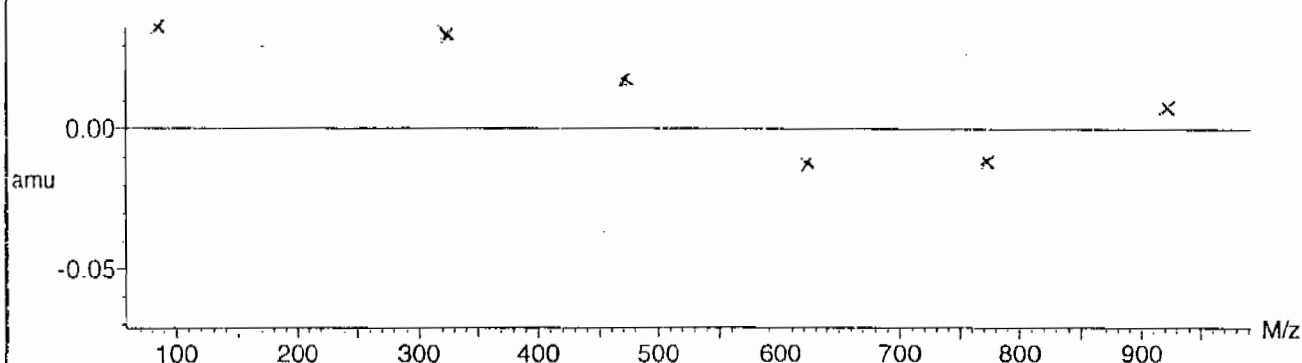


Mass difference (Raw - Ref mass)



Residuals

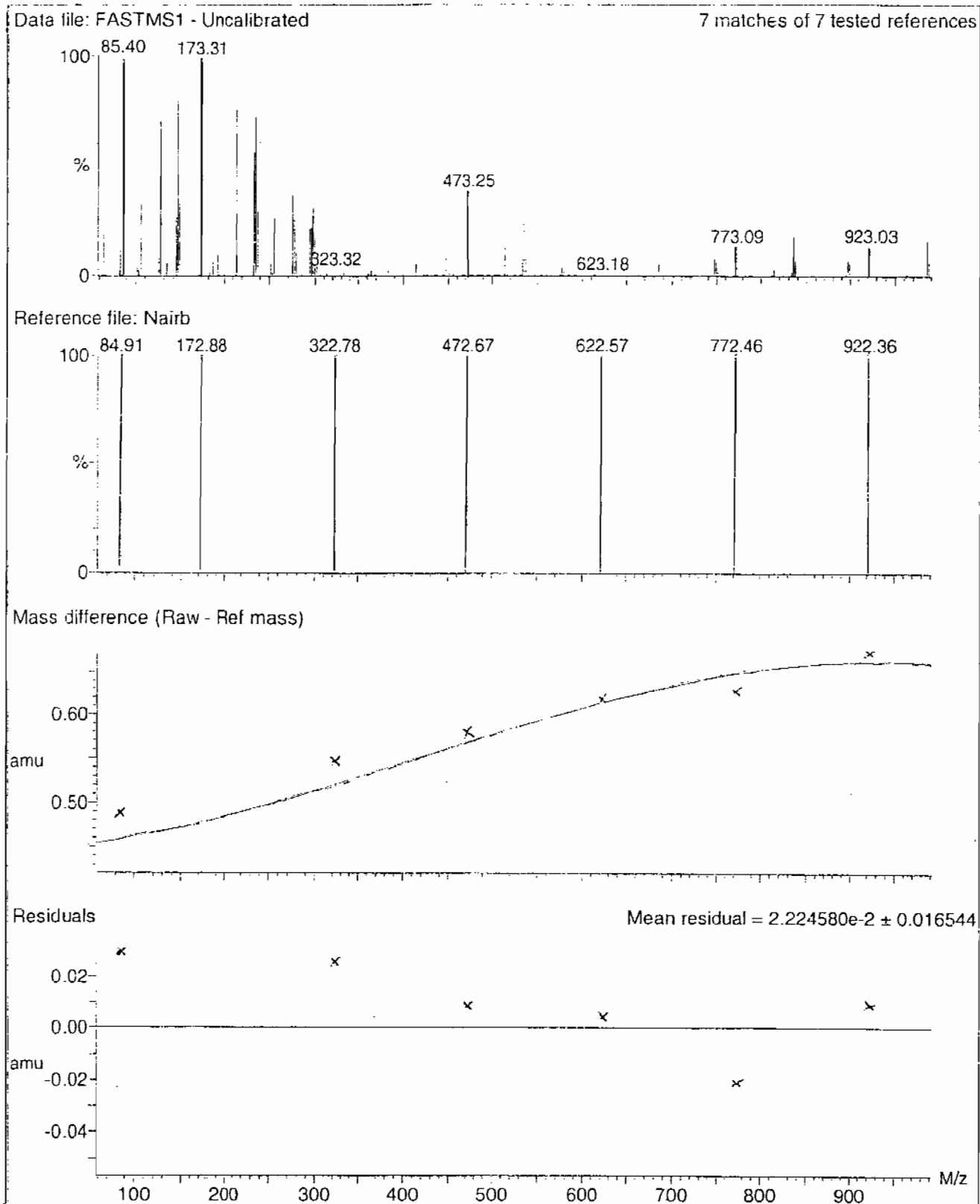
Mean residual = $2.732691 \times 10^{-2} \pm 0.020653$



Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

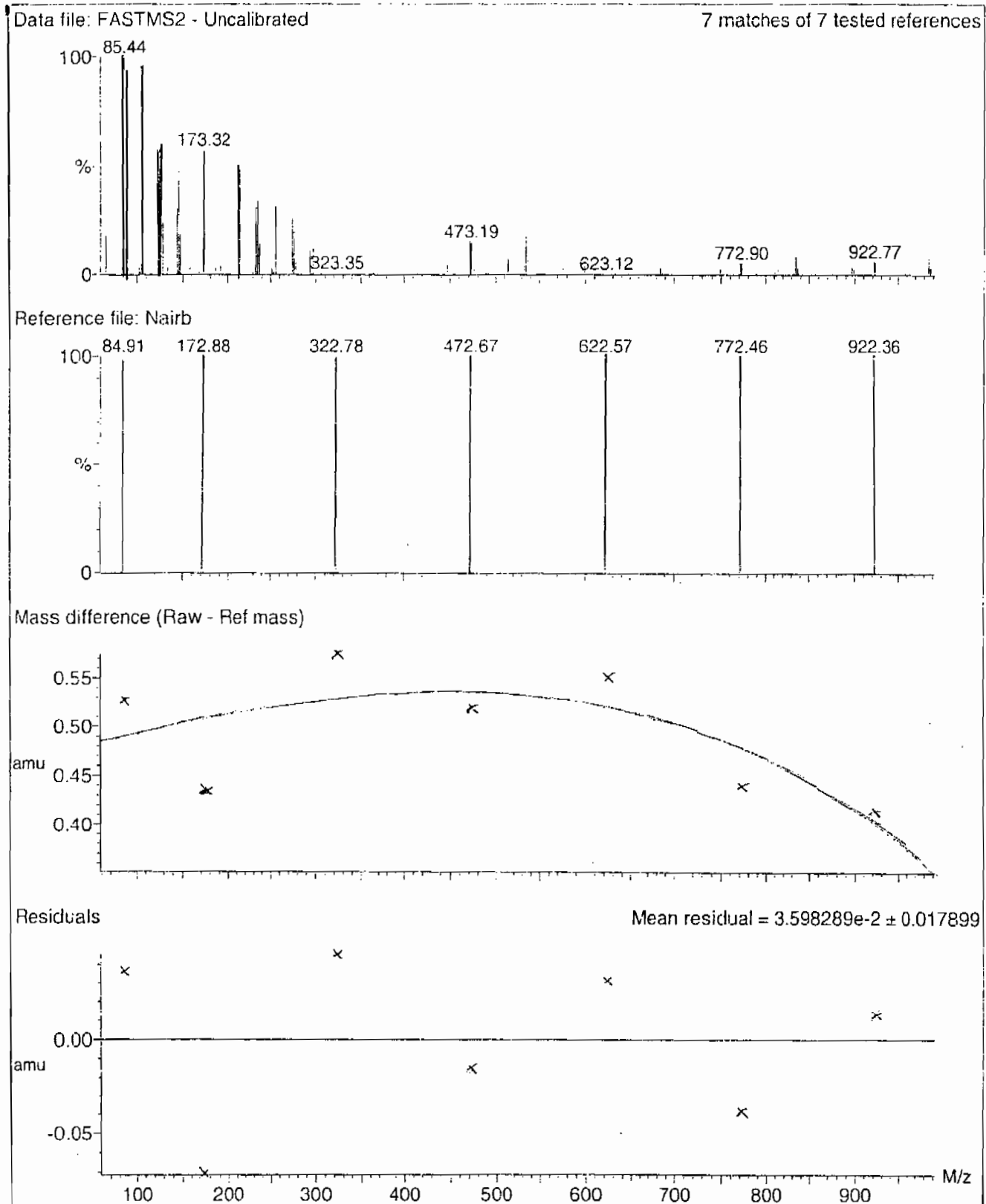
Printed: Tue Jan 08 12:21:04 2008



Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

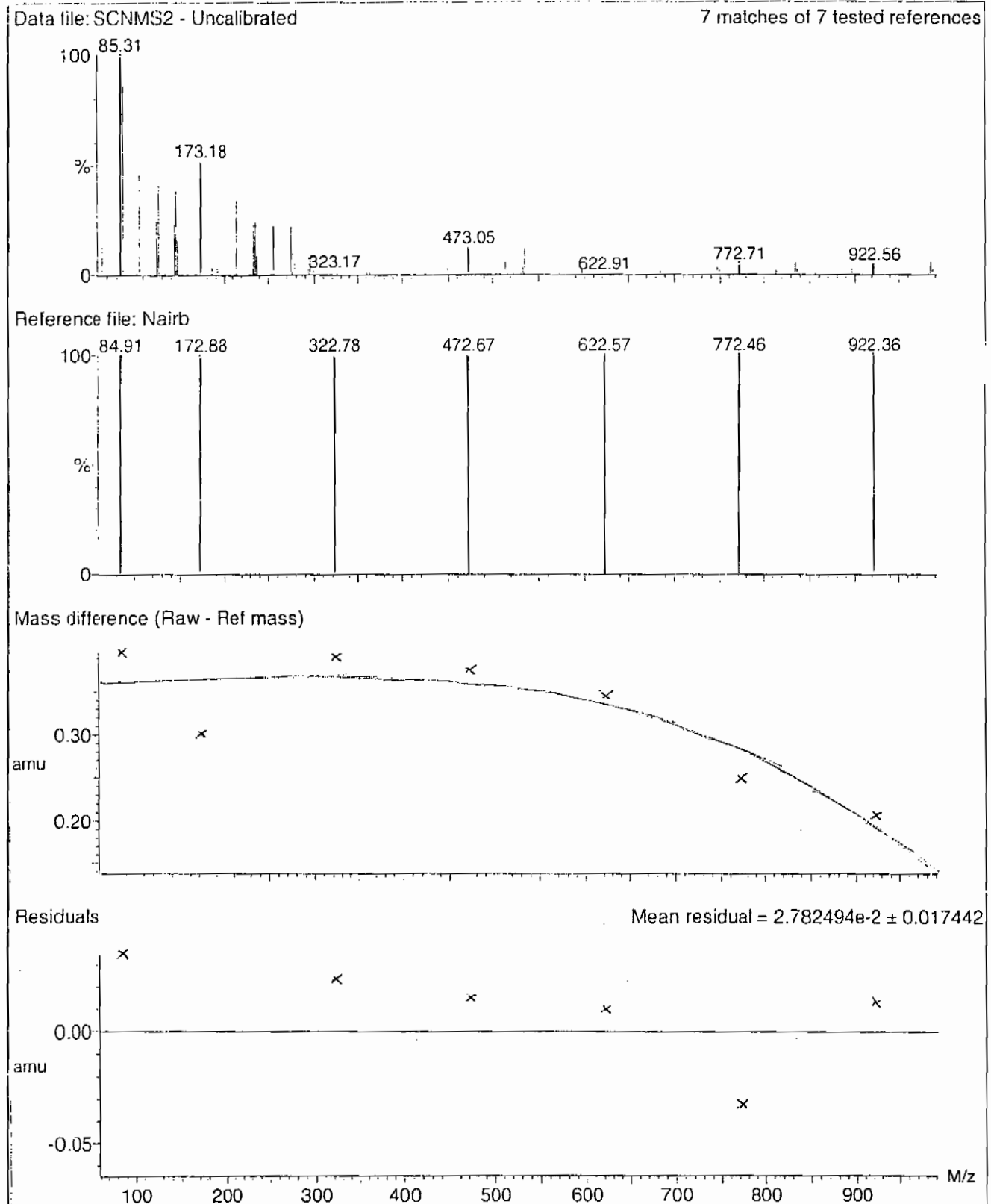
Printed: Tue Jan 08 12:23:51 2008



Calibration Report - MS2 Scanning

Page 1 of 1

Printed: Tue Jan 08 12:22:56 2008



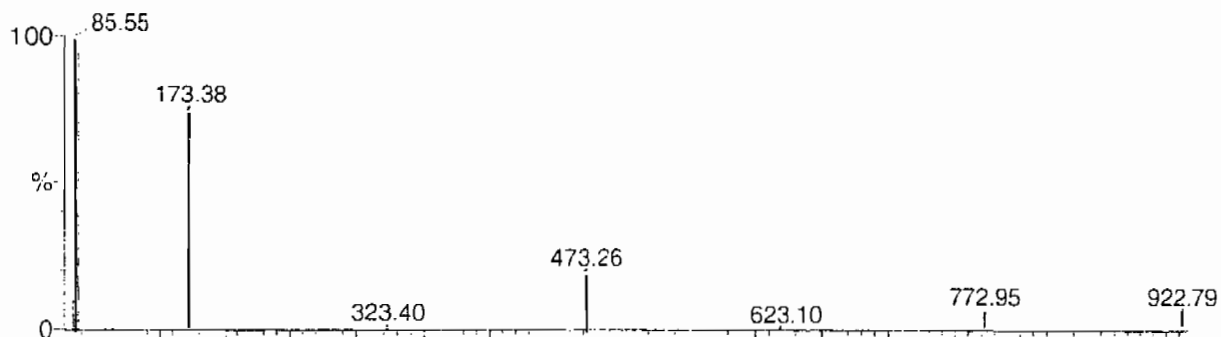
Calibration Report - MS2 Static

Page 1 of 1

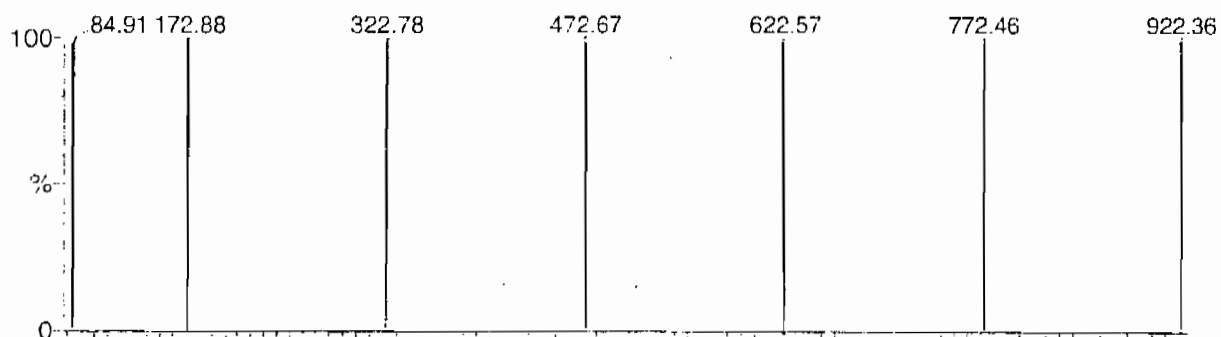
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Data file: STATMS2 - Uncalibrated

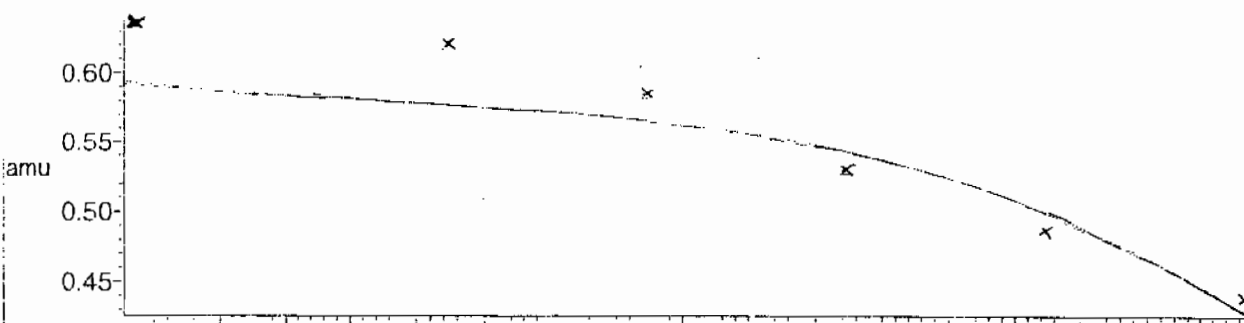
7 matches of 7 tested references



Reference file: Nairb

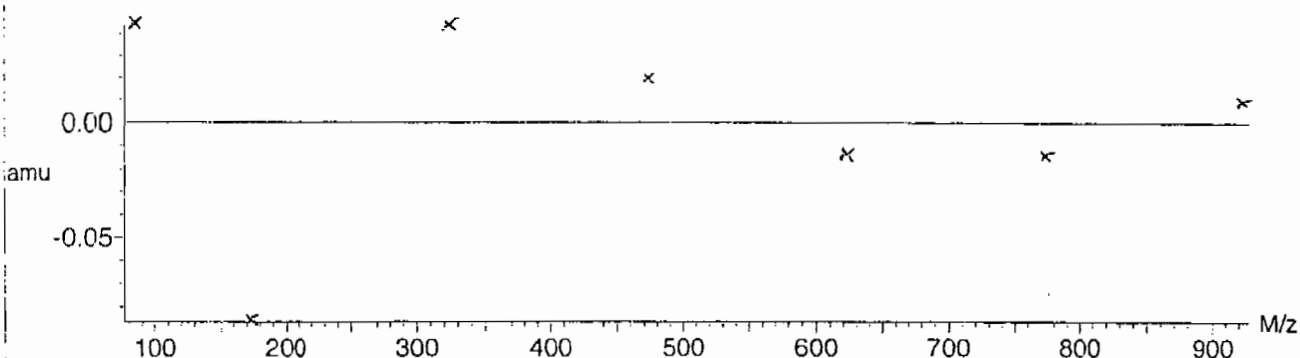


Mass difference (Raw - Ref mass)



Residuals

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



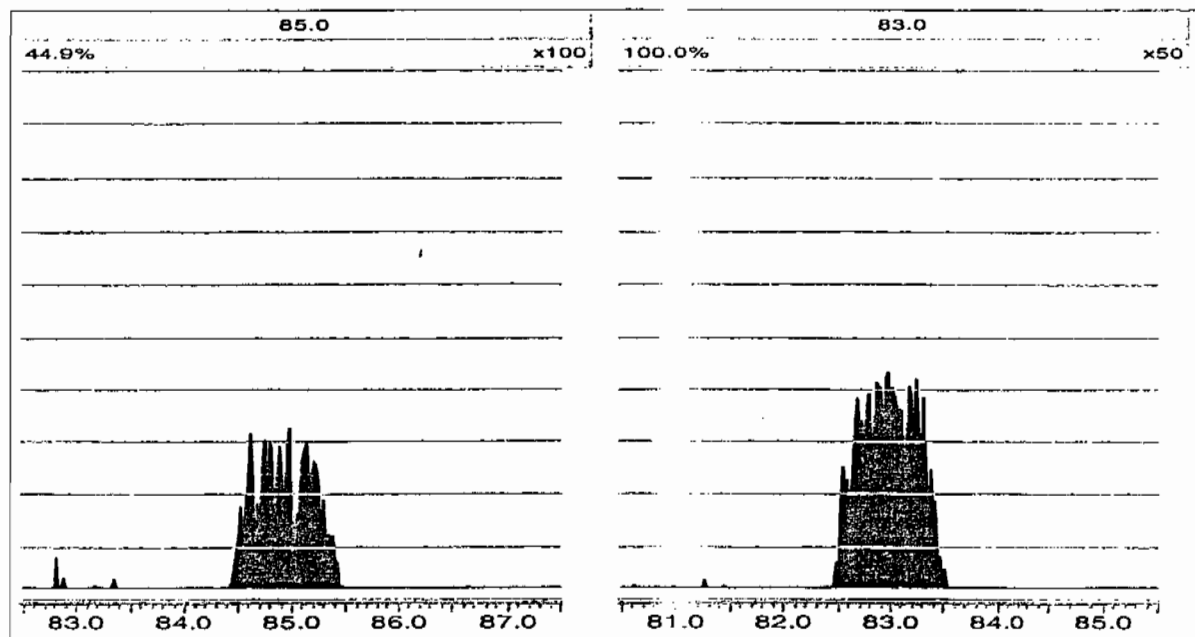
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Sunday, February 28, 2010 11:23:43 Eastern Standard Time



Perchlorate RT And Area Summary

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1565

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	per0228006a	28-FEB-10	22640.4				
Lower Area Limit			11320.2				
Upper Area Limit			45280.8				
1202041311	per0228049a	28-FEB-10 20:36	23252.3	3.81	3.80582	.999	
1202041312	per0228050a	28-FEB-10 20:45	23810.6	3.81	3.8306	1.005	
1202041315	per0228051a	28-FEB-10 20:54	23899.4	3.94	3.95488	1.004	
246322001	per0228052a	28-FEB-10 21:03	22616.6	3.79	3.8306	1.011	
246322002	per0228053a	28-FEB-10 21:12	22573.3	3.78	3.80582	1.007	
246322003	per0228054a	28-FEB-10 21:21	22287.1	3.79	3.78087	.998	
246322004	per0228055a	28-FEB-10 21:30	22896.9	3.78	3.79335	1.004	
246322005	per0228056a	28-FEB-10 21:39	26326.2	3.74	3.76855	1.008	

Perchlorate RT And Area Summary

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

GEL Job No.(SDG): 10-1565

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	per0228006a	28-FEB-10	22640.4				
Lower Area Limit			11320.2				
Upper Area Limit			45280.8				
246322006	per0228057a	28-FEB-10 21:48	22743.7	3.78	3.80582	1.007	
246322007	per0228058a	28-FEB-10 21:57	23135.8	3.79	3.81813	1.007	
246322008	per0228062a	28-FEB-10 22:33	23262.1	3.78	3.80587	1.007	
246322009	per0228063a	28-FEB-10 22:43	22163.9	3.77	3.78087	1.003	

SAMPLE DATA

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 952422
 Extraction Type: Solid Prep
 Client Sample No. RE15-10-7332
 Date Received: 05-FEB-10
 GEL Job No (SDG): 10-1565
 GEL Sample ID: 246322001
 Date Filtered: 19-FEB-10
 Injection Volume (uL): 20
 %Solids: 93.5

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	.535	2.14	0.535	ug/kg	U	1	28-FEB-10 21:03	per0228052a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:03	per0228052a
14797-73-0	Perchlorate-101	.535	2.14	0.535	ug/kg	U	1	28-FEB-10 21:03	per0228052a
	Perchlorate-O(18)			5.24	ug/kg		1	28-FEB-10 21:03	per0228052a

[^] 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\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228052a

Date: 28-Feb-2010

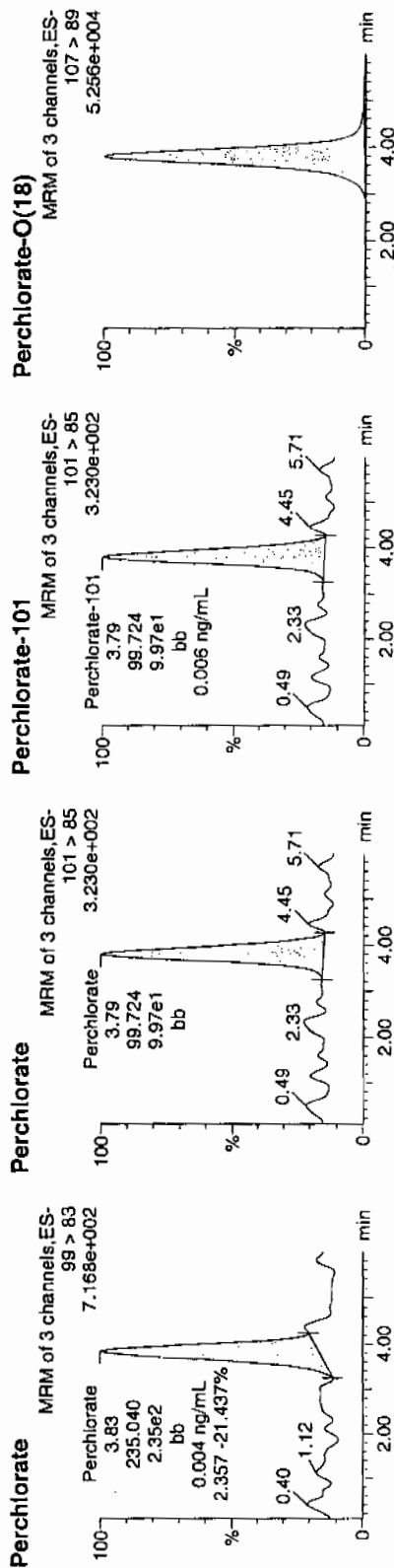
Time: 21:03:21

ID: 246322001

Vial: 2:1,D

03-01-10

LANL 952425 | 2010 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246322001	Perchlorate	99 > 83	3.83	235.040	235.040	bb			0.0045			31.092	2.36
246322001	Perchlorate-101	101 > 85	3.79	99.724	99.724	bb			0.0061			24.628	
246322001	Perchlorate-O(18)	107 > 89	3.79	22616.605	22616.605	bb			0.4903	98.06	-1.94	2243.1...	

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: 952422

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7333

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322002

Date Filtered: 19-FEB-10

Injection Volume (uL): 20

%Solids: 94.3

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 21:12	per0228053a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:12	per0228053a
14797-73-0	Perchlorate-101	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 21:12	per0228053a
	Perchlorate-O(18)			5.19	ug/kg		1	28-FEB-10 21:12	per0228053a

[^] 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\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228053a

Date: 28-Feb-2010

Time: 21:12:23

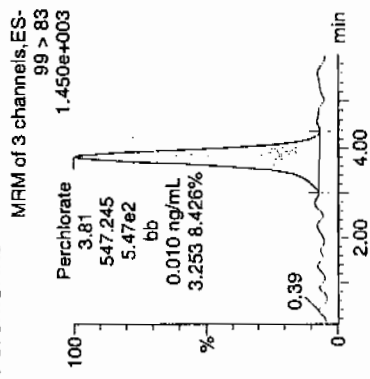
ID: 246322002

Vial: 2:1,E

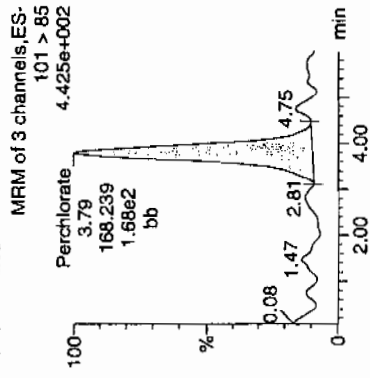
03-01-10

12221952425 | 50720 | 11

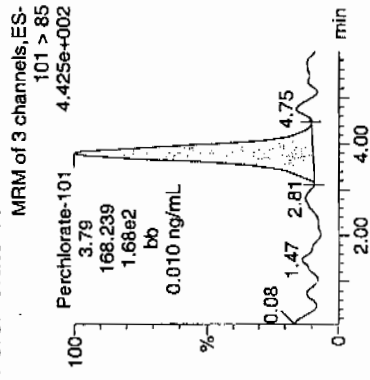
Perchlorate



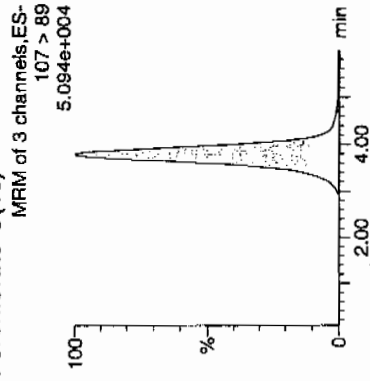
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246322002	Perchlorate	98 > 83	3.81	547.245	547.245	bb			0.0105			116.801	3.25
246322002	Perchlorate-101	101 > 85	3.79	168.239	168.239	bb			0.0103			30.444	
246322002	Perchlorate-O(18)	107 > 89	3.78	22573.307	22573.307	bb			0.4893	97.87	-2.13	4888.1...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC Client Sample No. RE15-10-7336

Lab Code: GEL

Instrument: LCMSMS Date Received: 05-FEB-10

Method: SW846 6850 Modified GEL Job No (SDG): 10-1565

Matrix: SOIL GEL Sample ID: 246322003

Extraction Batch ID: 952422 Date Filtered: 19-FEB-10

Extraction Type: Solid Prep Injection Volume (uL): 20

Sample Volume/Weight: 2.00 g %Solids: 92.8

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.539	2.16	0.539	ug/kg	U	1	28-FEB-10 21:21	per0228054a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:21	per0228054a
14797-73-0	Perchlorate-101	.539	2.16	0.539	ug/kg	U	1	28-FEB-10 21:21	per0228054a
	Perchlorate-O(18)			5.21	ug/kg		1	28-FEB-10 21:21	per0228054a

[^] 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\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228054a

Date: 28-Feb-2010

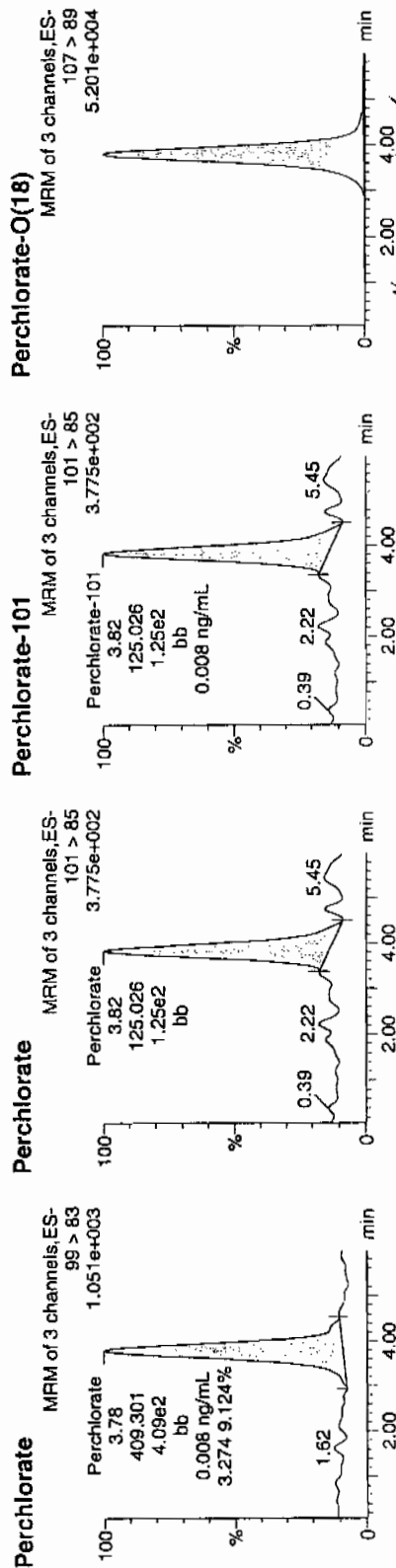
Time: 21:21:23

ID: 246322003

Vial: 2:1,F

03-01-10

152425 | 30720 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246322003	Perchlorate	99 > 83	3.78	409.301	409.301	bb			0.0078			78.924	3.27
246322003	Perchlorate-101	101 > 85	3.82	125.026	125.026	bb			0.0076			25.876	
246322003	Perchlorate-O(18)	107 > 89	3.79	22287.127	22287.127	bb			0.4831	96.68	-3.37	16126...	

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: 952422

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7337

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322004

Date Filtered: 19-FEB-10

Injection Volume (uL): 20

%Solids: 94.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 21:30	per0228055a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:30	per0228055a
14797-73-0	Perchlorate-101	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 21:30	per0228055a
	Perchlorate-O(18)			5.26	ug/kg		1	28-FEB-10 21:30	per0228055a

[^] 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\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228055a

Date: 28-Feb-2010

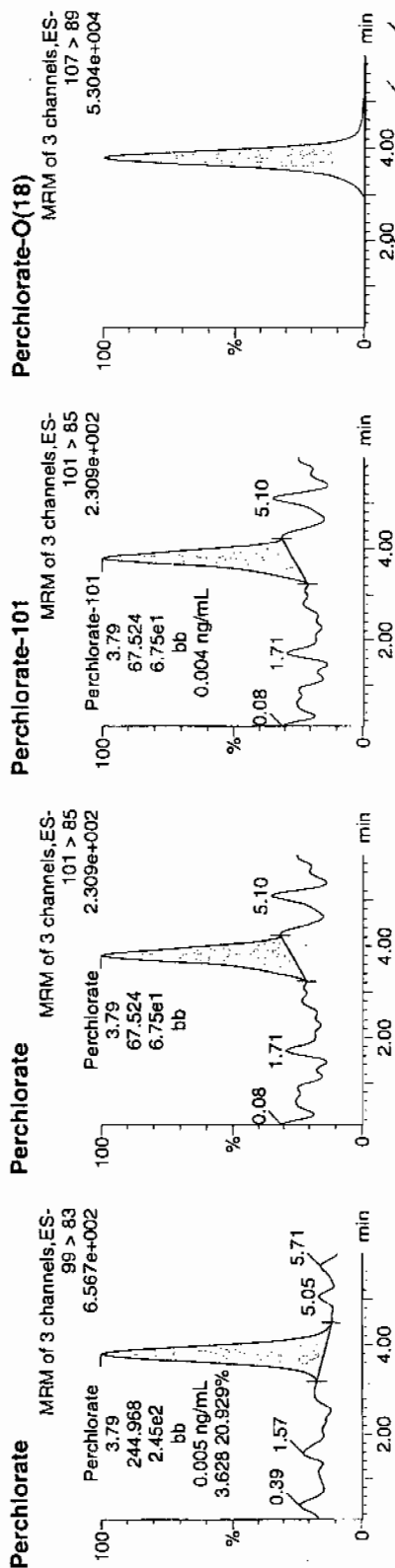
Time: 21:30:23

ID: 246322004

Vial: 2:2,A

03-01-10

LANC 1952425 | 5000 | 1 |



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246322004	Perchlorate	99 > 83	3.79	244.968	244.968	bb			0.0047			82.952	3.63
246322004	Perchlorate-101	101 > 85	3.79	67.524	67.524	bb			0.0041			51.061	
246322004	Perchlorate-O(18)	107 > 89	3.78	22896.906	22896.906	bb			0.4964	99.27	-0.73	2517.2...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 952422
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7334
 Date Received: 05-FEB-10
 GEL Job No (SDG): 10-1565
 GEL Sample ID: 246322005
 Date Filtered: 19-FEB-10
 Injection Volume (uL): 20
 %Solids: 78

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.642	2.57	0.642	ug/kg	U	1	28-FEB-10 21:39	per0228056a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:39	per0228056a
14797-73-0	Perchlorate-101	.642	2.57	0.642	ug/kg	U	1	28-FEB-10 21:39	per0228056a
	Perchlorate-O(18)			7.32	ug/kg		1	28-FEB-10 21:39	per0228056a

[^] 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\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228056a

Date: 28-Feb-2010

Time: 21:39:26

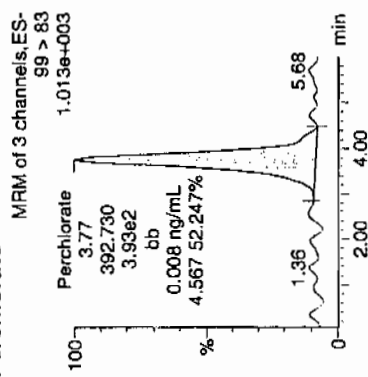
ID: 246322005

Vial: 2:2,B

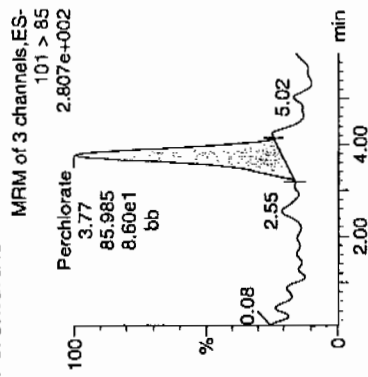
16200 | 952425 | 2010 | 11

03-01-10

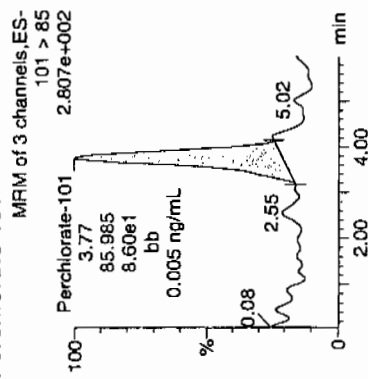
Perchlorate



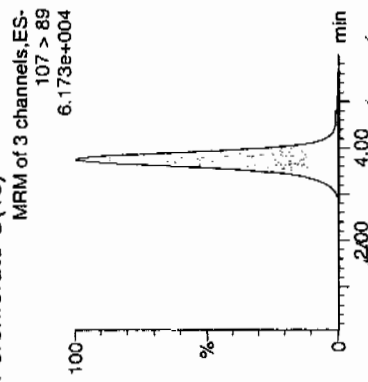
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246322005	Perchlorate	99 > 83	3.77	392.730	392.730	bb			0.0075			87.116	4.57
246322005	Perchlorate-101	101 > 85	3.77	85.985	85.985	bb			0.0052			36.547	
246322005	Perchlorate-O(18)	107 > 89	3.74	26326.213	26326.213	bb			0.5707	114.14	14.14	5313.3...	

2010/03/10
JAY
2005

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: 952422
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7335
 Date Received: 05-FEB-10
 GEL Job No (SDG): 10-1565
 GEL Sample ID: 246322006
 Date Filtered: 19-FEB-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	.568	2.27	0.568	ug/kg	U	1	28-FEB-10 21:48	per0228057a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:48	per0228057a
14797-73-0	Perchlorate-101	.568	2.27	0.568	ug/kg	U	1	28-FEB-10 21:48	per0228057a
	Perchlorate-O(18)			5.60	ug/kg		1	28-FEB-10 21:48	per0228057a

[^] 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\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228057a

Date: 28-Feb-2010

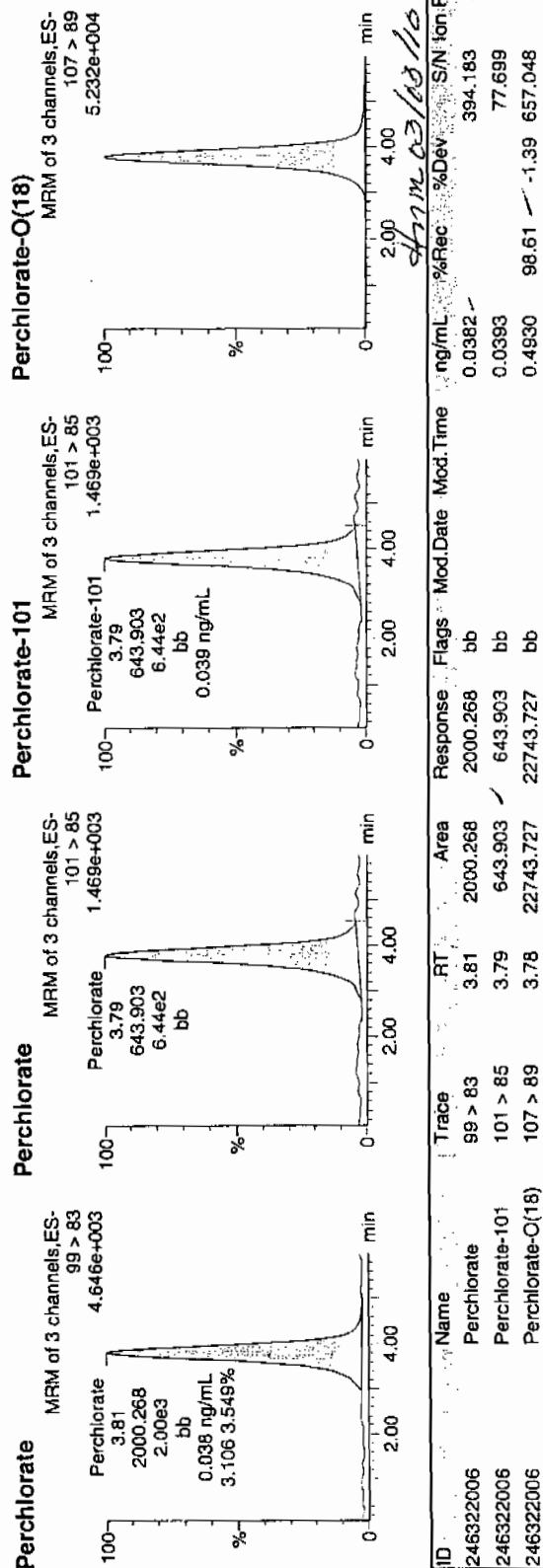
Time: 21:48:28

ID: 246322006

Vial: 2:2,C

1000-952425 | 20020 | 11

03-01-10



$$\frac{2000.268}{43756.7} = 0.457$$

$$\frac{22743.727}{52351.7} = 0.434$$

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 952422

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7338

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322007

Date Filtered: 19-FEB-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	.621	2.48	0.621	ug/kg	U	1	28-FEB-10 21:57	per0228058a
	Perchlorate Isotope Ratio						1	28-FEB-10 21:57	per0228058a
14797-73-0	Perchlorate-101	.621	2.48	0.621	ug/kg	U	1	28-FEB-10 21:57	per0228058a
	Perchlorate-O(18)			6.23	ug/kg		1	28-FEB-10 21:57	per0228058a

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

*Concentration =

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

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228058a

Date: 28-Feb-2010

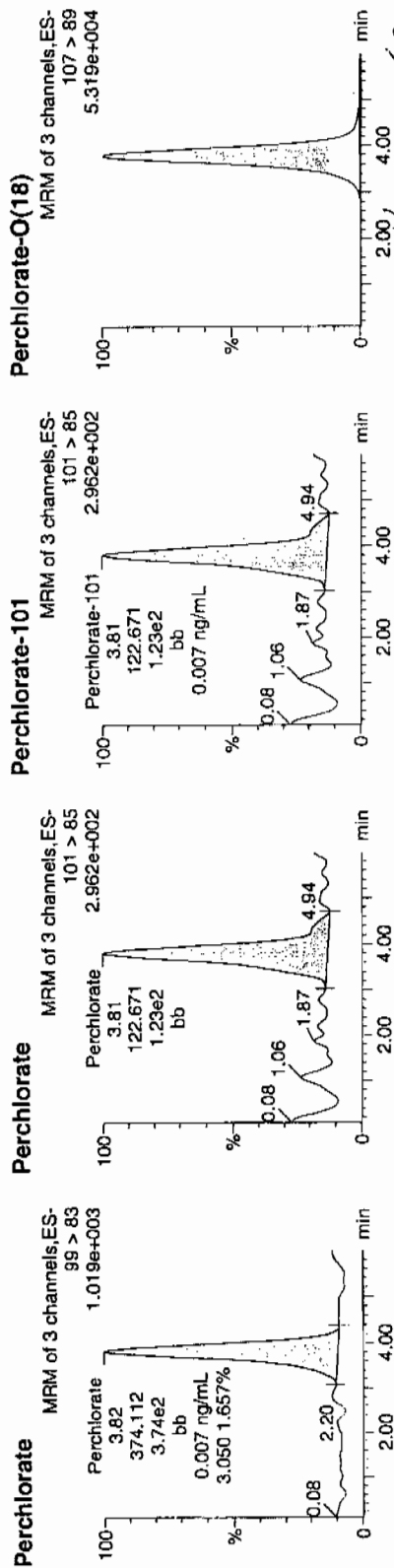
Time: 21:57:29

ID: 246322007

Vial: 2:2,D

03-01-10

1222425 | 3000 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
246322007	Perchlorate	99 > 83	3.82	374.112	374.112	bb			0.0071			50.647	3.05
246322007	Perchlorate-101	101 > 85	3.81	122.671	122.671	bb			0.0075			55.731	
246322007	Perchlorate-Q(18)	107 > 89	3.79	23135.830	23135.830	bb			0.5015	100.31	0.31	406.744	

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: 952422
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE15-10-7339
 Date Received: 05-FEB-10
 GEL Job No (SDG): 10-1565
 GEL Sample ID: 246322008
 Date Filtered: 19-FEB-10
 Injection Volume (uL): 20
 %Solids: 87

CAS No.	Analyte^	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.577	2.31	0.577	ug/kg	U	1	28-FEB-10 22:33	per0228062a
	Perchlorate Isotope Ratio						1	28-FEB-10 22:33	per0228062a
14797-73-0	Perchlorate-101	.577	2.31	0.577	ug/kg	U	1	28-FEB-10 22:33	per0228062a
	Perchlorate-O(18)			5.82	ug/kg		1	28-FEB-10 22:33	per0228062a

^ 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\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228062a

Date: 28-Feb-2010

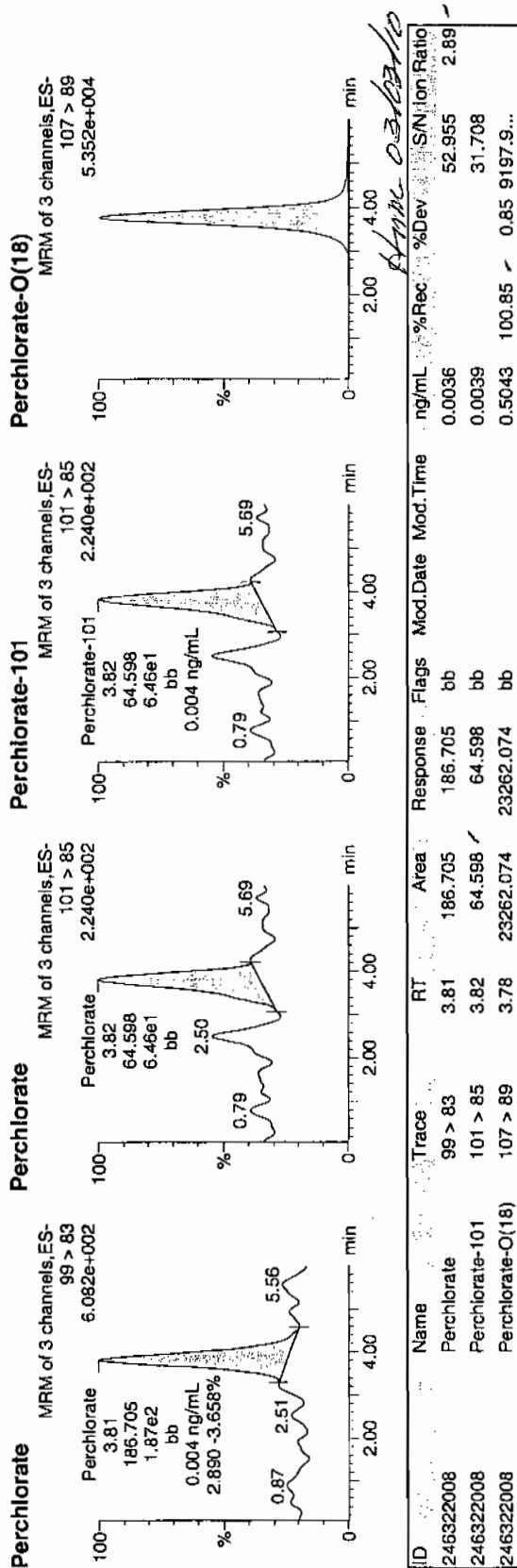
Time: 22:33:52

ID: 246322008

Vial: 2:2,E

03-01-10

1422-1952425/202011



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: 952422

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE15-10-7342

Date Received: 05-FEB-10

GEL Job No (SDG): 10-1565

GEL Sample ID: 246322009

Date Filtered: 19-FEB-10

Injection Volume (uL): 20

%Solids: 94.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 22:43	per0228063a
	Perchlorate Isotope Ratio						1	28-FEB-10 22:43	per0228063a
14797-73-0	Perchlorate-101	.53	2.12	0.530	ug/kg	U	1	28-FEB-10 22:43	per0228063a
	Perchlorate-O(18)			5.09	ug/kg		1	28-FEB-10 22:43	per0228063a

[^] 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\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228063a

Date: 28-Feb-2010

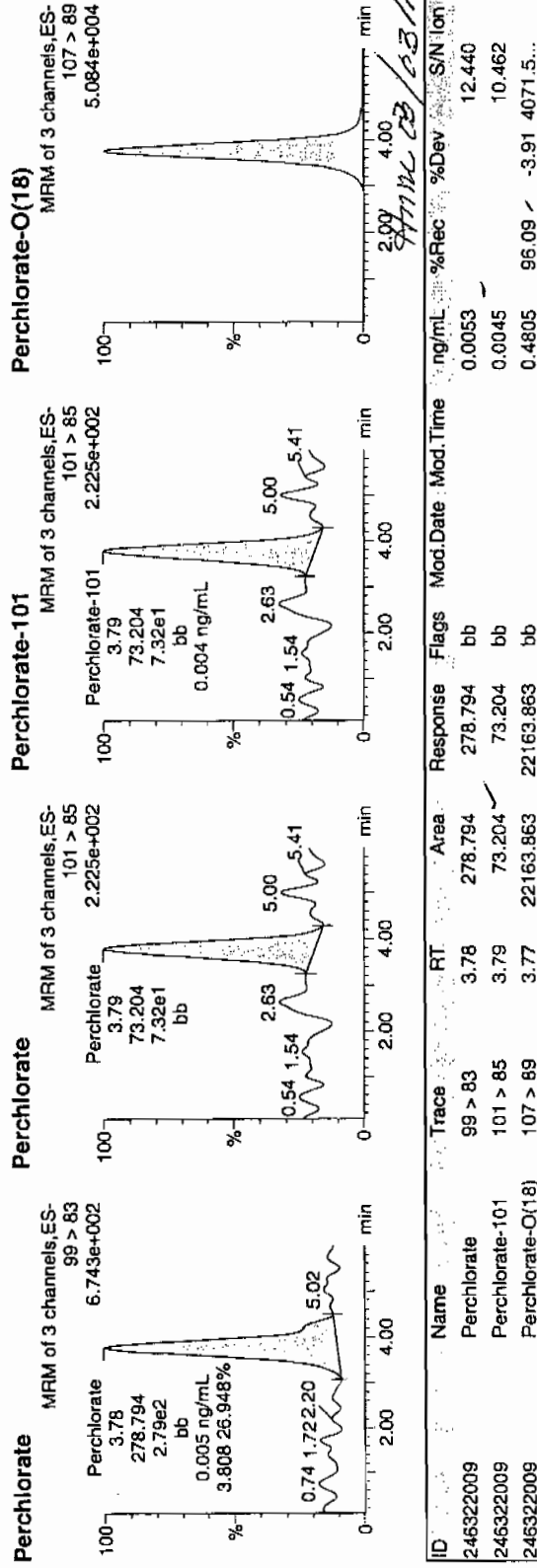
Time: 22:43:04

ID: 246322009

Vial: 2:2,F

03-01-10

1222 | 952425 | 5000 | 11



STANDARDS DATA

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1565

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 28-FEB-10

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

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

Parname Perchlorate

Coefficient of Determination:

Calibration Curve: 52351.68

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-1565

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 28-FEB-10

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

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

Parname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 16404.62

Response Type: External Standard

Curve Type: RF

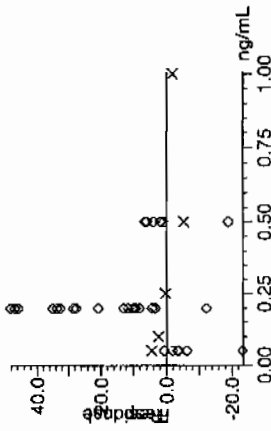
Quantify Calibration Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

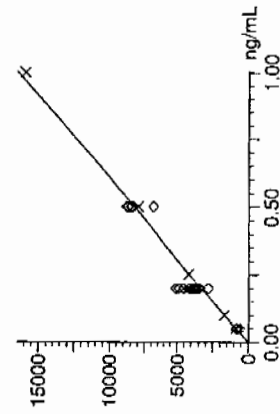
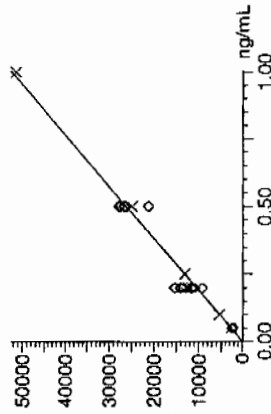
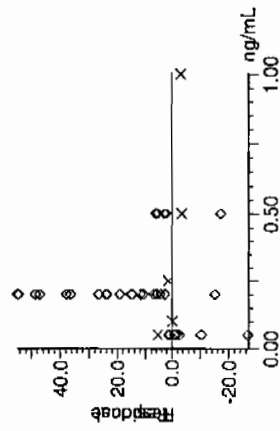
Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per022810a.mdb 28 Feb 2010 14:26:41
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per022810a.cdb 01 Mar 2010 07:59:32

Compound name: Perchlorate ✓
Response Factor: 52351.7
RRF SD: 1965.88, % Relative SD: 3.75513
Response type: External Std, Area
Curve type: RF



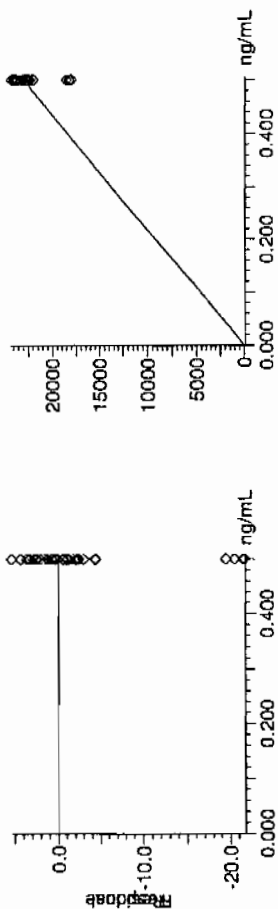
Compound name: Perchlorate-101 ✓
Response Factor: 16404.7
RRF SD: 612.292, % Relative SD: 3.73243
Response type: External Std, Area
Curve type: RF



03-01-10

1477
3/2/10

Compound name: Perchlorate-O(18)
 Response Factor: 46130.1
 RRF SD: 725.418, % Relative SD: 1.57255
 Response type: External Std, Area
 Curve type: RF



Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1565

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.52	104.03	28-FEB-10 14:34	per0228009a
Perchlorate Isotope Ratio		3.22		28-FEB-10 14:34	per0228009a
Perchlorate-101	.5	.51	102.95	28-FEB-10 14:34	per0228009a

Quantify Sample Report MassLynx 4.0 SP4

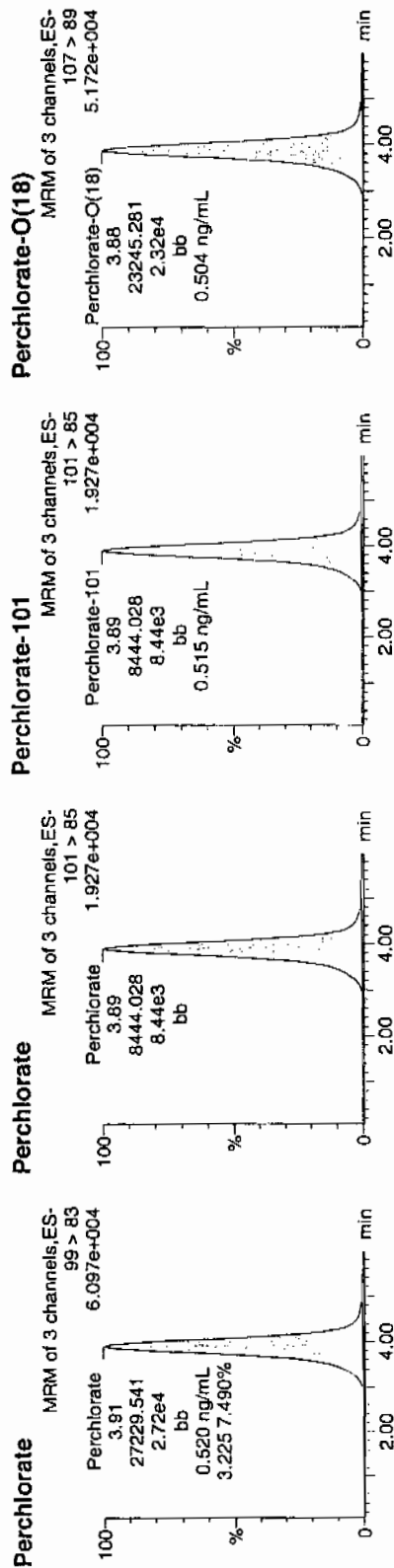
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
 Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228009a
 Date: 28-Feb-2010
 Time: 14:34:14
 ID: WCL100227-06ICV
 Vial: 1:2,A

Pure
 03-0-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06ICV	Perchlorate	99 > 83	3.91	27229.541	27229.541	bb			0.5201	104.03	4.03	2412.0...	3.22
WCL100227-06ICV	Perchlorate-101	101 > 85	3.89	8444.028	8444.028	bb			0.5147	102.95	2.95	262.949	
WCL100227-06ICV	Perchlorate-O(18)	107 > 89	3.88	23245.281	23245.281	bb			0.5039	100.78	0.78	856.941	

$$\frac{27229.541}{52357.7} = 0.5201$$

μg/g
 3/2/10

Perchlorate Continuing Calibration Verification

GEL Job No.(SDG): 10-1565

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.53	106.46	28-FEB-10 15:37	per0228016a
Perchlorate Isotope Ratio		3.22		28-FEB-10 15:37	per0228016a
Perchlorate-101	.5	.53	105.42	28-FEB-10 15:37	per0228016a
Perchlorate	.5	.5	100.74	28-FEB-10 17:07	per0228026a
Perchlorate Isotope Ratio		3.15		28-FEB-10 17:07	per0228026a
Perchlorate-101	.5	.51	102.06	28-FEB-10 17:07	per0228026a
Perchlorate	.5	.51	101.66	28-FEB-10 18:38	per0228036a
Perchlorate Isotope Ratio		3.06		28-FEB-10 18:38	per0228036a
Perchlorate-101	.5	.53	105.98	28-FEB-10 18:38	per0228036a
Perchlorate	.5	.51	101.97	28-FEB-10 20:08	per0228046a
Perchlorate Isotope Ratio		3.06		28-FEB-10 20:08	per0228046a
Perchlorate-101	.5	.53	106.51	28-FEB-10 20:08	per0228046a
Perchlorate	.5	.53	105.97	28-FEB-10 22:06	per0228059a

Form 3

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1565

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate Isotope Ratio		3.3		28-FEB-10 22:06	per0228059a
Perchlorate-101	.5	.51	102.36	28-FEB-10 22:06	per0228059a
Perchlorate	.5	.51	101.95	01-MAR-10 00:04	per0228072a
Perchlorate Isotope Ratio		3.09		01-MAR-10 00:04	per0228072a
Perchlorate-101	.5	.53	105.37	01-MAR-10 00:04	per0228072a

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

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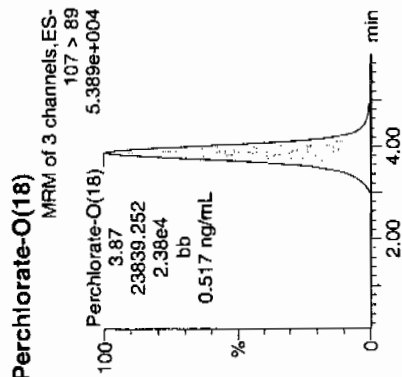
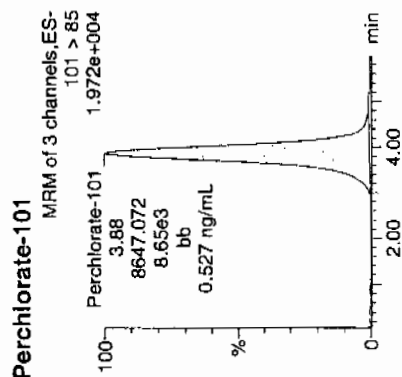
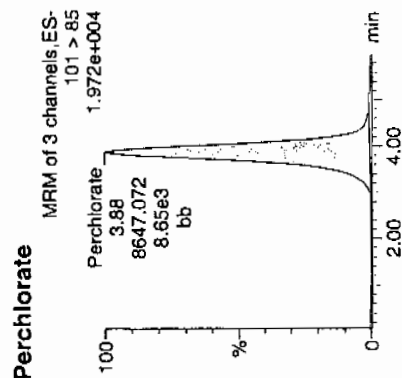
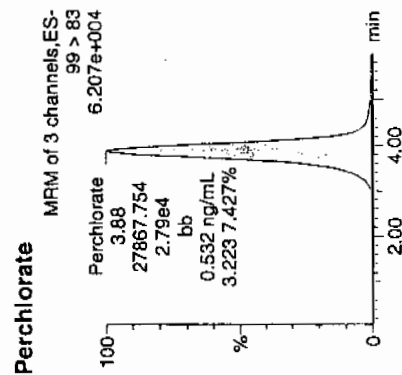
Date: 28-Feb-2010

Time: 15:37:32

ID: WCL100227-06CCV

Vial: 1:2,A

Pure
03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.88	27867.754	27867.754	bb			0.5323	106.46	6.46	1199.3...	3.22
WCL100227-06CCV	Perchlorate-101	101 > 85	3.88	8647.072	8647.072	bb			0.5271	105.42	5.42	1735.7...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.87	23839.252	23839.252	bb			0.5168	103.36	3.36	8562.0...	

WCL
3/2/10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228026a

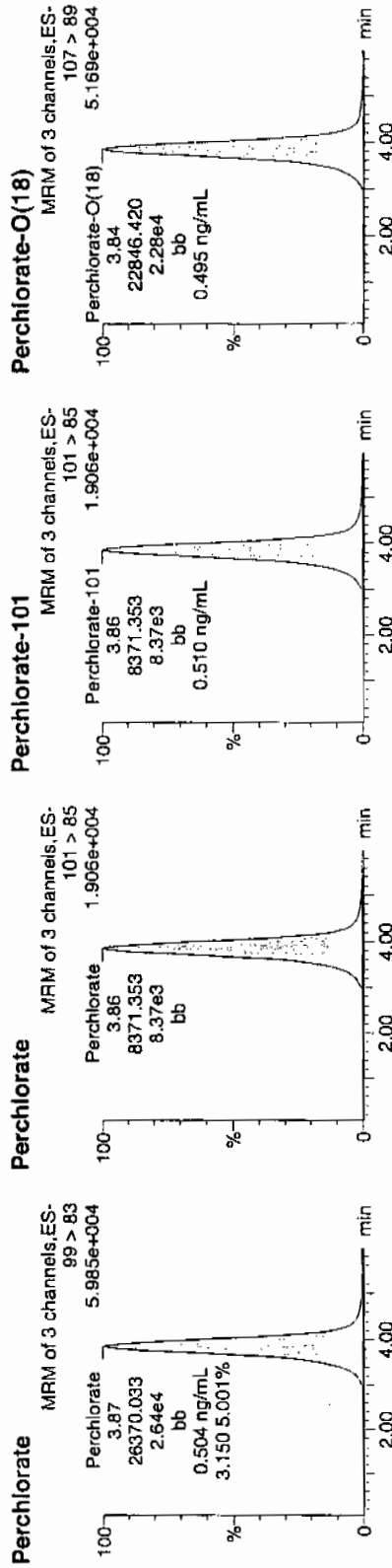
Date: 28-Feb-2010

Time: 17:07:55

ID: WCL100227-06CCV

Vial: 1:2,A

Pass
03-DI-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.87	26370.033	26370.033	bb			0.5037	100.74	0.74	4097.9...	3.15
WCL100227-06CCV	Perchlorate-101	101 > 85	3.86	8371.353	8371.353	bb			0.5103	102.06	2.06	2114.7...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.84	22846.420	22846.420	bb			0.4953	99.05	-0.95	6053.3...	

not
3/2/10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228036a

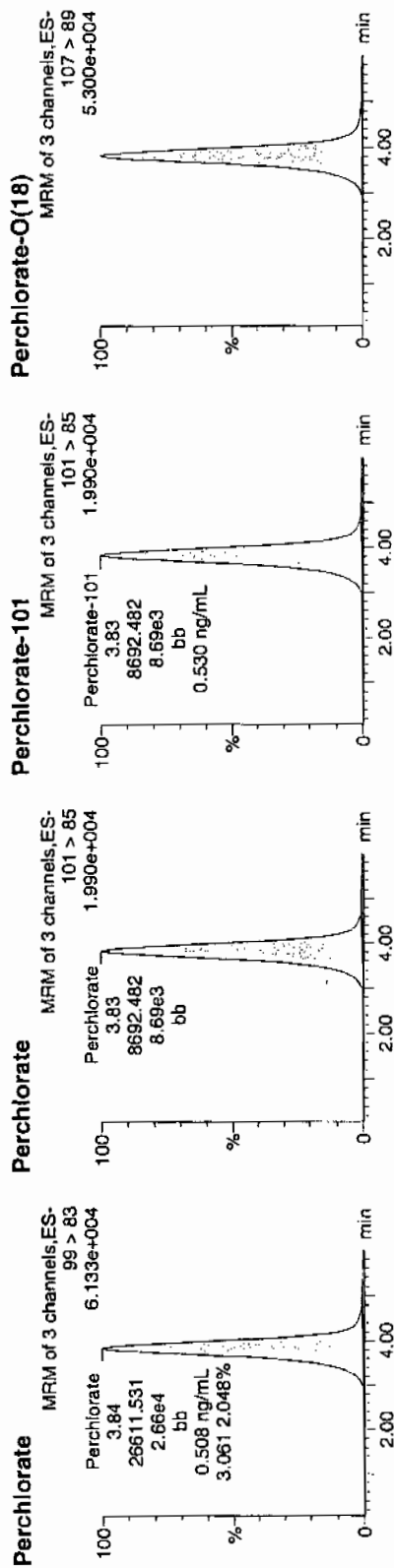
Date: 28-Feb-2010

Time: 18:38:24

ID: WCL100227-06CCV

Vial: 1:2,A

Per
03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N:Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.84	26611.531	26611.531	bb			0.5083	101.66	1.66	6268.7...
WCL100227-06CCV	Perchlorate-101	101 > 85	3.83	8692.482	8692.482	bb			0.5299	105.98	5.98	3933.2...
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.82	23130.422	23130.422	bb			0.5014	100.28	0.28	2520.9...

WCL
3/2/10

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228046a

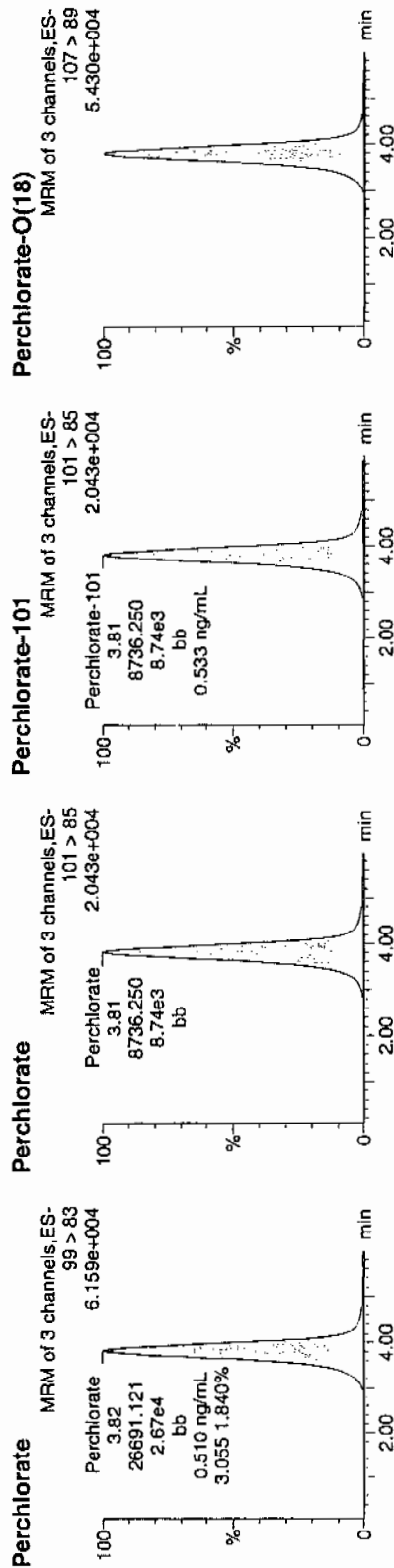
Date: 28-Feb-2010

Time: 20:08:58

ID: WCL100227-06CCV

Vial: 1:2,A

Per
03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.82	26691.121	26691.121	bb			0.5098	101.97	1.97	3802.9...	3.06
WCL100227-06CCV	Perchlorate-101	101 > 85	3.81	8736.250	8736.250	bb			0.5325	106.51	6.51	984.295	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.79	23213.988	23213.988	bb			0.5032	100.65	0.65	2872.0...	

MAP
3/2/10

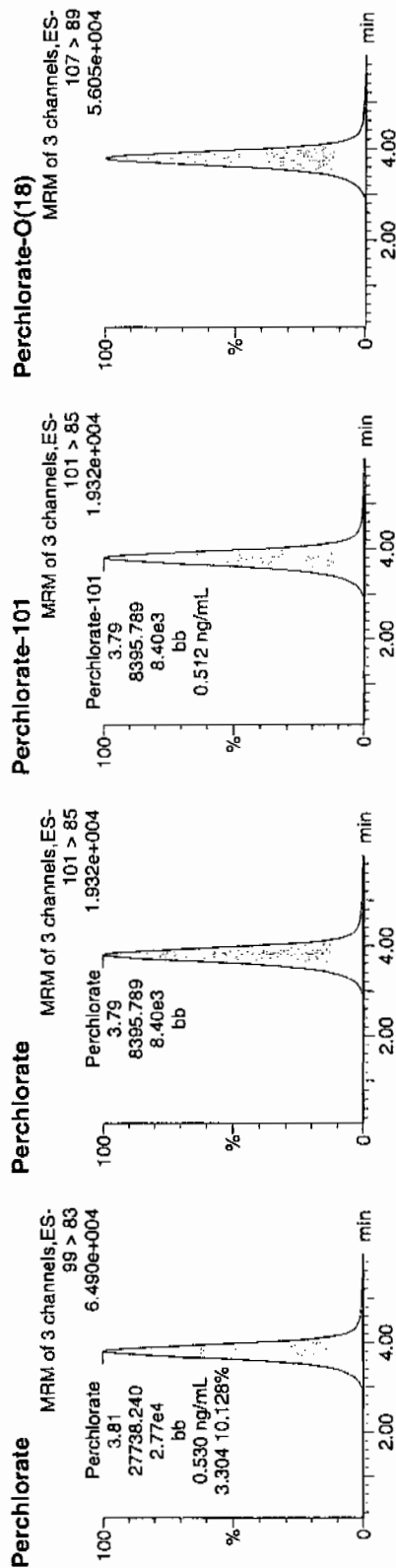
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

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Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228059a
Date: 28-Feb-2010
Time: 22:06:31
ID: WCL100227-06CCV
Vial: 1:2,A

Per
WCL
03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.81	27738.240	27738.240	bb			0.5298	105.97	5.97	5890.9...	3.30
WCL100227-06CCV	Perchlorate-101	101 > 85	3.79	8395.789	8395.789	bb			0.5118	102.36	2.36	2478.9...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.78	24054.559	24054.559	bb			0.5215	104.29	4.29	1999.5...	

WCL
3/2/10

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228072a

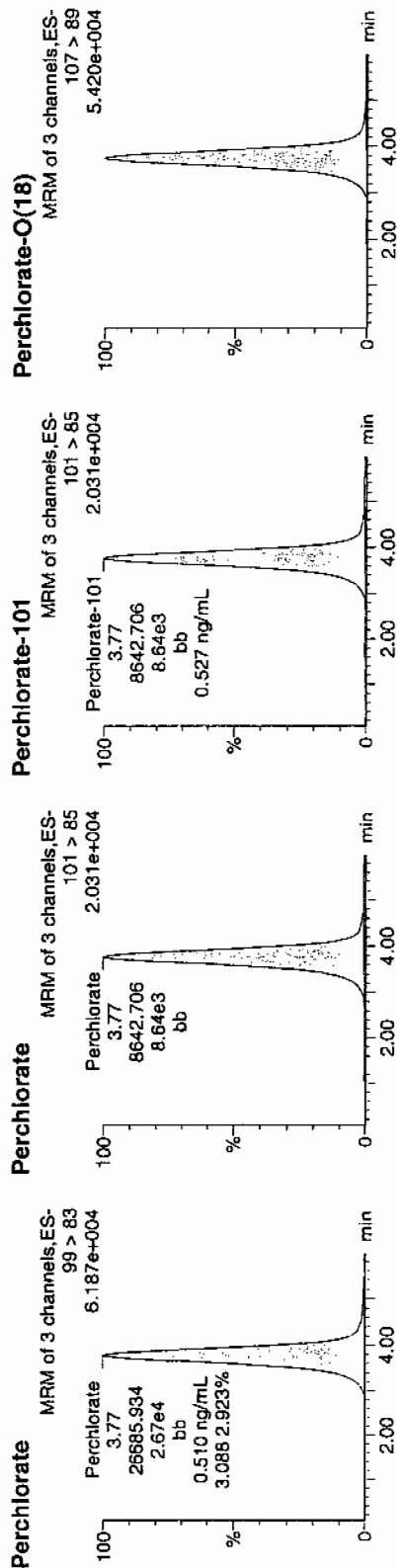
Date: 01-Mar-2010

Time: 00:04:24

ID: WCL100227-06CCV

Vial: 1:2,A

*Per
03-01-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.77	26685.934	26685.934	bb			0.5097	101.95	1.95	1347.5...	3.09
WCL100227-06CCV	Perchlorate-101	101 > 85	3.77	8642.706	8642.706	bb			0.5268	105.37	5.37	2897.4...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.76	23346.848	23346.848	bb			0.5061	101.22	1.22	10621...	

*not
3/1/10*

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1565

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	100.67	28-FEB-10 14:52	per0228011a
Perchlorate Isotope Ratio		3.18		28-FEB-10 14:52	per0228011a
Perchlorate-101	.05	.05	100.96	28-FEB-10 14:52	per0228011a
Perchlorate	.05	.05	96.62	28-FEB-10 15:55	per0228018a
Perchlorate Isotope Ratio		3.11		28-FEB-10 15:55	per0228018a
Perchlorate-101	.05	.05	99.3	28-FEB-10 15:55	per0228018a
Perchlorate	.05	.05	96.29	28-FEB-10 17:26	per0228028a
Perchlorate Isotope Ratio		3.42		28-FEB-10 17:26	per0228028a
Perchlorate-101	.05	.04	89.75	28-FEB-10 17:26	per0228028a
Perchlorate	.05	.05	96.75	28-FEB-10 18:56	per0228038a
Perchlorate Isotope Ratio		3.12		28-FEB-10 18:56	per0228038a

Perchlorate MDL Verification

GEL Job No.(SDG): 10-1565

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/kg

Perchlorate-101	.05	.05	98.85	28-FEB-10 18:56	per0228038a
Perchlorate	.05	.05	93.82	28-FEB-10 20:27	per0228048a
Perchlorate Isotope Ratio		3.05		28-FEB-10 20:27	per0228048a
Perchlorate-101	.05	.05	98.07	28-FEB-10 20:27	per0228048a
Perchlorate	.05	.05	98.16	28-FEB-10 22:24	per0228061a
Perchlorate Isotope Ratio		3.08		28-FEB-10 22:24	per0228061a
Perchlorate-101	.05	.05	101.55	28-FEB-10 22:24	per0228061a
Perchlorate	.05	.05	96.71	01-MAR-10 00:22	per0228074a
Perchlorate Isotope Ratio		3.17		01-MAR-10 00:22	per0228074a
Perchlorate-101	.05	.05	97.27	01-MAR-10 00:22	per0228074a

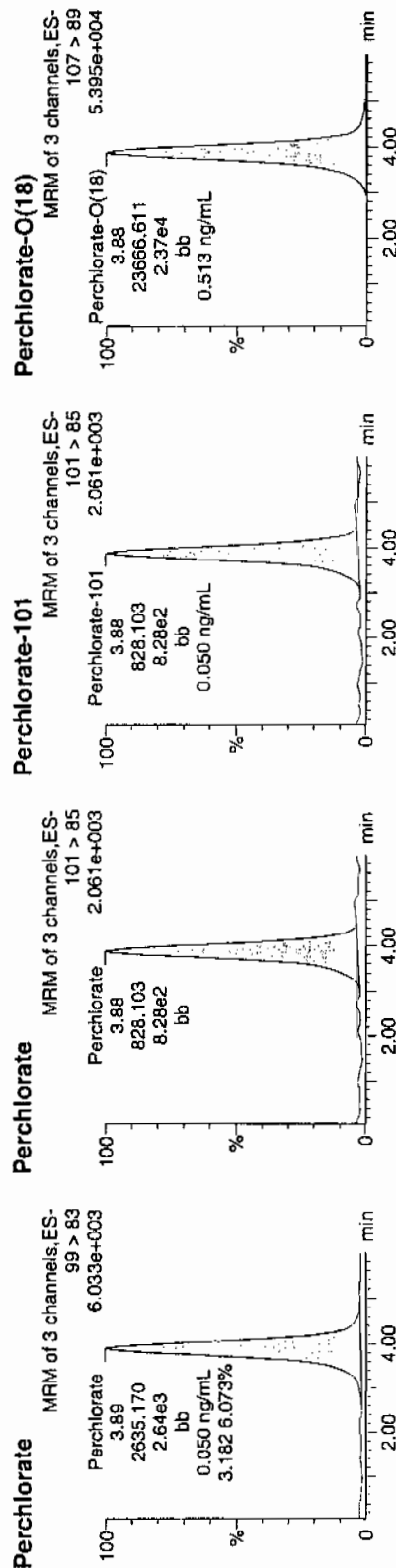
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228011a
Date: 28-Feb-2010
Time: 14:52:18
ID: WCL100227-07CRI
Vial: 1:2,B

Pass and
03.10.10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	pg/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.89	2635.170	2635.170	bb			0.0503	100.67	0.67	223.191	3.18
WCL100227-07CRI	Perchlorate-101	101 > 85	3.88	828.103	828.103	bb			0.0505	100.96	0.96	139.538	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.88	23666.611	23666.611	bb			0.5130	102.61	2.61	1637.5...	

$$\frac{2635.170}{52357.7} = 0.0503$$

with
3/2/10

Quantify Sample Report MassLynx 4.0 SP4

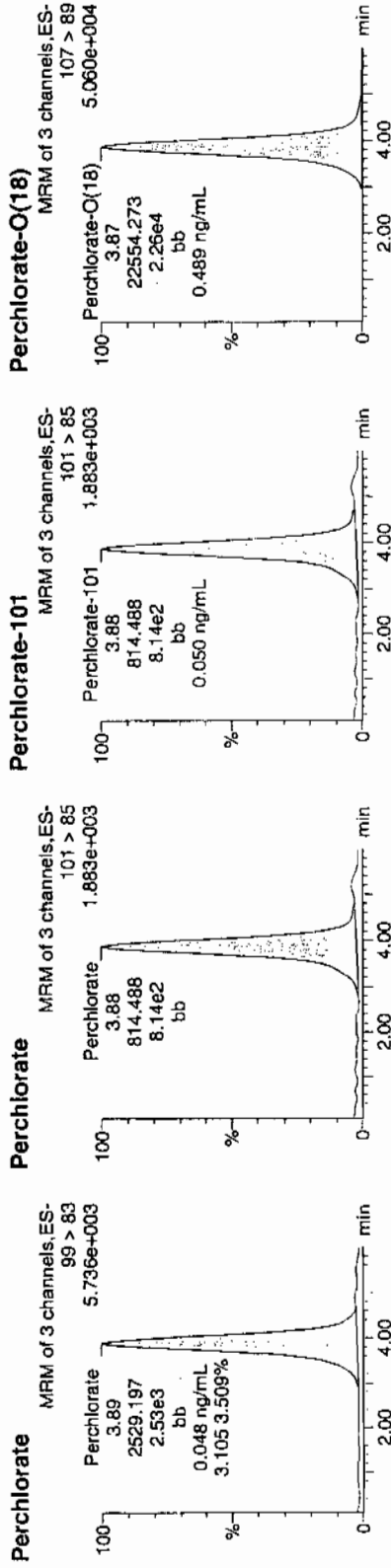
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

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Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228018a
Date: 28-Feb-2010
Time: 15:55:36
ID: WCL100227-07CRI
Vial: 1:2,B

Per
03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.89	2529.197	2529.197	bb			0.0483	96.62	-3.38	311.556	3.11
WCL100227-07CRI	Perchlorate-101	101 > 85	3.88	814.488 ✓	814.488	bb			0.0496	99.30	-0.70	98.681	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.87	22554.273	22554.273	bb			0.4889	97.79	-2.21	2001.2...	

4077
3/2/10

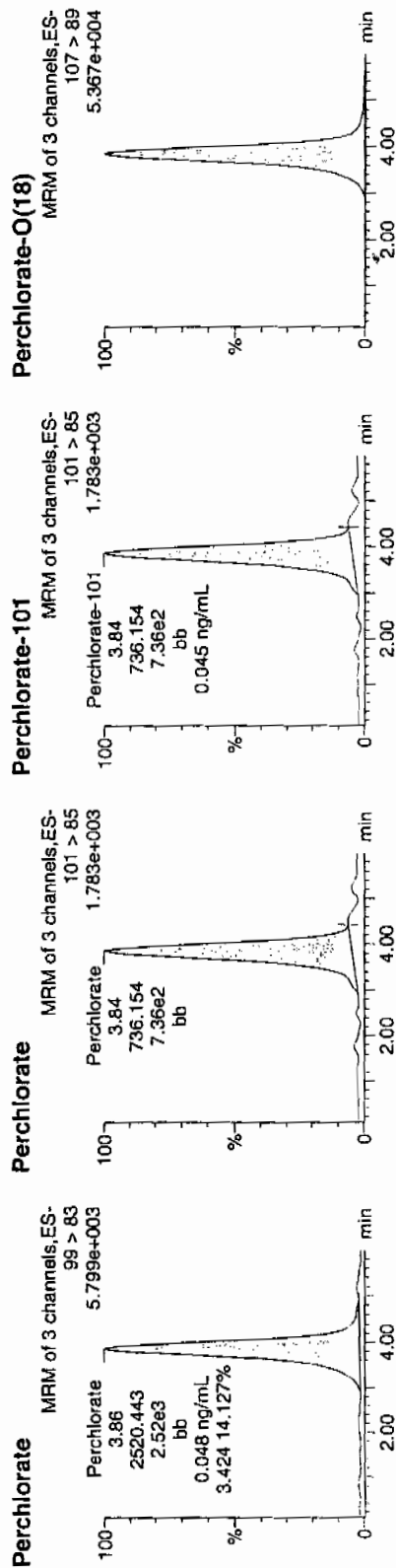
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228028a
Date: 28-Feb-2010
Time: 17:26:00
ID: WCL100227-07CRI
Vial: 1:2,B

Per
03/01/10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.86	2520.443	2520.443	bb			0.0481	96.29	-3.71	182.387	3.42
WCL100227-07CRI	Perchlorate-101	101 > 85	3.84	736.154	736.154	bb			0.0449	89.75	-10.25	270.948	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.83	23332.670	23332.670	bb			0.5058	101.16	1.16	4666.4...	

not
3/2/10

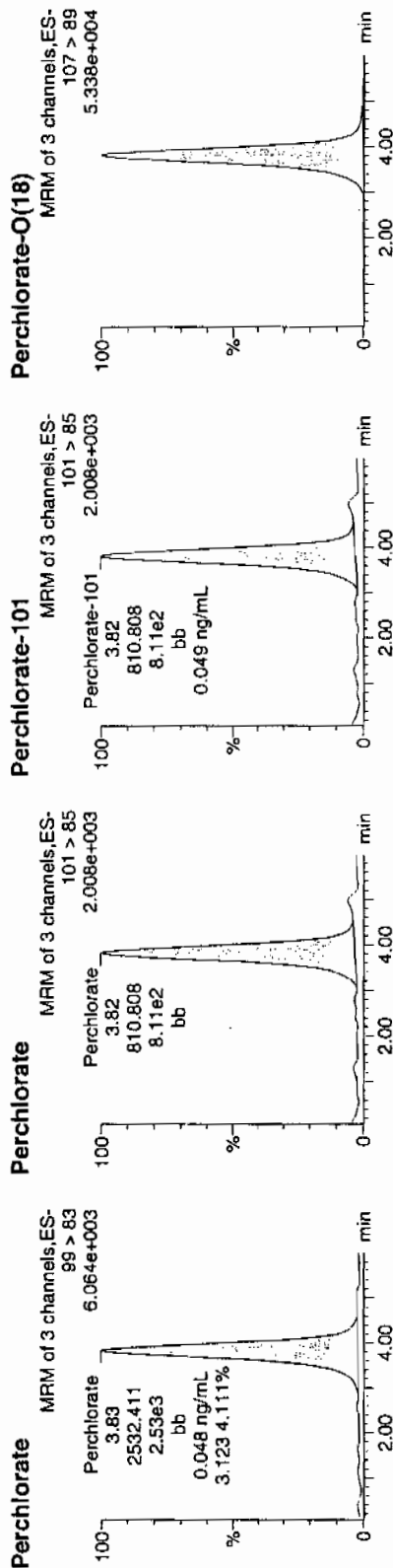
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228038a
Date: 28-Feb-2010
Time: 18:56:28
ID: WCL100227-07CRI
Vial: 1:2,B

03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.83	2532.411	2532.411	bb			0.0484	96.75	-3.25	397.853	3.12
WCL100227-07CRI	Perchlorate-101	101 > 85	3.82	810.808	810.808	bb			0.0494	98.85	-1.15	154.117	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.81	22936.805	22936.805	bb			0.4972	99.44	-0.56	2294.1...	

not
3/2/10

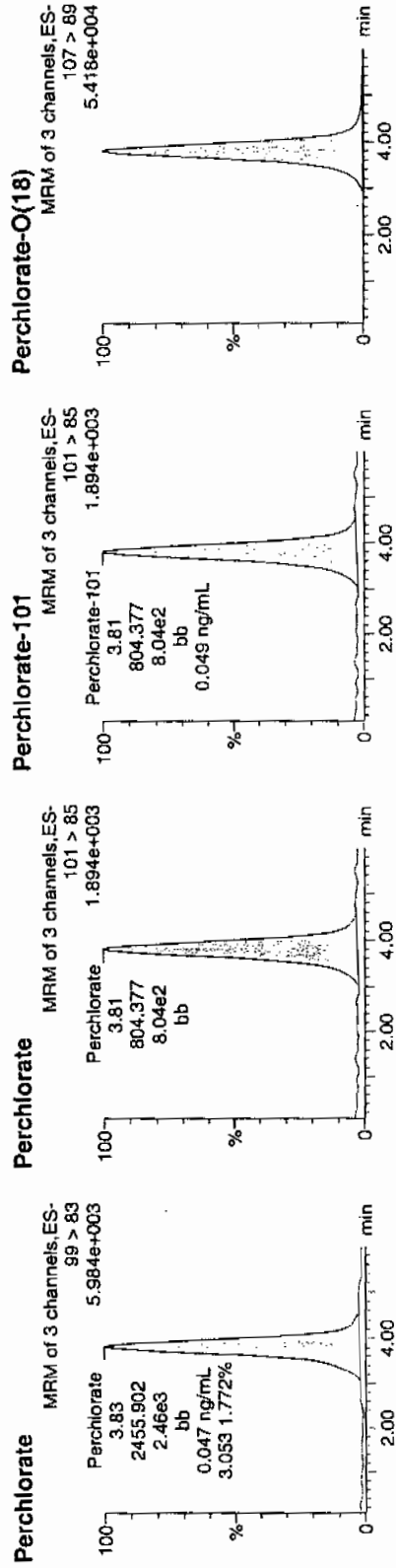
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228048a
Date: 28-Feb-2010
Time: 20:27:03
ID: WCL100227-07CRI
Vial: 1:2,B

*Per
and
03-01-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.83	2455.902	2455.902	bb			0.0469	93.82	-6.18	488.037	3.05
WCL100227-07CRI	Perchlorate-101	101 > 85	3.81	804.377	804.377	bb			0.0490	98.07	-1.93	370.049	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.81	23103.947	23103.947	bb			0.5008	100.17	0.17	4898.6...	

*Per
3/2/10*

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

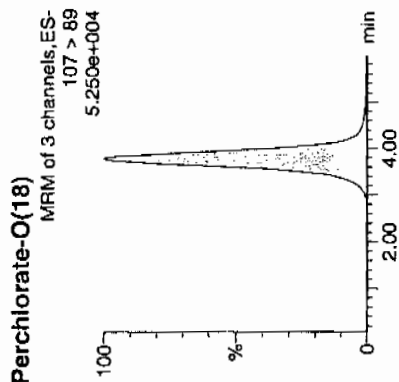
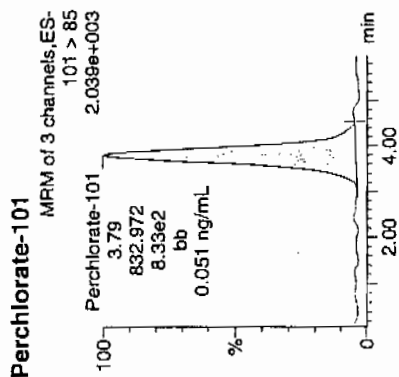
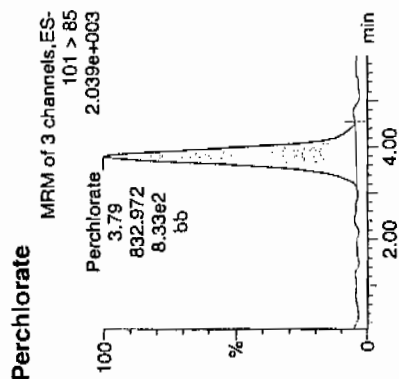
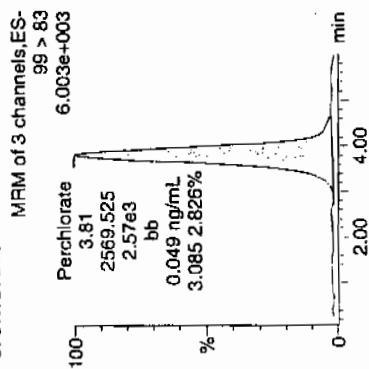
Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228061a
Date: 28-Feb-2010
Time: 22:24:50
ID: WCL100227-07CRI
Vial: 1:2,B

*Pers
02-01-10*

Perchlorate



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.81	2569.525	2569.525	bb			0.0491	98.16	-1.84	597.697	3.08
WCL100227-07CRI	Perchlorate-101	101 > 85	3.79	832.972	832.972	bb			0.0508	101.55	1.55	269.323	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.78	22761.428	22761.428	bb			0.4934	98.68	-1.32	2414.2...	

*WCL
3/2/10*

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

Dataset: C:\MassLynx\Perchlorate.PRO\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228074a

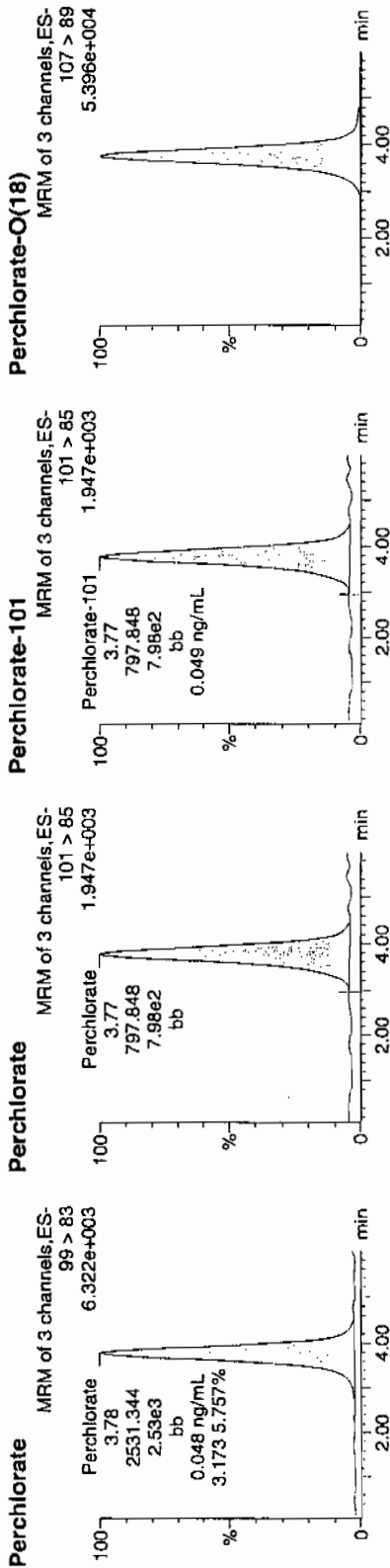
Date: 01-Mar-2010

Time: 00:22:43

ID: WCL100227-07CRI

Vial: 1:2,B

3/1/10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion.Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.78	2531.344	2531.344	bb			0.0484	96.71	-3.29	389.855	3.17
WCL100227-07CRI	Perchlorate-101	101 > 85	3.77	797.848	797.848	bb			0.0486	97.27	-2.73	56.081	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.76	23066.418	23066.418	bb			0.5000	100.01	0.01	8373.7...	

3/1/10

QUALITY CONTROL DATA

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: EPA 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 252422
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. MB
 Date Received: 19-FEB-10
 GEL Job No (SDG): 10-1565
 GEL Sample ID: 1202041311
 Date Filtered: 19-FEB-10
 Injection Volume (uL): 20
 % Solids: 100

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	0.500	ug/kg	U	1	28-FEB-10 20:36	per0228049a
	Perchlorate Isotope Ratio						1	28-FEB-10 20:36	per0228049a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	28-FEB-10 20:36	per0228049a
	Perchlorate-O(18)			5.04	ug/kg		1	28-FEB-10 20:36	per0228049a

[^] 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\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228049a

Date: 28-Feb-2010

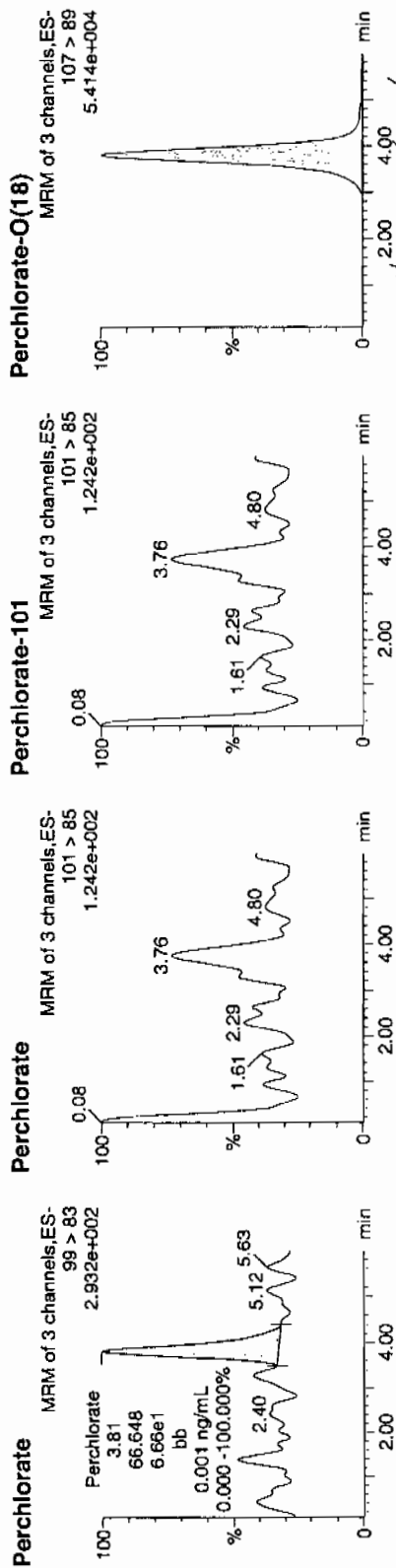
Time: 20:36:05

ID: 1202041311

Vial: 2:1,A

02-01-10

1202041311 | 952425 | 3070 | 10/11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202041311	Perchlorate	99 > 83	3.81	66.648	66.648	bb			0.0013			11.434	0.00
1202041311	Perchlorate-101	101 > 85											
1202041311	Perchlorate-O(18)	107 > 89	3.81	23252.273	23252.273	bb			0.5041	100.81	0.81	2029.3...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: EPA 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 952422
 Extraction Type: Solid Prep
 Client Sample No. LCS
 Date Received: 19-FEB-10
 GEL Job No (SDG): 10-1565
 GEL Sample ID: 1202041312
 Date Filtered: 19-FEB-10
 Injection Volume (uL): 20
 %Solids: 100

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	.5	2	2.07	ug/kg		1	28-FEB-10 20:45	per0228050a
	Perchlorate Isotope Ratio			3.22			1	28-FEB-10 20:45	per0228050a
14797-73-0	Perchlorate-101	.5	2	2.05	ug/kg		1	28-FEB-10 20:45	per0228050a
	Perchlorate-O(18)			5.16	ug/kg		1	28-FEB-10 20:45	per0228050a

[^] 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\per022810a.qld

Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228050a

Date: 28-Feb-2010

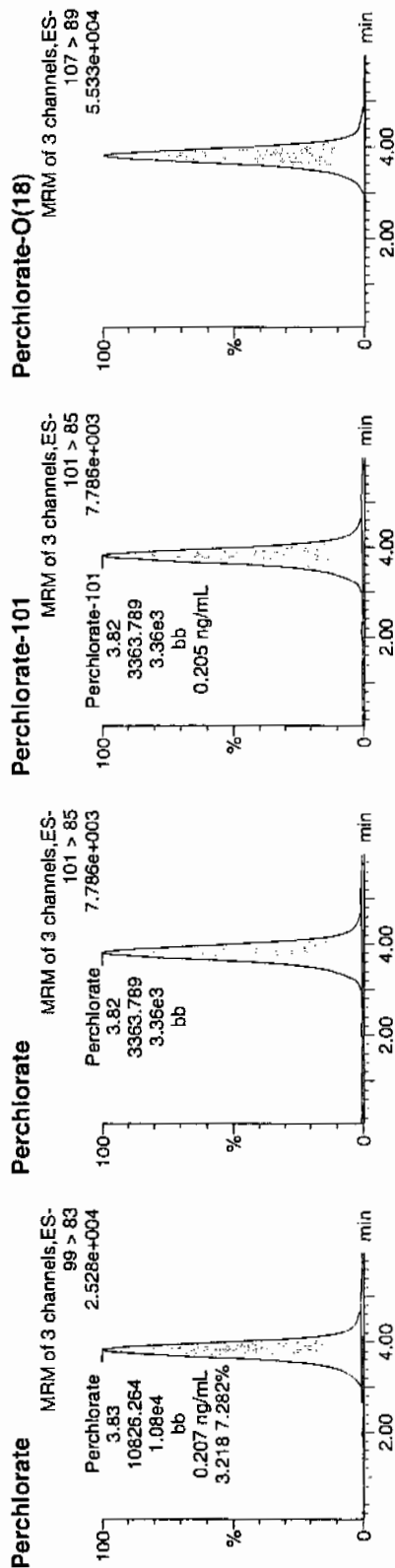
Time: 20:45:18

ID: 1202041312

Vial: 2:1,B

600
03-01-10

1202041312 | 952425 | 3020 | 65 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202041312	Perchlorate	99 > 83	3.83	10826.264	10826.264	bb			0.2068	103.40	3.40	841.206	3.22
1202041312	Perchlorate-101	101 > 85	3.82	3363.789	3363.789	bb			0.2051	102.53	2.53	781.738	
1202041312	Perchlorate-Q(18)	107 > 89	3.81	23810.559	23810.559	bb			0.5162	103.23	3.23	6706.8...	

10826.264
52381.7 = 0.2068
Hnm 03/03/10

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: 952422 Verified by: Lab SOP: GL-OA-E-067 REV# 6
 Analyst: Jareth Shirley Instrument: MicroMass Quattro Ultima
 Method: SW846 6850 Modified

Sample ID	Run Date	Aliquot (g)	Prepped Aliquot (mL)	Prepped Factor (mL/g)
1202041311 NB	19-FEB-2010 16:04:00	2	20	10
1202041312 LCS	19-FEB-2010 16:04:00	2	20	10
246332001	19-FEB-2010 16:04:00	2	20	10
246332002	19-FEB-2010 16:04:00	2	20	10
246332003	19-FEB-2010 16:04:00	2	20	10
246332004	19-FEB-2010 16:04:00	2	20	10
246332005	19-FEB-2010 16:04:00	2	20	10
246332006	19-FEB-2010 16:04:00	2	20	10
246332007	19-FEB-2010 16:04:00	2	20	10
246332008	19-FEB-2010 16:04:00	2	20	10
246332009	19-FEB-2010 16:04:00	2	20	10
246336001	19-FEB-2010 16:04:00	2	20	10
1202041313 MS (246336001)	19-FEB-2010 16:04:00	2	20	10
1202041314 MSD (246336001)	19-FEB-2010 16:04:00	2	20	10
246336002	19-FEB-2010 16:04:00	2	20	10
246336003	19-FEB-2010 16:04:00	2	20	10
246336004	19-FEB-2010 16:04:00	2	20	10
246336005	19-FEB-2010 16:04:00	2	20	10
246336006	19-FEB-2010 16:04:00	2	20	10
246336007	19-FEB-2010 16:04:00	2	20	10
246336008	19-FEB-2010 16:04:00	2	20	10
246336009	19-FEB-2010 16:04:00	2	20	10
1202041315 ICS	19-FEB-2010 16:04:00	2	20	10

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments
ICS	1202041315	10 ug/L ICVCCV Second Source	UCL100210-02.1	.4	mL	Desulphing cartridges used: 090810-1-Ba & 100112-1-H
LCS	1202041312	10 ug/L ICVCCV Second Source	UCL100210-02.1	.4	mL	
MS	1202041313	10 ug/L ICVCCV Second Source	UCL100210-02.1	.4	mL	
MSD	1202041314	10 ug/L ICVCCV Second Source	UCL100210-02.1	.4	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 02/28/10
Extr. Injection Volume: 20uL
Sequence Number: per022810a
Initial Calibration Date: 02/28/10

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

Reviewed BY: *hm*
Date: *03/12/10*
SOP: GL-OA-E-067 Rev.6
Alt Check Std. ID: WCL100227-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0228001a	IPB001	CWW	2/28/2010 13:21			1		USE	B
per0228002a	IPB001	CWW	2/28/2010 13:31			1		USE	B
per0228003a	WCLICAL-01	CWW	2/28/2010 13:40			1		USE	I
per0228004a	WCLICAL-02	CWW	2/28/2010 13:49			1		USE	I
per0228005a	WCLICAL-03	CWW	2/28/2010 13:58			1		USE	I
per0228006a	WCLICAL-04	CWW	2/28/2010 14:07			1		USE	I
per0228007a	WCLICAL-05	CWW	2/28/2010 14:16			1		USE	I
per0228008a	IPB002	CWW	2/28/2010 14:25			1		USE	B
per0228009a	WCLICV	CWW	2/28/2010 14:34			1		USE	C
per0228010a	IPB003	CWW	2/28/2010 14:43			1		USE	B
per0228011a	WCLCRI	CWW	2/28/2010 14:52			1		USE	C
per0228012a	1202055810	CWW	2/28/2010 15:01	958567	WP10-1	1	PTQA	USE	S
per0228013a	1202055812	CWW	2/28/2010 15:10	958567	WP10-1	1	PTQA	USE	S
per0228014a	247883002	CWW	2/28/2010 15:19	958567	WP10-1	50	PTQA	USE	S
per0228015a	1202055811	CWW	2/28/2010 15:28	958567	WP10-1	50	PTQA	USE	S
per0228016a	WCLCCV	CWW	2/28/2010 15:37			1		USE	C
per0228017a	IPB004	CWW	2/28/2010 15:46			1		USE	B
per0228018a	WCLCRI	CWW	2/28/2010 15:55			1		USE	C
per0228019a	1202055394	CWW	2/28/2010 16:04	958431	10-2019	1	LANL	USE	S
per0228020a	1202055395	CWW	2/28/2010 16:13	958431	10-2019	1	LANL	USE	S
per0228021a	1202055398	CWW	2/28/2010 16:22	958431	10-2019	1	LANL	USE	S
per0228022a	247913001	CWW	2/28/2010 16:31	958431	10-2019	1	LANL	USE	S
per0228023a	1202055396	CWW	2/28/2010 16:40	958431	10-2019	1	LANL	USE	S
per0228024a	1202055397	CWW	2/28/2010 16:49	958431	10-2019	1	LANL	USE	S
per0228025a	247913002	CWW	2/28/2010 16:58	958431	10-2019	1	LANL	USE	S
per0228026a	WCLCCV	CWW	2/28/2010 17:07			1		USE	C
per0228027a	IPB005	CWW	2/28/2010 17:16			1		USE	B
per0228028a	WCLCRI	CWW	2/28/2010 17:26			1		USE	C
per0228029a	1202055275	CWW	2/28/2010 17:35	958362	IDOC-KW-6850-S	1	QCQA	DUSE-RE	S

per0228030a	1202055276	CWW	2/28/2010 17:44	958362	IDOC-KW-6850-S	1	QCQA	DUSE-RE	S
per0228031a	1202055277	CWW	2/28/2010 17:53	958362	IDOC-KW-6850-S	1	QCQA	DUSE-RE	S
per0228032a	1202055278	CWW	2/28/2010 18:02	958362	IDOC-KW-6850-S	1	QCQA	DUSE-RE	S
per0228033a	1202055279	CWW	2/28/2010 18:11	958362	IDOC-KW-6850-S	1	QCQA	DUSE-RE	S
per0228034a	1202055280	CWW	2/28/2010 18:20	958362	IDOC-KW-6850-S	1	QCQA	DUSE-RE	S
per0228035a	248195001	CWW	2/28/2010 18:29	958362	IDOC-KW-6850-S	1	QCQA	DUSE-RE	S
per0228036a	WCLCCV	CWW	2/28/2010 18:38			1		USE	C
per0228037a	IPB006	CWW	2/28/2010 18:47			1		USE	B
per0228038a	WCLCRI	CWW	2/28/2010 18:56			1		USE	C
per0228039a	1202055269	CWW	2/28/2010 19:05	958360	IDOC-KW-6850-W	1	QCQA	DUSE-RE	S
per0228040a	1202055270	CWW	2/28/2010 19:14	958360	IDOC-KW-6850-W	1	QCQA	DUSE-RE	S
per0228041a	1202055271	CWW	2/28/2010 19:23	958360	IDOC-KW-6850-W	1	QCQA	DUSE-RE	S
per0228042a	1202055272	CWW	2/28/2010 19:32	958360	IDOC-KW-6850-W	1	QCQA	DUSE-RE	S
per0228043a	1202055273	CWW	2/28/2010 19:41	958360	IDOC-KW-6850-W	1	QCQA	DUSE-RE	S
per0228044a	1202055274	CWW	2/28/2010 19:50	958360	IDOC-KW-6850-W	1	QCQA	DUSE-RE	S
per0228045a	248193001	CWW	2/28/2010 19:59	958360	IDOC-KW-6850-W	1	QCQA	DUSE-RE	S
per0228046a	WCLCCV	CWW	2/28/2010 20:08			1		USE	C
per0228047a	IPB007	CWW	2/28/2010 20:18			1		USE	B
per0228048a	WCLCRI	CWW	2/28/2010 20:27			1		USE	C
per0228049a	1202041311	CWW	2/28/2010 20:36	952425	VARIOUS	1	LANL	USE	S
per0228050a	1202041312	CWW	2/28/2010 20:45	952425	VARIOUS	1	LANL	USE	S
per0228051a	1202041315	CWW	2/28/2010 20:54	952425	VARIOUS	1	LANL	USE	S
per0228052a	246322001	CWW	2/28/2010 21:03	952425	10-1565	1	LANL	USE	S
per0228053a	246322002	CWW	2/28/2010 21:12	952425	10-1565	1	LANL	USE	S
per0228054a	246322003	CWW	2/28/2010 21:21	952425	10-1565	1	LANL	USE	S
per0228055a	246322004	CWW	2/28/2010 21:30	952425	10-1565	1	LANL	USE	S
per0228056a	246322005	CWW	2/28/2010 21:39	952425	10-1565	1	LANL	USE	S
per0228057a	246322006	CWW	2/28/2010 21:48	952425	10-1565	1	LANL	USE	S
per0228058a	246322007	CWW	2/28/2010 21:57	952425	10-1565	1	LANL	USE	S
per0228059a	WCLCCV	CWW	2/28/2010 22:06			1		USE	C
per0228060a	IPB008	CWW	2/28/2010 22:15			1		USE	B
per0228061a	WCLCRI	CWW	2/28/2010 22:24			1		USE	C
per0228062a	246322008	CWW	2/28/2010 22:33	952425	10-1565	1	LANL	USE	S
per0228063a	246322009	CWW	2/28/2010 22:43	952425	10-1565	1	LANL	USE	S
per0228064a	246336001	CWW	2/28/2010 22:52	952425	10-1568-1	1	LANL	USE	S
per0228065a	1202041313	CWW	2/28/2010 23:01	952425	10-1568-1	1	LANL	USE	S
per0228066a	1202041314	CWW	2/28/2010 23:10	952425	10-1568-1	1	LANL	USE	S

per0228067a	246336002	CWW	2/28/2010 23:19	952425	10-1568-1	1	LANL	USE	S
per0228068a	246336003	CWW	2/28/2010 23:28	952425	10-1568-1	1	LANL	USE	S
per0228069a	246336004	CWW	2/28/2010 23:37	952425	10-1568-1	1	LANL	USE	S
per0228070a	246336005	CWW	2/28/2010 23:46	952425	10-1568-1	1	LANL	USE	S
per0228071a	246336006	CWW	2/28/2010 23:55	952425	10-1568-1	1	LANL	USE	S
per0228072a	WCLCCV	CWW	3/1/2010 0:04			1		USE	C
per0228073a	IPB009	CWW	3/1/2010 0:13			1		USE	B
per0228074a	WCLCRI	CWW	3/1/2010 0:22			1		USE	C
per0228075a	246336007	CWW	3/1/2010 0:31	952425	10-1565-1	1	LANL	DUSE-RA	S
per0228076a	246336008	CWW	3/1/2010 0:40	952425	10-1565-1	1	LANL	DUSE-RA	S
per0228077a	246336009	CWW	3/1/2010 0:50	952425	10-1565-1	1	LANL	DUSE-RA	S
per0228078a	IPB010	CWW	3/1/2010 0:59			1			B
per0228079a	1202042706	CWW	3/1/2010 1:08	953012	VARIOUS	1	LANL	DUSE-RA	S
per0228080a	1202042707	CWW	3/1/2010 1:17	953012	VARIOUS	1	LANL	DUSE-RA	S
per0228081a	1202042712	CWW	3/1/2010 1:26	953012	VARIOUS	1	LANL	DUSE-RA	S
per0228082a	246574002	CWW	3/1/2010 1:35	953012	10-1679	1	LANL	DUSE-RA	S
per0228083a	246598002	CWW	3/1/2010 1:44	953012	10-1696	1	LANL	DUSE-RA	S
per0228084a	WCLCCV	CWW	3/1/2010 1:53			1		DUSE	C
per0228085a	IPB011	CWW	3/1/2010 2:03			1		DUSE	B
per0228086a	WCLCRI	CWW	3/1/2010 2:12			1		DUSE	C

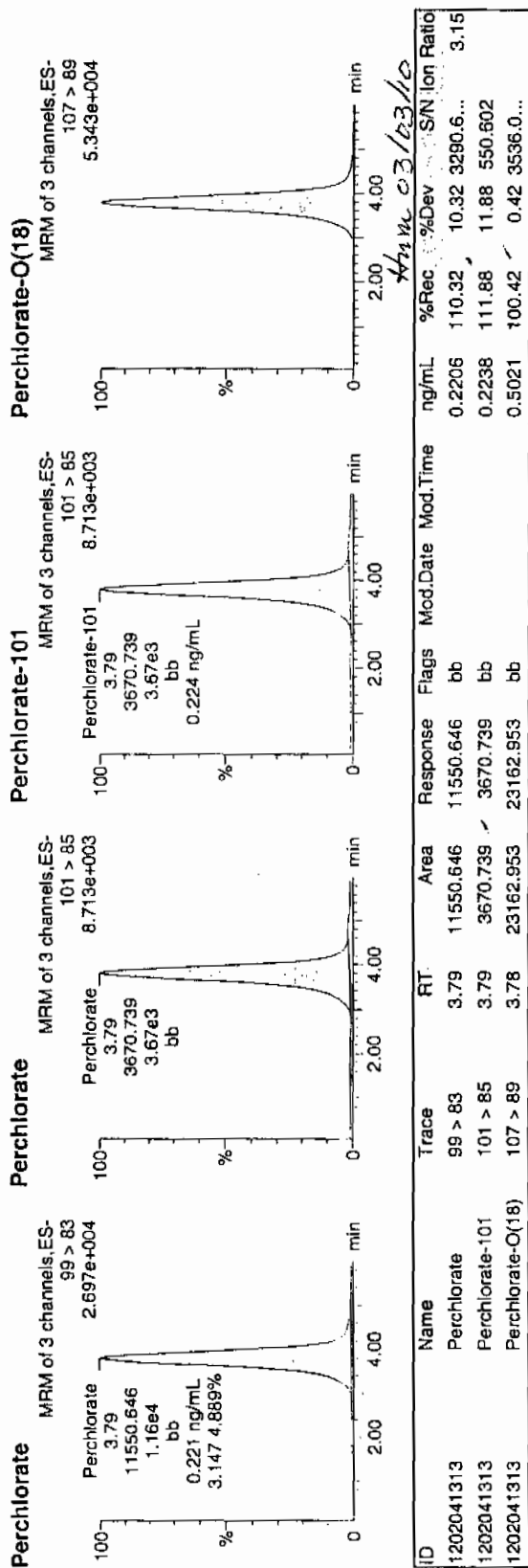
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Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228065a
Date: 28-Feb-2010
Time: 23:01:08
ID: 1202041313
Vial: 2:3,B

W3
03-01-10

1202041313 | 3000 | MS | 11



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

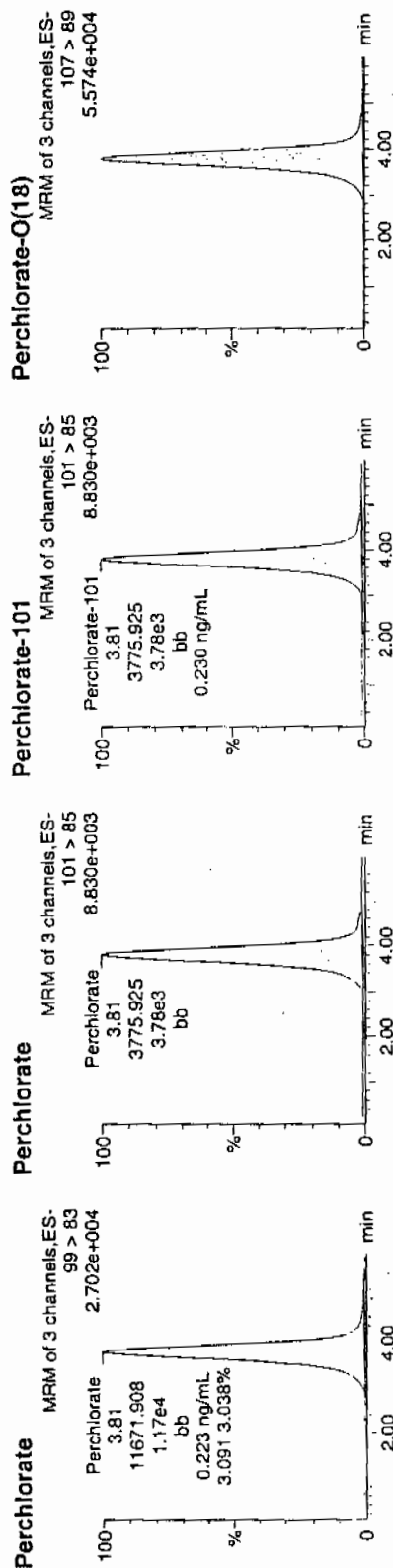
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Last Altered: Monday, March 01, 2010 7:59:33 AM Eastern Standard Time
Printed: Monday, March 01, 2010 8:10:40 AM Eastern Standard Time

Name: per0228066a
Date: 28-Feb-2010
Time: 23:10:10
ID: 1202041314
Vial: 2:3C

LANU | 952425 | 5000 | MSD | 11

03-01-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202041314	Perchlorate	99 > 83	3.81	11671.908	11671.908	bb			0.2230	111.48	11.48	1342.1...	3.09
1202041314	Perchlorate-101	101 > 85	3.81	3775.925	3775.925	bb			0.2302	115.09	15.09	1069.5...	
1202041314	Perchlorate-O(18)	107 > 89	3.76	23733.184	23733.184	bb			0.5145	102.90	2.90	1376.3...	

LC/MS/MS PERCHLORATE ANALYSIS

**Perchlorate by LC/MSMS
Los Alamos National Laboratory (LANL)
SDG 10-1565-1**

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: 950042

Prep Batch Number: 950041

Sample Analysis

Sample ID	Client ID
246323001	RE15-10-7344
1202035613	Interference Check Sample (ICS)
1202035609	Method Blank (MB)
1202035610	Laboratory Control Sample (LCS)
1202035611	246292001(RE16-10-1495) Matrix Spike (MS)
1202035612	246292001(RE16-10-1495) Matrix Spike Duplicate (MSD)

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

Preparation/Analytical Method Verification

SOP Reference

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

Calibration Information

Initial Calibration

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

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.

10-1565-1-PERLCMS

Page 1 of 4

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 246292001 (RE16-10-1495) from SDG 10-1554-1 was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries were within the established acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

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

Retention Time Standard Area Acceptance

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

Retention Time

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

Technical Information

Holding Time Specifications

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

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

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

Miscellaneous Information

Data Exception (DER) Documentation

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

Manual Integrations

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

Method Comments

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

Additional Comments

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

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

Perchlorate Isotope Ratio

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

System Configuration

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

Chromatographic Columns

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

Dionex: IonPac AG-16 2 x 50 mm.

Certification Statement

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

Review Validation:

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

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

Reviewer: Heather Mauer Date: 02/24/10

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: 950041
 Extraction Type: Filter/DAI
 Sample Volume/Weight: 10.0 mL
 Concentrated Extract Volume: 10.0
 Client Sample No. RE15-10-7344
 Date Received: 05-FEB-10
 GEL Job No (SDG): 10-1565-1
 GEL Sample ID: 246323001
 Date Filtered: 12-FEB-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	17-FEB-10 06:20	per0216096a
	Perchlorate Isotope Ratio						1	17-FEB-10 06:20	per0216096a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	17-FEB-10 06:20	per0216096a
	Perchlorate-O(18)			0.487	ug/L		1	17-FEB-10 06:20	per0216096a

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

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

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-1565-1

Extract Batch Code: 950041

Date Filtered: 12-FEB-10

Matrix: WATER

Sample ID: 1202035610

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.211	ug/L	105		85 - 115
Perchlorate Isotope Ratio		3.3				-
Perchlorate-101	0.200	.206	ug/L	103		85 - 115
Perchlorate-O(18)		.505	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): 10-1565-1

Extract Batch Code: 950041

Date Filtered: 12-FEB-10

Matrix: WATER

Sample ID: 1202035613

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	0.200	.194	ug/L	97		70 - 130
Perchlorate Isotope Ratio		3.15				
Perchlorate-101	0.200	.198	ug/L	98.8		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: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qid

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

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Date: 17-Feb-2010

Time: 02:57:35

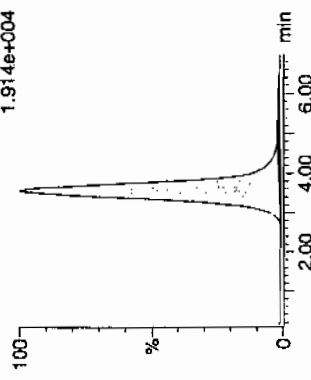
ID: 1202035613

Vial: 3:1,C

17100 | 950042 | LSC | 103 | 11 | 02.17.10

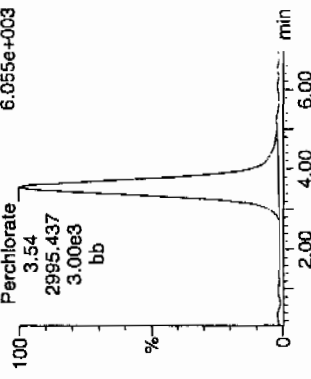
Perchlorate

MRM of 3 channels, ES-
99 > 83
1.914e+004



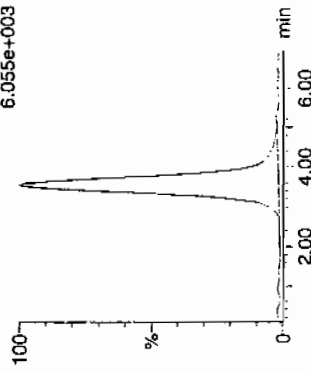
Perchlorate

MRM of 3 channels, ES-
101 > 85
6.055e+003



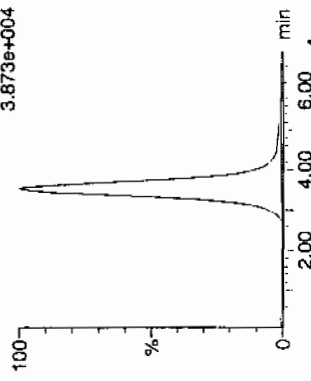
Perchlorate-101

MRM of 3 channels, ES-
101 > 85
6.055e+003



Perchlorate-O(18)

MRM of 3 channels, ES-
107 > 89
3.873e+004



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202035613	Perchlorate	99 > 83	3.54	9448.229	9448.229	bb			0.1940	97.02	-2.98	1471.0...	3.15
1202035613	Perchlorate-101	101 > 85	3.54	2995.437	2995.437	bb			0.1976	98.82	-1.18	488.094	
1202035613	Perchlorate-O(18)	107 > 89	3.53	19419.713	19419.713	bb			0.4814	96.29	-3.71	1659.2...	

Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-1565-1

Extract Batch Code: 950041

Date Extracted: 12-FEB-10

GEL MS/PS ID: 1202035611

Client ID: RE16-10-1495

GEL MSD/PSD ID: 1202035612

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	0.00193	ug/L	0.212	105		.214	106		1.25		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.39			3.41			0			-
Perchlorate-101	0.200	0.00	ug/L	0.201	100		.202	101		.507		30	75 - 125
Perchlorate-O(18)	0	0.487	ug/L	0.505			.498			1.32			-

^ 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): 10-1565-1

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	16-FEB-10	per0216001a	IPB001
Perchlorate-101	0.00	0	NA	16-FEB-10	per0216001a	IPB001
Perchlorate	0.00	0	NA	16-FEB-10	per0216002a	IPB001
Perchlorate-101	0.00	0	NA	16-FEB-10	per0216002a	IPB001

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

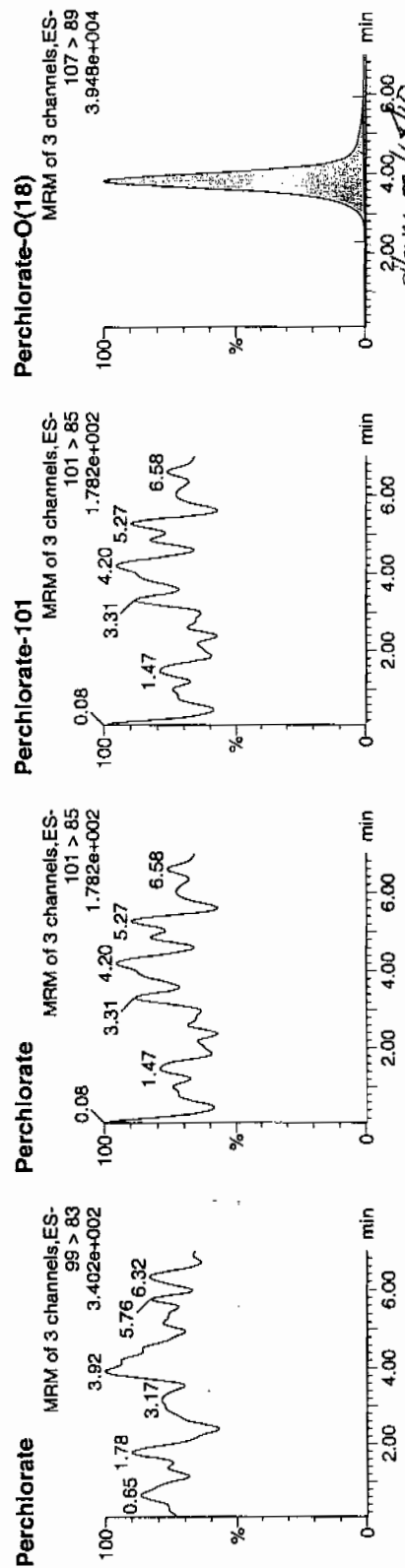
Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

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Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per021610a.mdb 17 Feb 2010 09:42:10
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per021610a.cdb 17 Feb 2010 11:03:29

Name: per0216001a
Date: 16-Feb-2010
Time: 14:21:05
ID: IPB001
Vial: 1:1,A

02-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB001	Perchlorate	99 > 83											0.00
IPB001	Perchlorate-101	101 > 85	3.82	22244.045	22244.045	bb			0.5515	110.29	✓	10.29	534.867
IPB001	Perchlorate-O(18)	107 > 89											

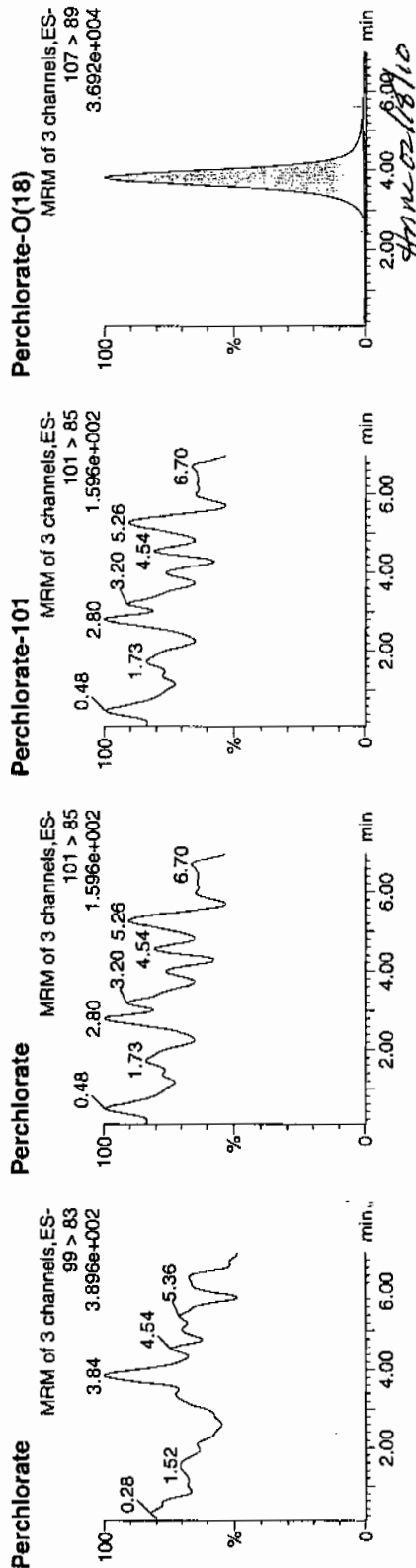
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

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Printed: Wednesday, February 17, 2010 11:13:37 AM Eastern Standard Time

Name: per0216002a
Date: 16-Feb-2010
Time: 14:31:15
ID: IPB001
Vial: 1:1,A

02-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB001	Perchlorate	99 > 83											0.00
IPB001	Perchlorate-101	101 > 85											
IPB001	Perchlorate-O(18)	107 > 89	3.81	20630.770	20630.770	bb			0.5115	102.29	2.29	947.702	

Perchlorate Continuing Calibration Blank

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

GEL Job No.(SDG): 10-1565-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

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

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	16-FEB-10	per0216008a	IPB002
Perchlorate-101	0.00	0	NA	16-FEB-10	per0216008a	IPB002
Perchlorate	0.00	0	NA	16-FEB-10	per0216010a	IPB003
Perchlorate-101	0.00	0	NA	16-FEB-10	per0216010a	IPB003
Perchlorate	0.00	0	NA	16-FEB-10	per0216023a	IPB004
Perchlorate-101	0.00	0	NA	16-FEB-10	per0216023a	IPB004
Perchlorate	0.00	0	NA	16-FEB-10	per0216036a	IPB005
Perchlorate-101	0.00	0	NA	16-FEB-10	per0216036a	IPB005
Perchlorate	0.00	0	NA	16-FEB-10	per0216039a	IPB006
Perchlorate-101	0.00	0	NA	16-FEB-10	per0216039a	IPB006
Perchlorate	0.00	0	NA	16-FEB-10	per0216049a	IPB007
Perchlorate-101	0.00	0	NA	16-FEB-10	per0216049a	IPB007
Perchlorate	0.00	0	NA	17-FEB-10	per0216061a	IPB008

Form 4

Perchlorate Continuing Calibration Blank

GEL Job No.(SDG): 10-1565-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate-101	0.00	0	NA	17-FEB-10	per0216061a	IPB008
Perchlorate	0.00	0	NA	17-FEB-10	per0216072a	IPB009
Perchlorate-101	0.00	0	NA	17-FEB-10	per0216072a	IPB009
Perchlorate	0.00	0	NA	17-FEB-10	per0216082a	IPB010
Perchlorate-101	0.00	0	NA	17-FEB-10	per0216082a	IPB010
Perchlorate	0.00	0	NA	17-FEB-10	per0216093a	IPB011
Perchlorate-101	0.00	0	NA	17-FEB-10	per0216093a	IPB011
Perchlorate	0.00	0	NA	17-FEB-10	per0216104a	IPB012
Perchlorate-101	0.00	0	NA	17-FEB-10	per0216104a	IPB012

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Page 8 of 109

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

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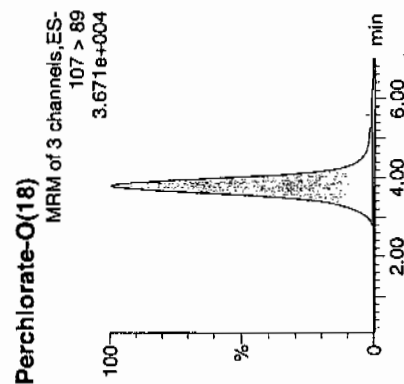
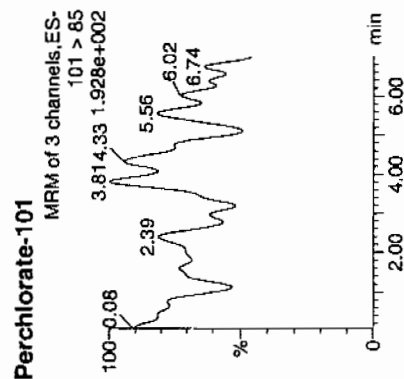
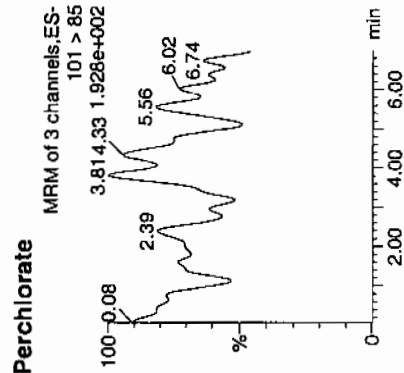
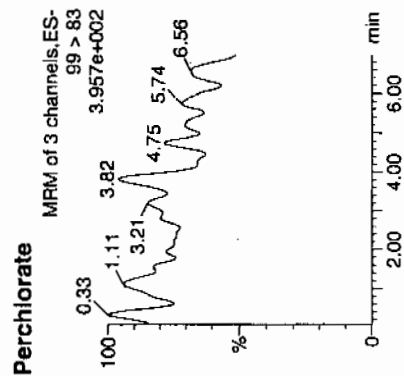
Name: per0216008a

Date: 16-Feb-2010

Time: 15:31:21

ID: IPB002

Vial: 1:1,A



ID	Name	Trace	RT	Area	Response	Flags	Mod Date	Mod Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB002	Perchlorate	99 > 83											0.00
IPB002	Perchlorate-101	101 > 85											
IPB002	Perchlorate-O(18)	107 > 89	3.78	20323.039	20323.039	bb			0.5038	100.77	-	0.77	1746.4...

02-17-10

02/17/10

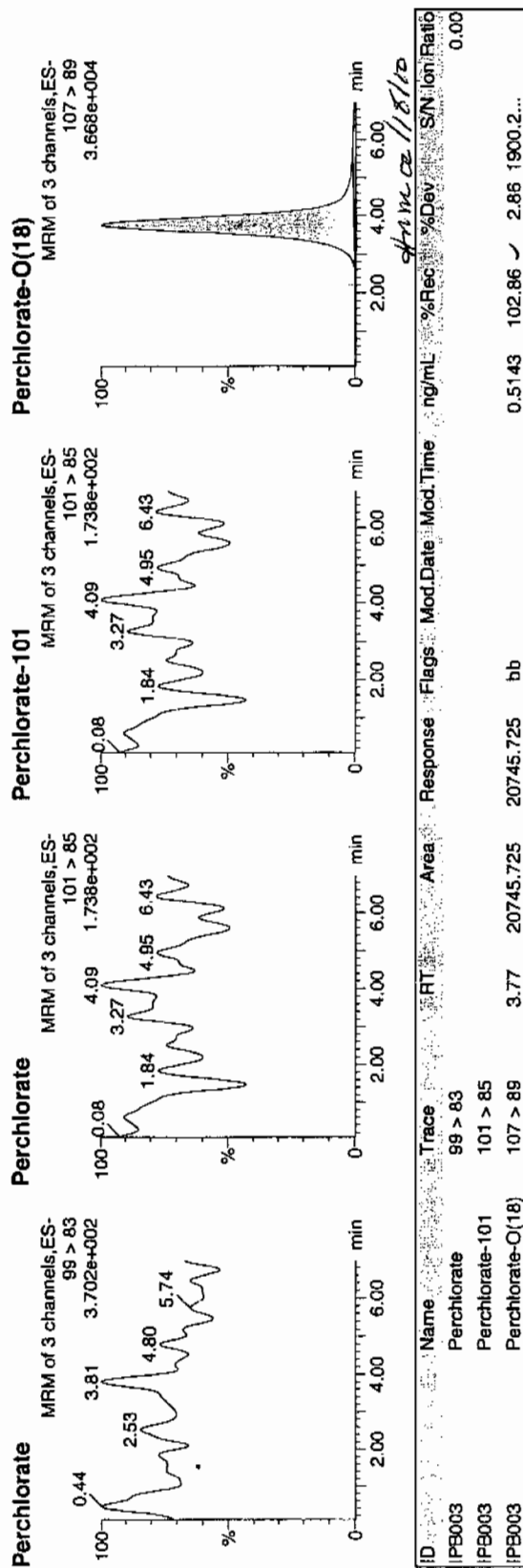
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216010a
Date: 16-Feb-2010
Time: 15:51:26
ID: IPB003
Vial: 1:1,A

32-17-10



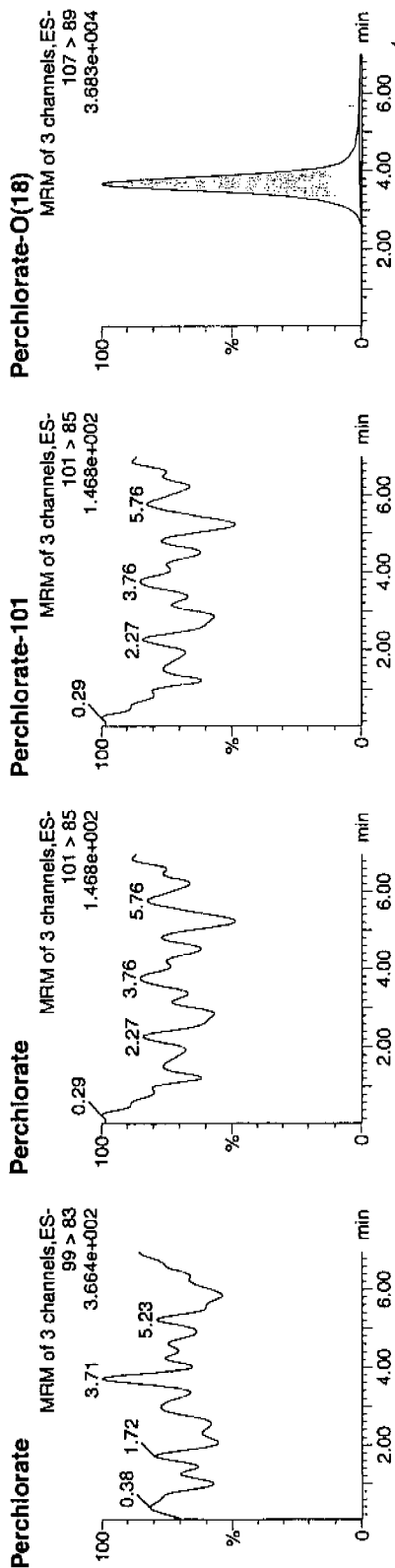
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qtd

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216023a
Date: 16-Feb-2010
Time: 18:01:56
ID: IPB004
Vial: 1:1,A

22-17-10



ID	Name	Trace	FT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
IPB004	Perchlorate	99 > 83											0.00
IPB004	Perchlorate-101	101 > 85											
IPB004	Perchlorate-O(18)	107 > 89		3.67	19909.254	3.67	19909.254	bb	0.4936	98.72	-1.28	1302.6...	

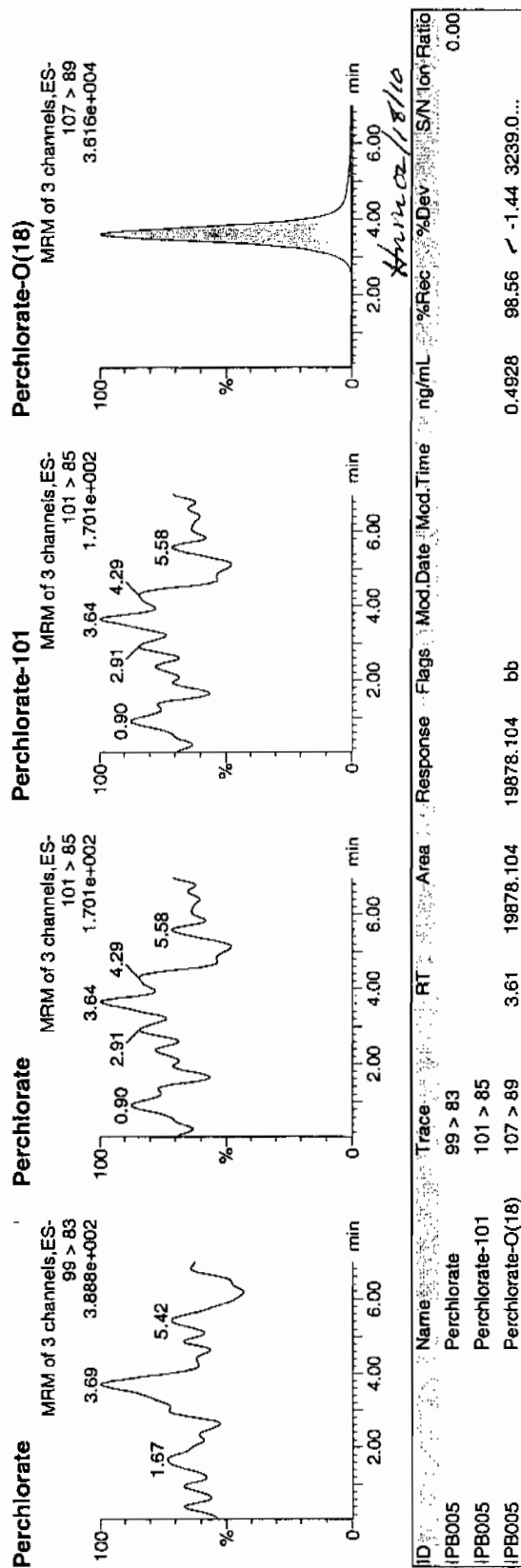
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216036a
Date: 16-Feb-2010
Time: 20:12:53
ID: IPB005
Vial: 1:1,A

02-17-10



Quantify Sample Report MassLynx 4.0 SP4

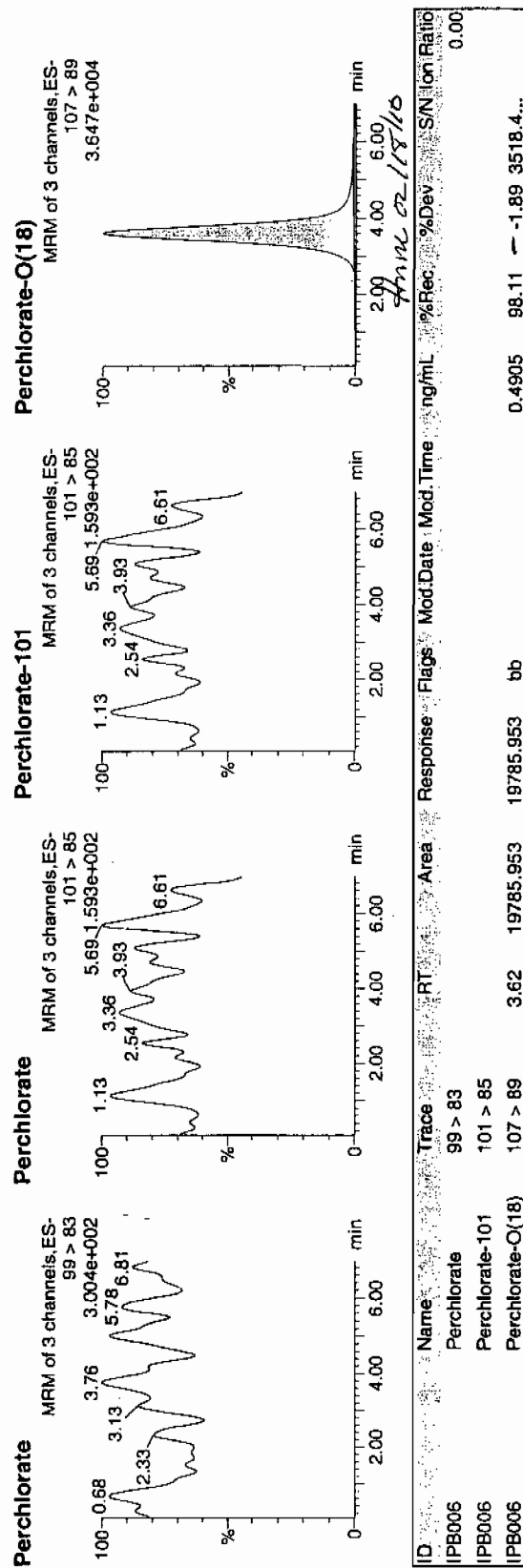
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
 Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216039a
 Date: 16-Feb-2010
 Time: 20:43:11
 ID: IPB006
 Vial: 1:1,A

02-17-10



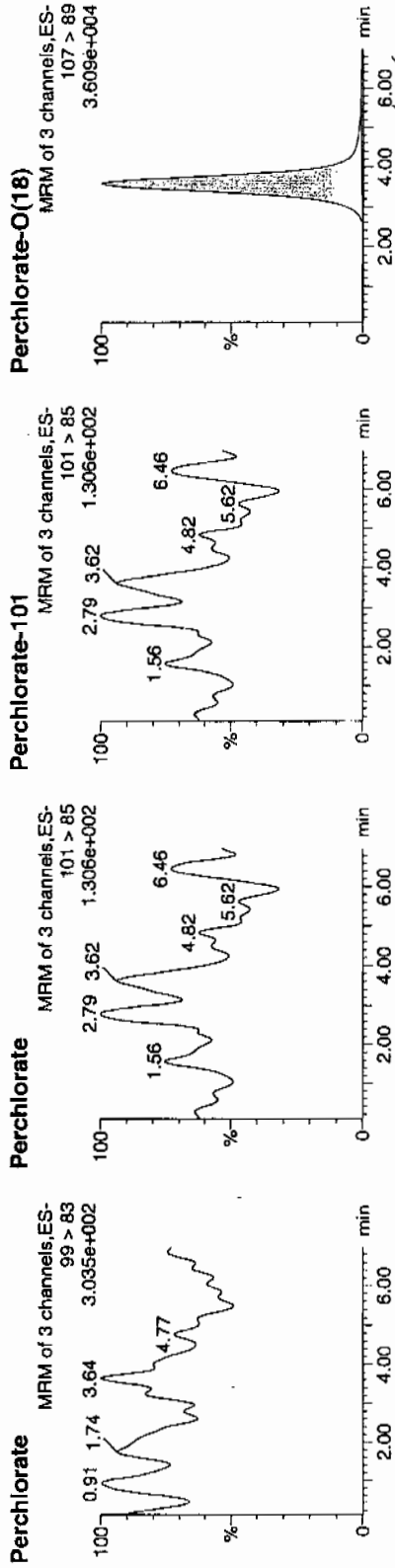
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216049a
Date: 16-Feb-2010
Time: 22:24:49
ID: IPB007
Vial: 1:1,A

02-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB007	Perchlorate	99 > 83											0.00
IPB007	Perchlorate-101	101 > 85	3.58	19511.553	19511.553	bb			0.4837	96.74	-3.26	2577.0...	
IPB007	Perchlorate-O(18)	107 > 89											

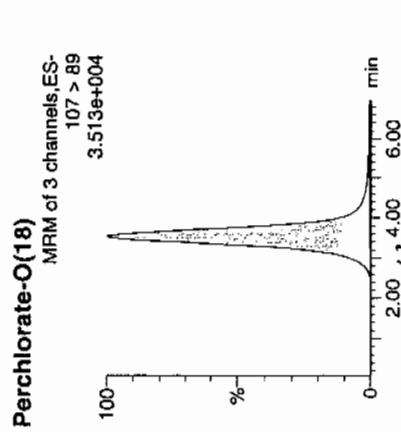
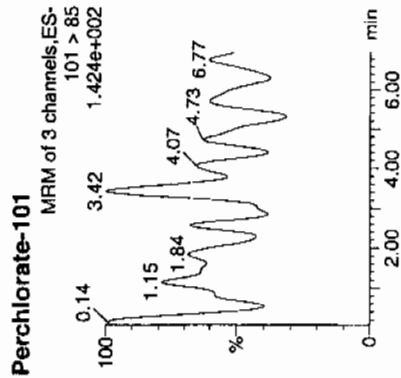
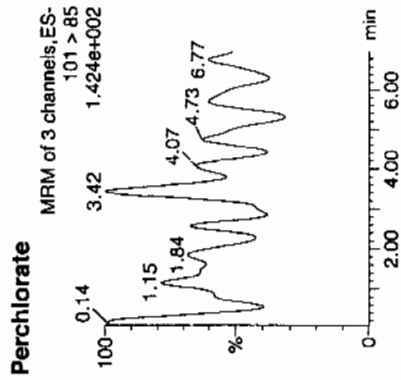
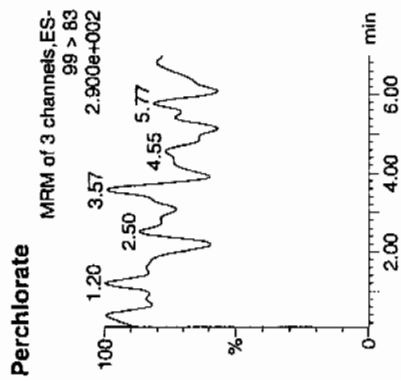
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216061a
Date: 17-Feb-2010
Time: 00:25:47
ID: IPB008
Vial: 1:1,A

Ca
02-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB008	Perchlorate	99 > 83											
IPB008	Perchlorate-101	101 > 85											
IPB008	Perchlorate-O(18)	107 > 89	3.53	19011.539	19011.539	bb			0.4713	94.27	-5.73	450.995	0.00

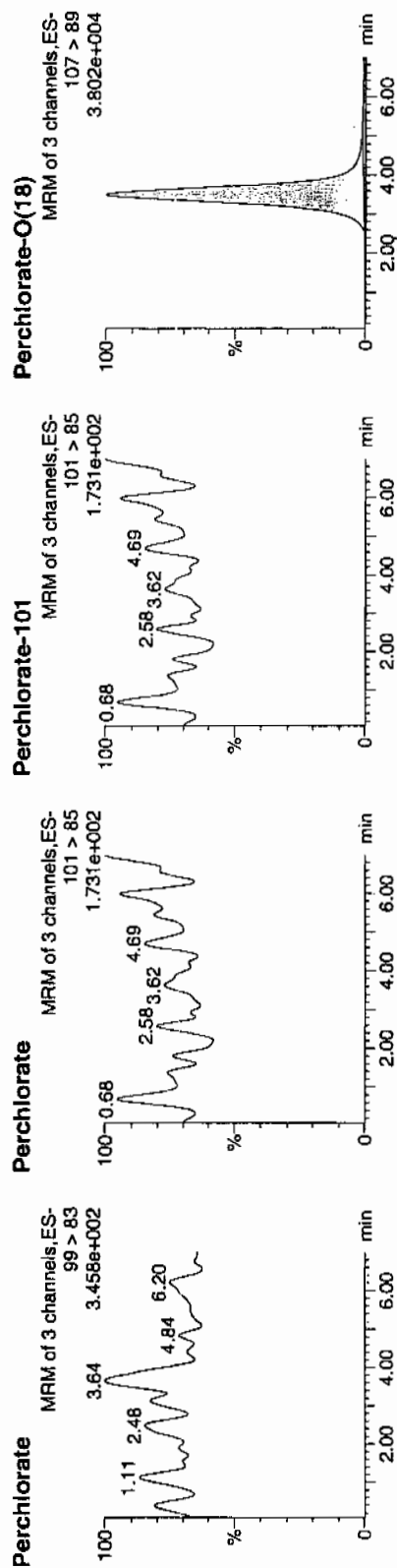
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216072a
Date: 17-Feb-2010
Time: 02:16:48
ID: IPB009
Vial: 1:1,A

02-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB009	Perchlorate	99 > 83											0.00
IPB009	Perchlorate-101	101 > 85											
IPB009	Perchlorate-O(18)	107 > 89	3.51	20058.123	20058.123	bb			0.4973	99.46	-0.54	966.944	

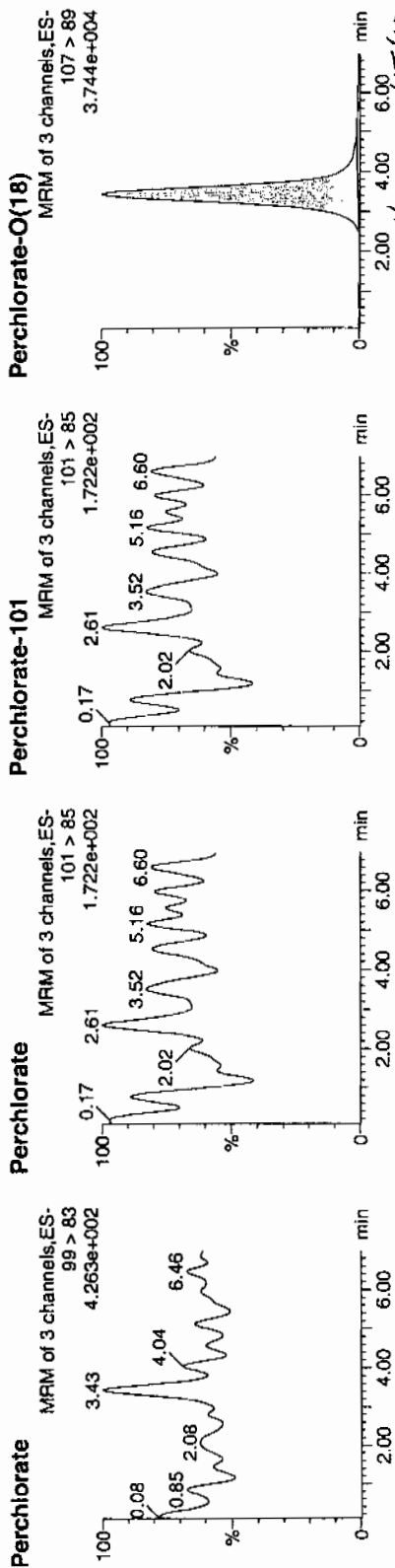
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216082a
Date: 17-Feb-2010
Time: 03:58:11
ID: IPB010
Vial: 1:1,A

02.17.10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB010	Perchlorate	99 > 83	3.43	19410.971	19410.971	bb			0.4812	96.25	-3.75	1629.3...	0.00
IPB010	Perchlorate-101	101 > 85											
IPB010	Perchlorate-O(18)	107 > 89											

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216093a

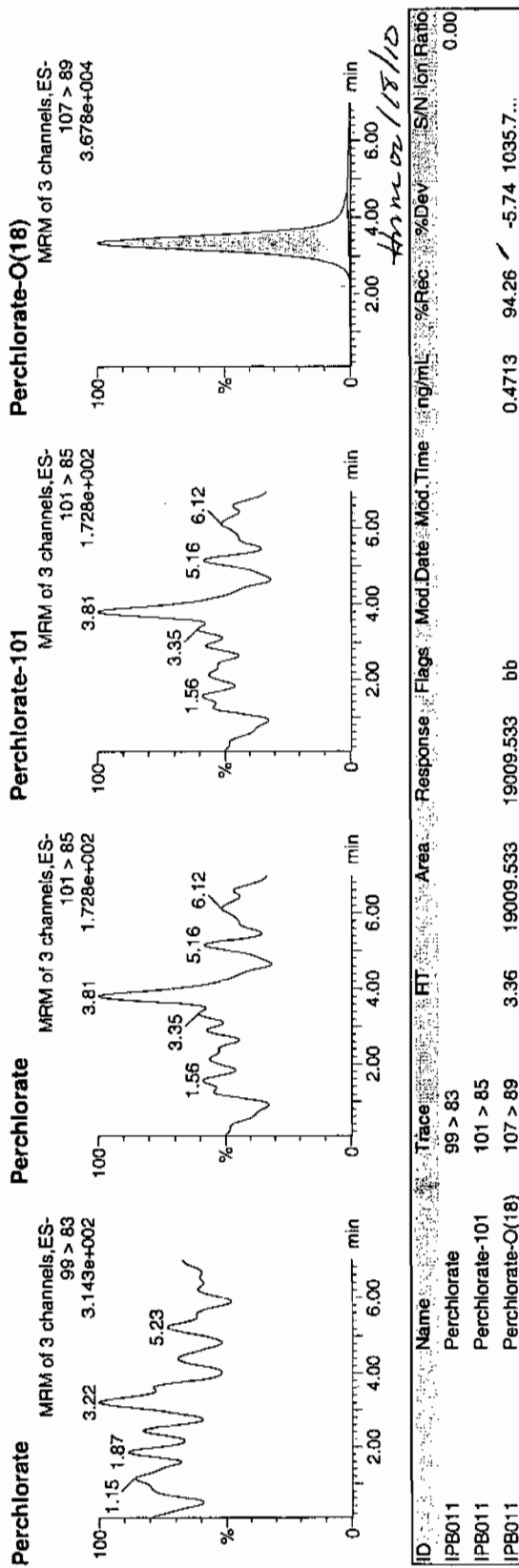
Date: 17-Feb-2010

Time: 05:49:29

ID: IPB011

Vial: 1:1,A

02-17-10



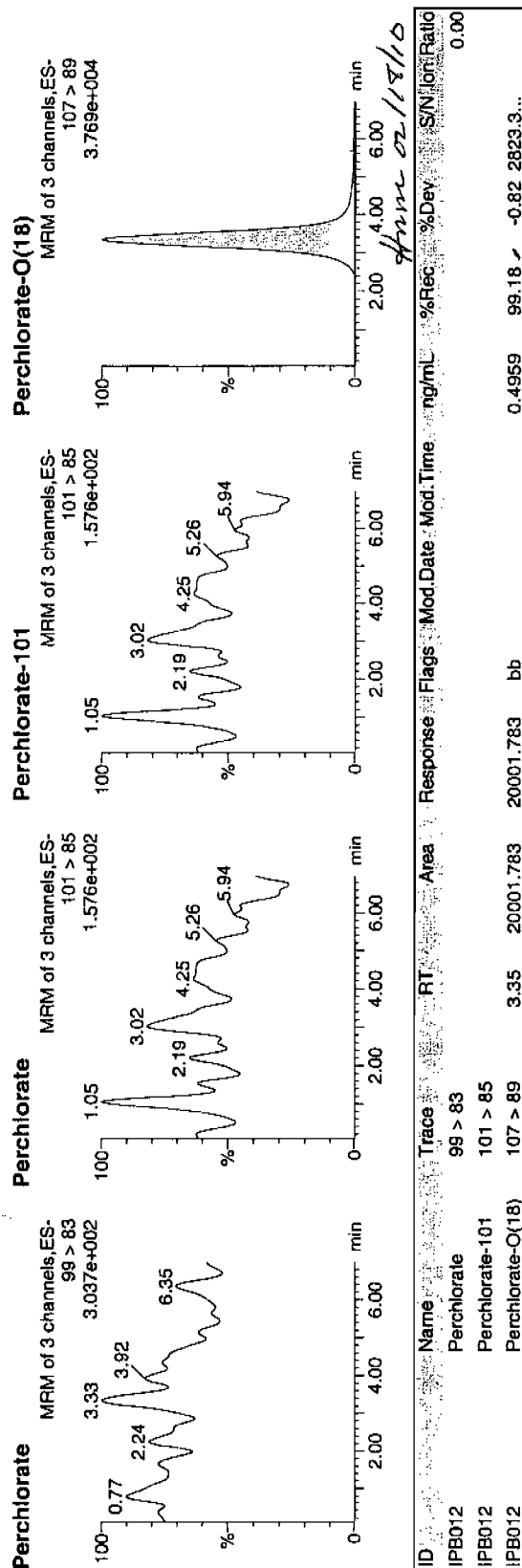
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216104a
Date: 17-Feb-2010
Time: 07:40:42
ID: IPB012
Vial: 1:1,A

02-17-10



Nairb.ref

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

Updated 20 April '95

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

QUANTO ULTIMA: nairb_01_08_08.ca

Calibration Report - MS1 Static

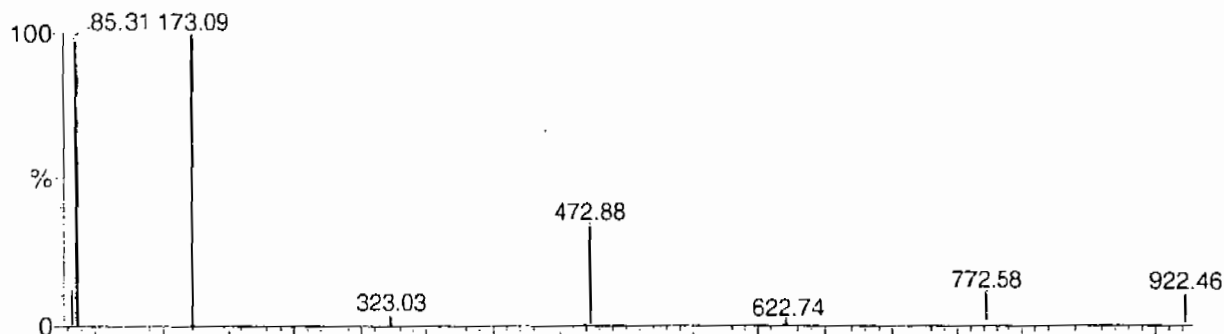
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

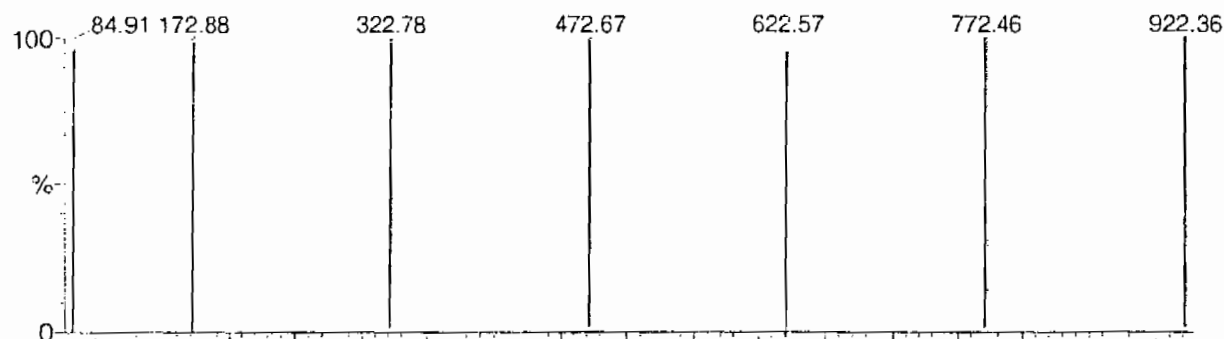
PAUSE HIGHLIGHTED BY GEL 01-01-08

Data file: STATMS1 - Uncalibrated

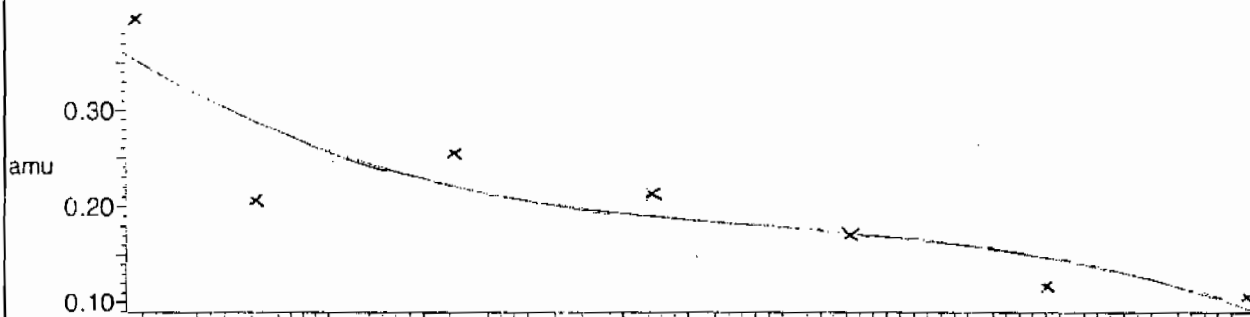
7 matches of 7 tested references



Reference file: Nairb

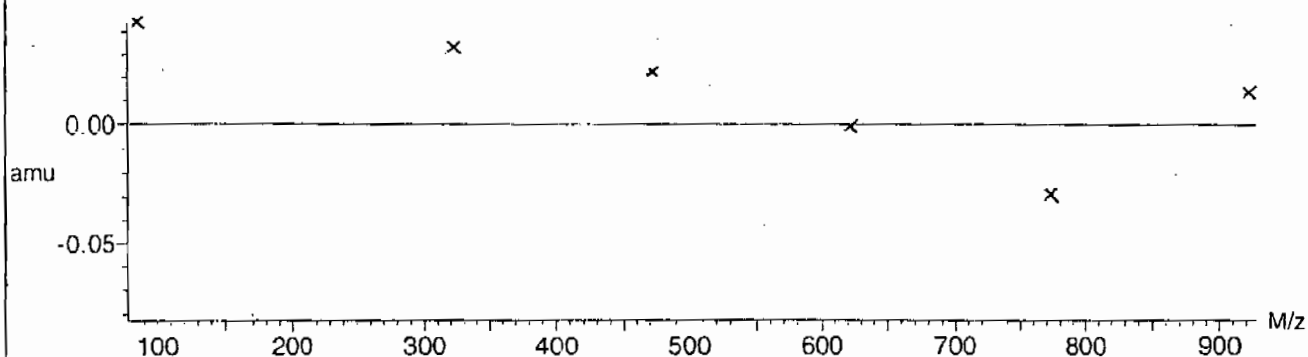


Mass difference (Raw - Ref mass)



Residuals

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



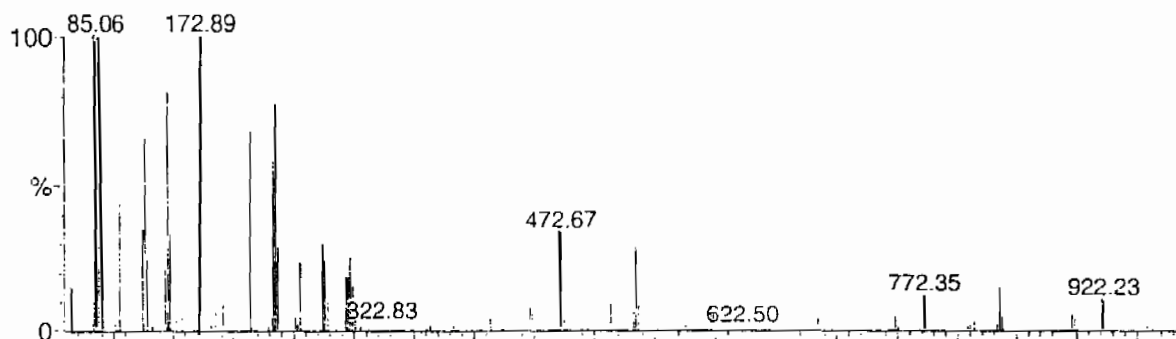
Calibration Report - MS1 Scanning

Page 1 of 1

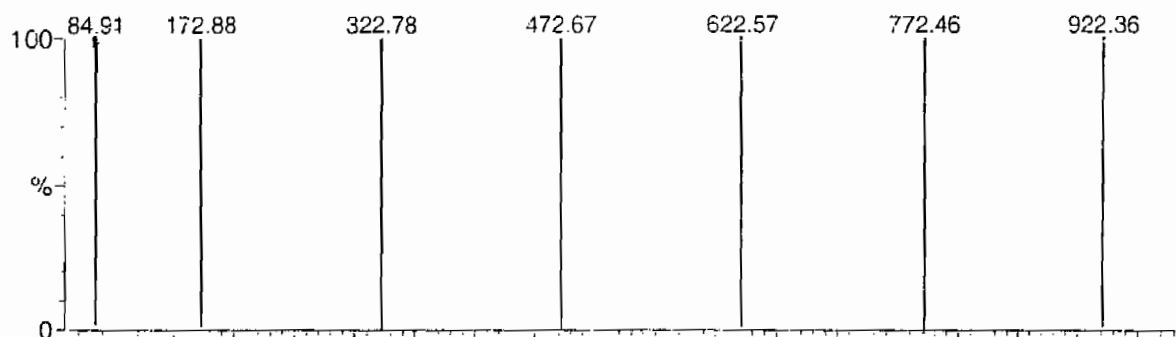
Printed: Tue Jan 08 12:20:09 2008

Data file: SCNMS1 - Uncalibrated

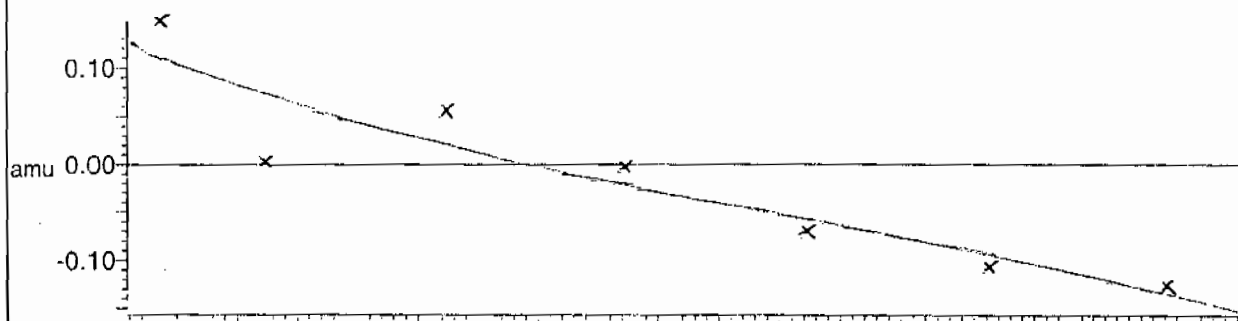
7 matches of 7 tested references



Reference file: Nairb

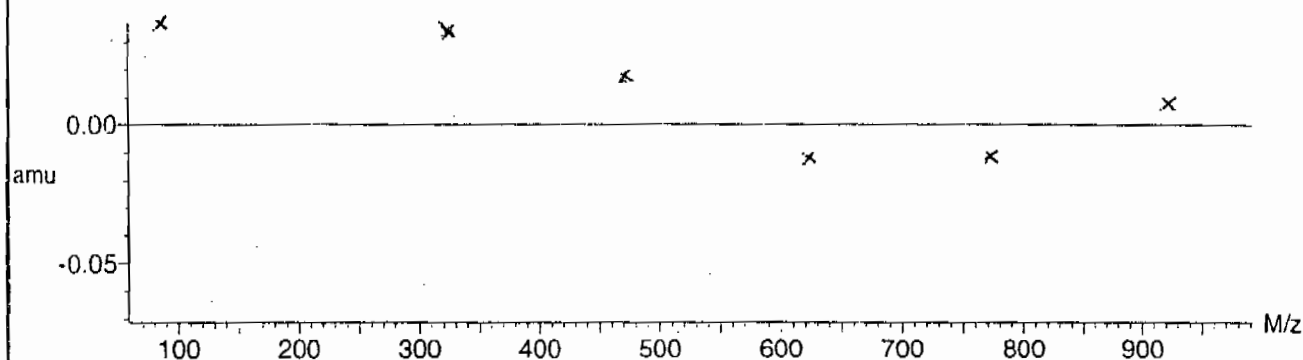


Mass difference (Raw - Ref mass)



Residuals

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



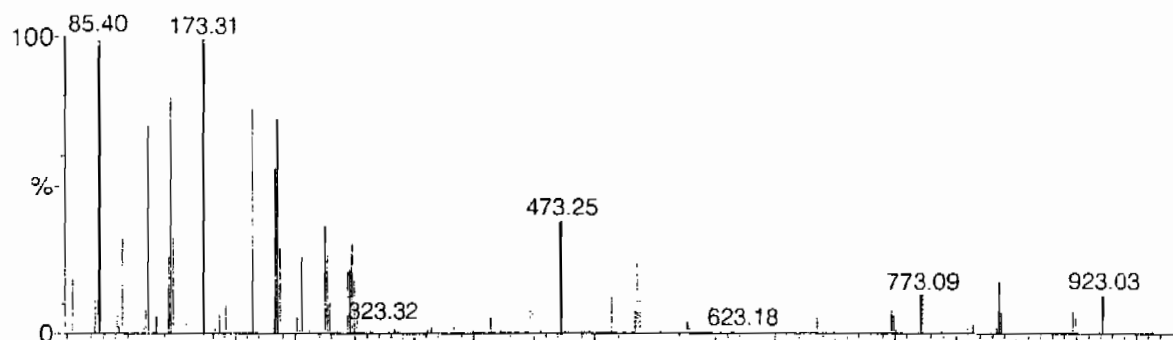
Calibration Report - MS1 Scan Speed Compensation

Page 1 of 1

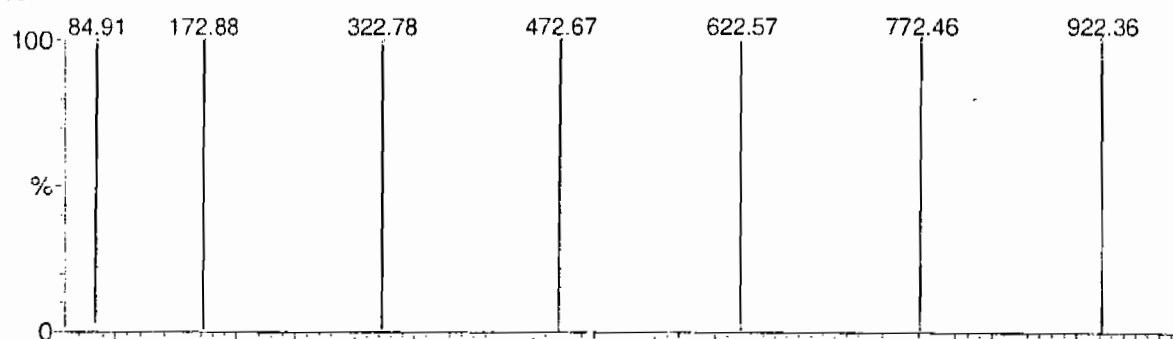
Printed: Tue Jan 08 12:21:04 2008

Data file: FASTMS1 - Uncalibrated

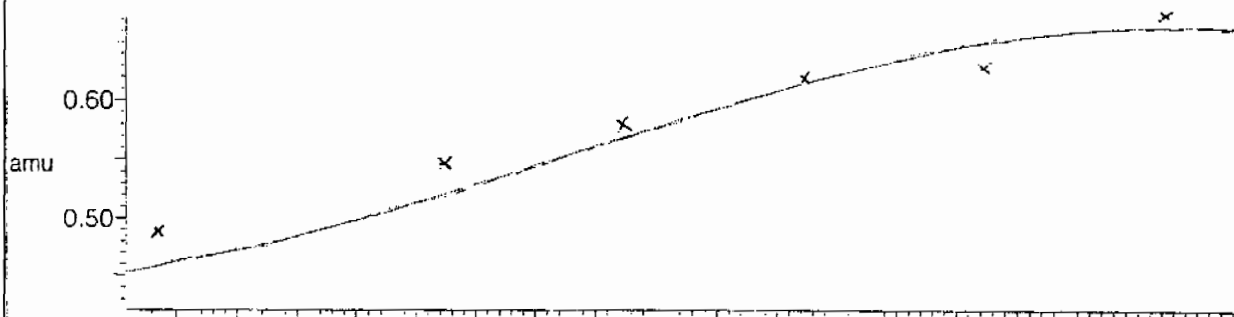
7 matches of 7 tested references



Reference file: Nairb

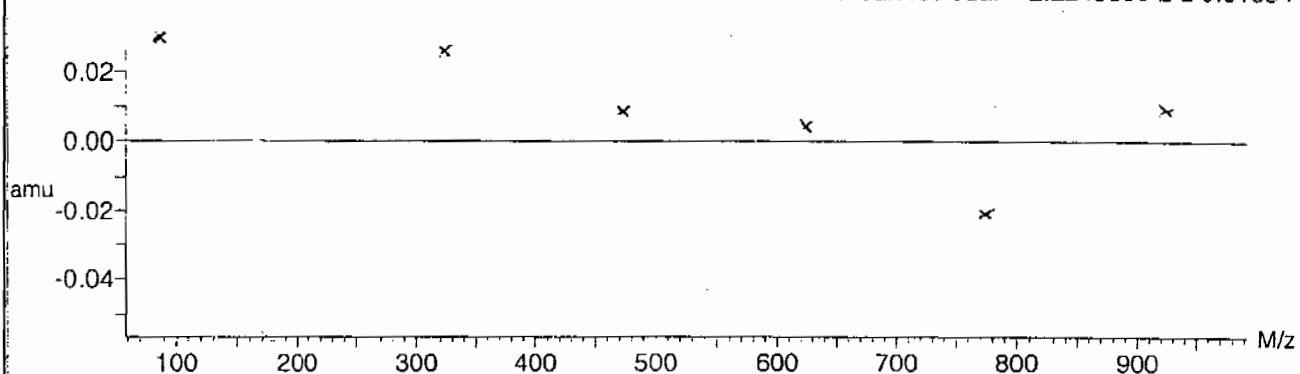


Mass difference (Raw - Ref mass)



Residuals

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



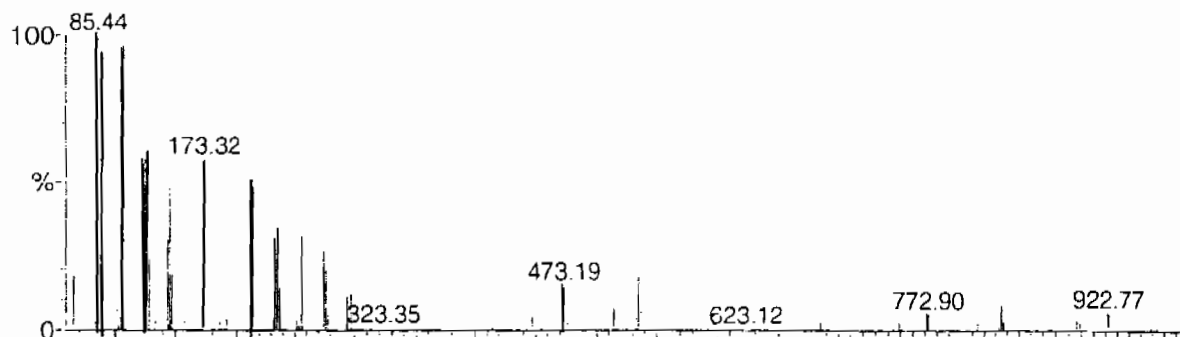
Calibration Report - MS2 Scan Speed Compensation

Page 1 of 1

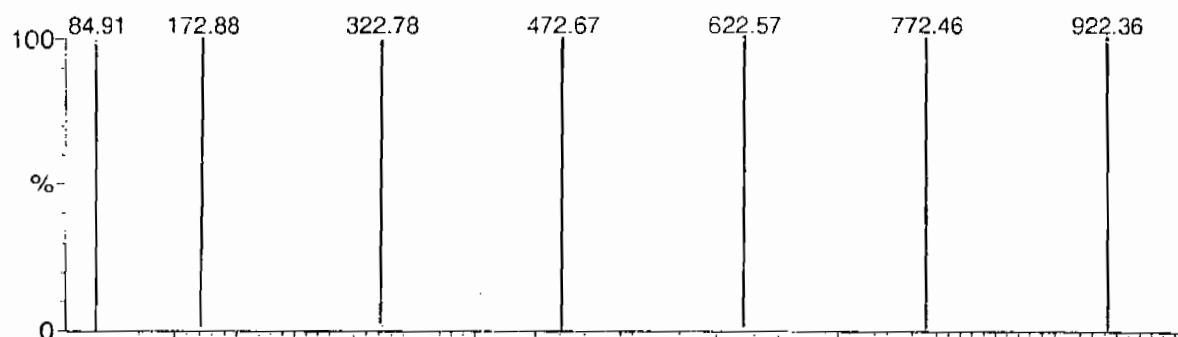
Printed: Tue Jan 08 12:23:51 2008

Data file: FASTMS2 - Uncalibrated

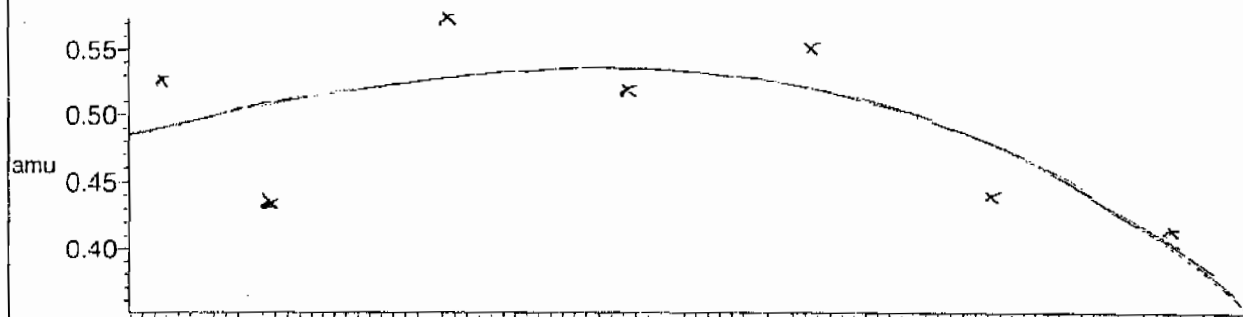
7 matches of 7 tested references



Reference file: Nairb

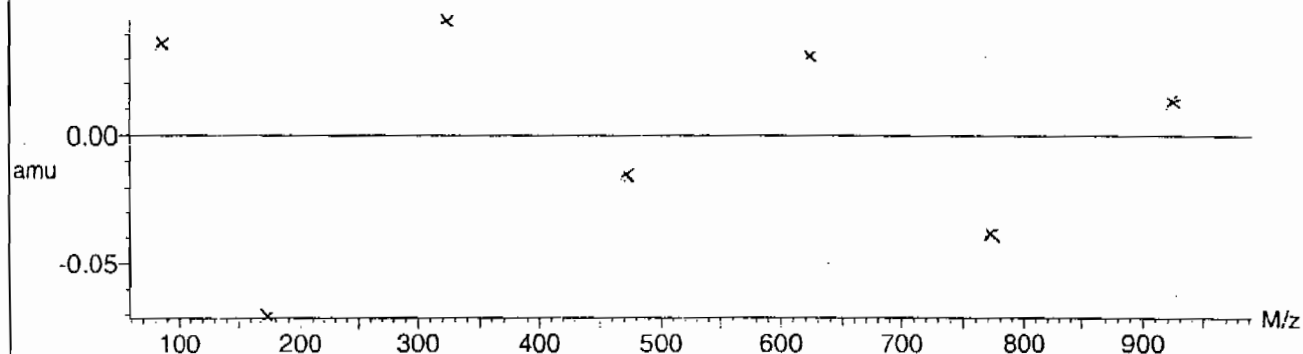


Mass difference (Raw - Ref mass)



Residuals

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

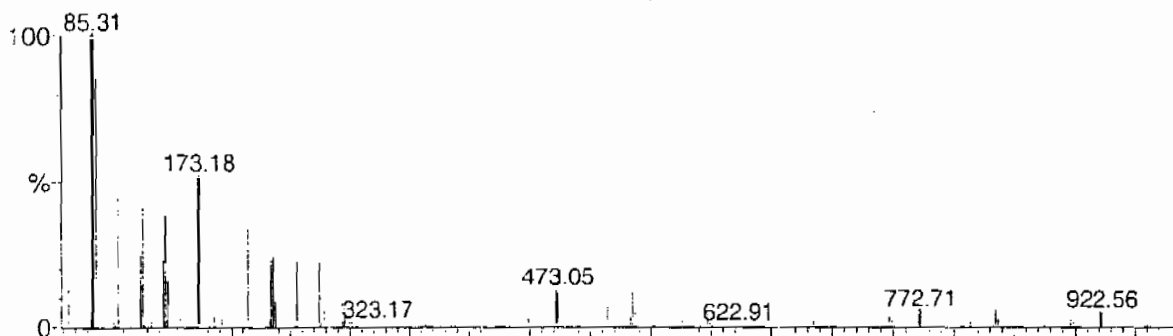


Calibration Report - MS2 Scanning

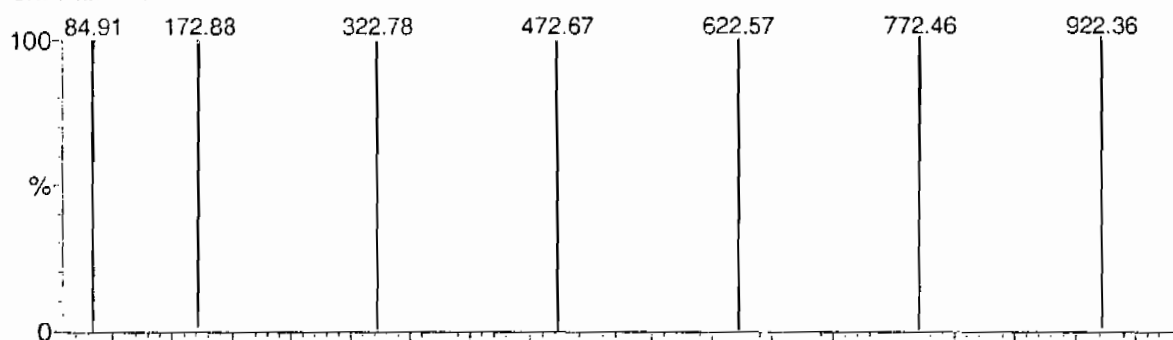
Page 1 of 1

Printed: Tue Jan 08 12:22:56 2008

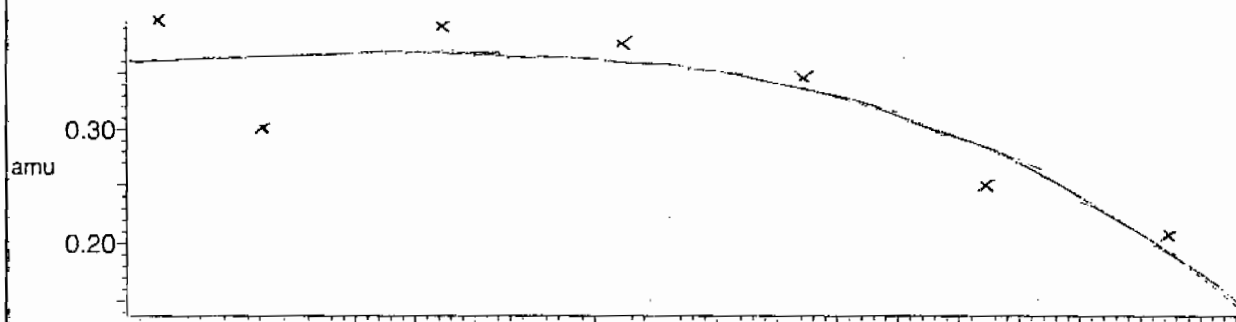
Data file: SCNMS2 - Uncalibrated 7 matches of 7 tested references



Reference file: Nairb

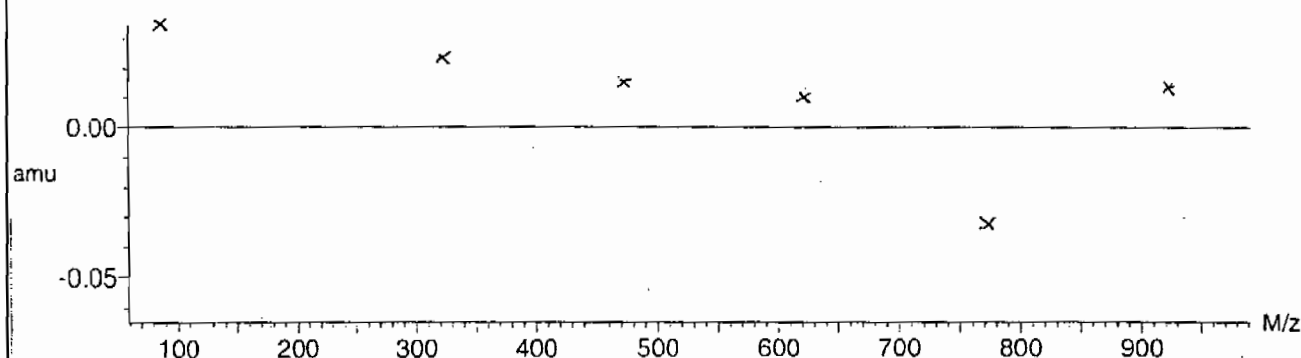


Mass difference (Raw - Ref mass)



Residuals

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



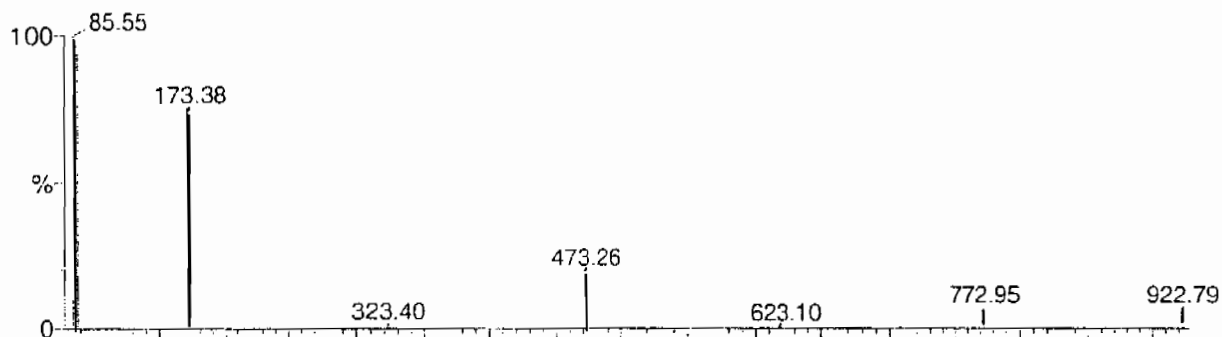
Calibration Report - MS2 Static

Page 1 of 1

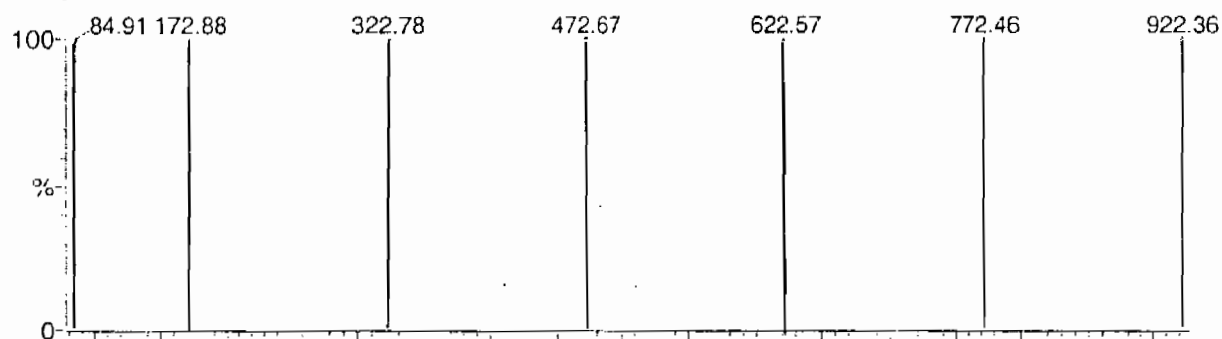
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

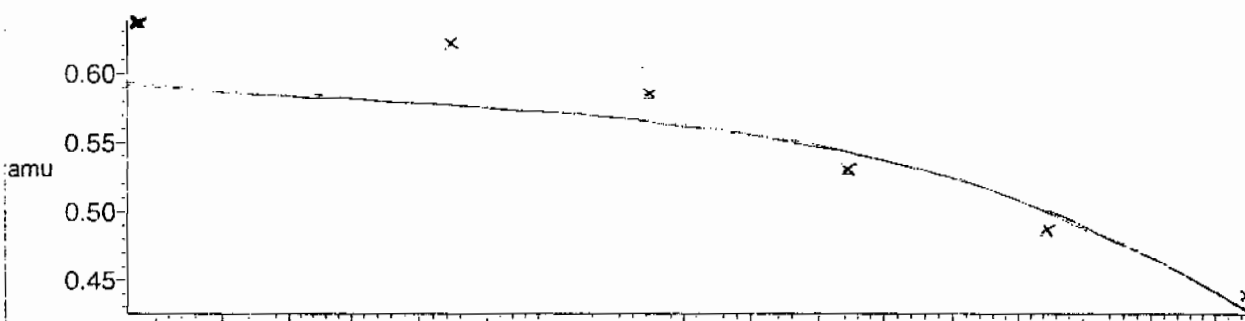
7 matches of 7 tested references



Reference file: Nairb

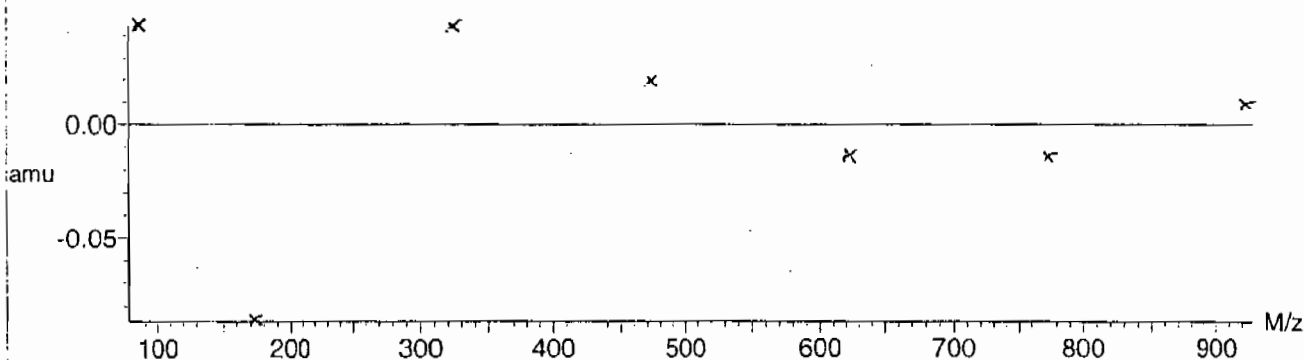


Mass difference (Raw - Ref mass)



Residuals

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



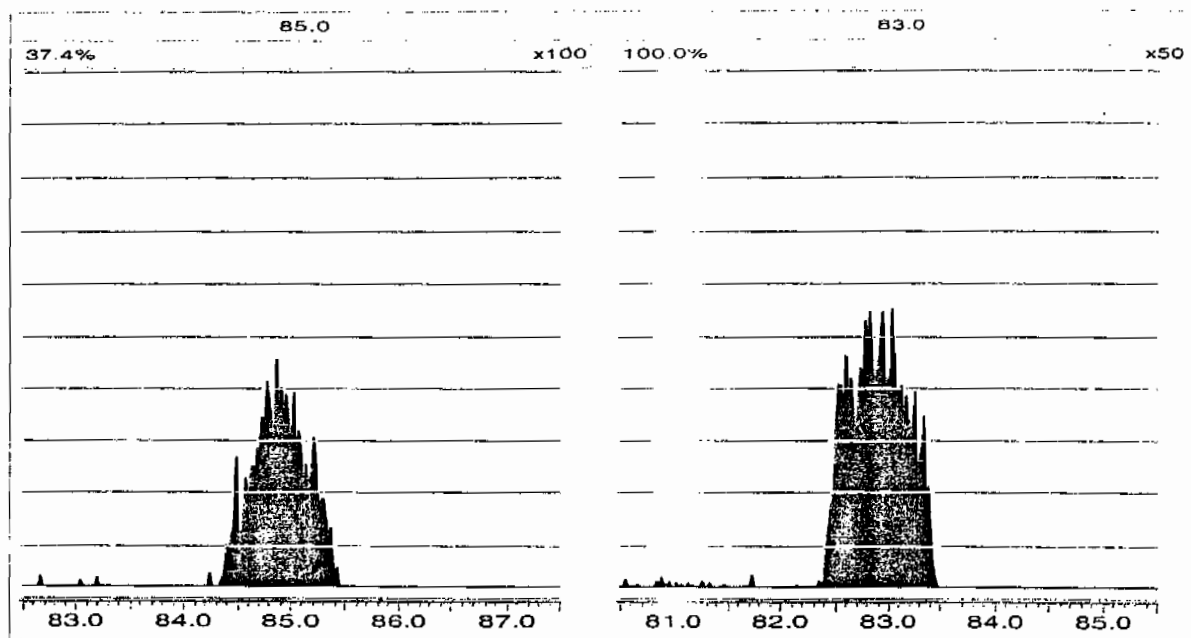
Tune Parameters

MassLynx 4.0 SP4

Page 1 of 1

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

Printed: Tuesday, February 16, 2010 10:54:24 Eastern Standard Time



Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-1565-1

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

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

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q
MidLevel Standard Area	per0216006a	16-FEB-10	19812.8				
Lower Area Limit			9906.4				
Upper Area Limit			39625.6				
1202035609	per0216074a	17-FEB-10 02:37	19327.1	3.51			
1202035610	per0216075a	17-FEB-10 02:47	20369.2	3.5	3.50767	1.002	
1202035613	per0216076a	17-FEB-10 02:57	19419.7	3.53	3.54495	1.004	
246323001	per0216096a	17-FEB-10 06:20	19633.5	3.35	3.4082	1.017	

SAMPLE DATA

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 950041
 Extraction Type: Filter/DAI
 Client Sample No. RE15-10-7344
 Date Received: 05-FEB-10
 GEL Job No (SDG): 10-1565-1
 GEL Sample ID: 246323001
 Date Filtered: 12-FEB-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	17-FEB-10 06:20	per0216096a
	Perchlorate Isotope Ratio						1	17-FEB-10 06:20	per0216096a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	17-FEB-10 06:20	per0216096a
	Perchlorate-O(18)			0.487	ug/L		1	17-FEB-10 06:20	per0216096a

[^] 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\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216096a

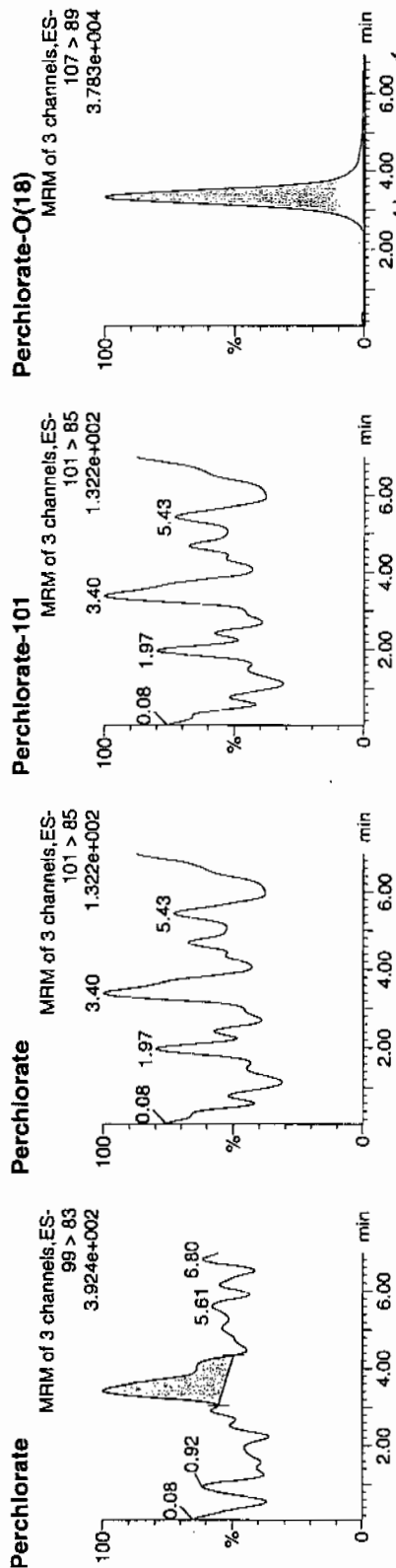
Date: 17-Feb-2010

Time: 06:20:03

ID: 246323001

Vial: 3:3,E

17-Feb-2010 | 17-Feb-2010 | 17-Feb-2010



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
246323001	Perchlorate	99 > 83	3.41	111,690	111,690	bb			0.0023			10,209	0.00
246323001	Perchlorate-101	101 > 85											
246323001	Perchlorate-O(18)	107 > 89	3.35	19633,508	19633,508	bb			0.4867	97.35	-2.65	2579.2...	

STANDARDS DATA

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories GEL Job No.(SDG): 10-1565-1

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 16-FEB-10

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

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

Paramname Perchlorate

Coefficient of Determination:

Calibration Curve: 48694.12

Response Type: External Standard

Curve Type: RF

Perchlorate Initial Calibration

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1565-1

Lab Code: GEL

Instrument ID: LCMSMS Date Analyzed: 16-FEB-10

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

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

Parname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 15156.32

Response Type: External Standard

Curve Type: RF

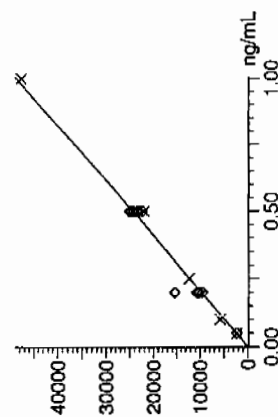
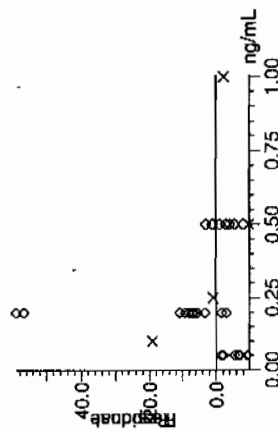
Quantify Calibration Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

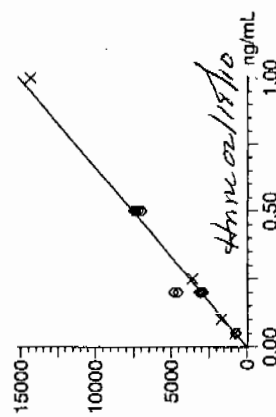
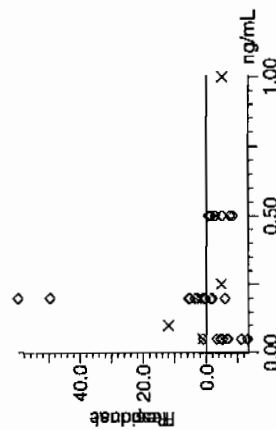
Method: C:\MassLynx\Perchlorate.PRO\MethDB\per021610a.mdb 17 Feb 2010 09:42:10
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per021610a.cdb 17 Feb 2010 11:03:29

Compound name: Perchlorate
Response Factor: 48694.1
RRF SD: 5598.16, % Relative SD: 11.4966
Response type: External Std, Area
Curve type: RF



02-17-10

Compound name: Perchlorate-101
Response Factor: 15156.3
RRF SD: 1083.64, % Relative SD: 7.14976
Response type: External Std, Area
Curve type: RF



4/11/10

Quantify Calibration Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time

Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

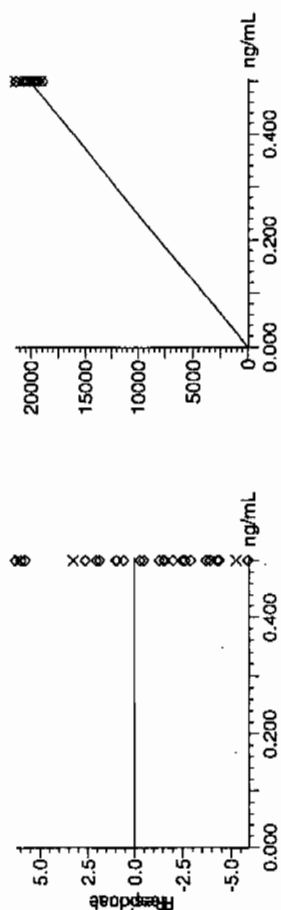
Compound name: Perchlorate-O⁻(18)

Response Factor: 40336

RRF SD: 1845.58, % Relative SD: 4.57552

Response type: External Std, Area

Curve type: RF ✓



Perchlorate Initial Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1565-1

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.52	103	16-FEB-10 15:41	per0216009a
Perchlorate Isotope Ratio		3.32		16-FEB-10 15:41	per0216009a
Perchlorate-101	.5	.5	99.57	16-FEB-10 15:41	per0216009a

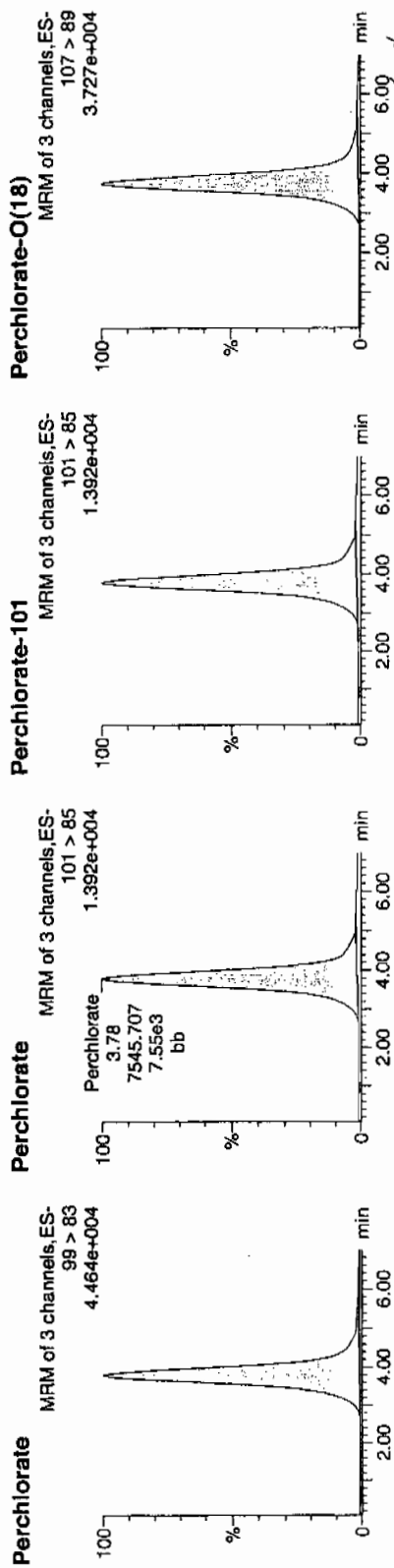
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216009a
Date: 16-Feb-2010
Time: 15:41:24
ID: WCL100211-06ICV
Vial: 1:2,A

Pure
02-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100211-06ICV	Perchlorate	99 > 83	3.78	25078.299	25078.299	bb			0.5150	103.00	3.00	2940.9...	3.32
WCL100211-06ICV	Perchlorate-101	101 > 85	3.78	7545.707	7545.707	bb			0.4979	99.57	-0.43	1165.8...	
WCL100211-06ICV	Perchlorate-O(18)	107 > 89	3.77	20536.309	20536.309	bb			0.5091	101.83	1.83	2332.3...	

Perchlorate Continuing Calibration Verification

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Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1565-1

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.49	98.95	16-FEB-10 17:51	per0216022a
Perchlorate Isotope Ratio		3.26		16-FEB-10 17:51	per0216022a
Perchlorate-101	.5	.49	97.38	16-FEB-10 17:51	per0216022a
Perchlorate	.5	.49	97.01	16-FEB-10 20:02	per0216035a
Perchlorate Isotope Ratio		3.21		16-FEB-10 20:02	per0216035a
Perchlorate-101	.5	.49	97.09	16-FEB-10 20:02	per0216035a
Perchlorate	.5	.47	94.55	16-FEB-10 22:14	per0216048a
Perchlorate Isotope Ratio		3.2		16-FEB-10 22:14	per0216048a
Perchlorate-101	.5	.47	94.94	16-FEB-10 22:14	per0216048a
Perchlorate	.5	.46	92.07	17-FEB-10 00:15	per0216060a
Perchlorate Isotope Ratio		3.23		17-FEB-10 00:15	per0216060a
Perchlorate-101	.5	.46	91.51	17-FEB-10 00:15	per0216060a
Perchlorate	.5	.51	101.24	17-FEB-10 02:06	per0216071a

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1565-1

Lab Code: GEL

Reporting Units: ug/L

Perchlorate Isotope Ratio			3.28		17-FEB-10 02:06	per0216071a
Perchlorate-101	.5	.5	.5	99.06	17-FEB-10 02:06	per0216071a
Perchlorate	.5	.5	.48	95.96	17-FEB-10 03:47	per0216081a
Perchlorate Isotope Ratio			3.24		17-FEB-10 03:47	per0216081a
Perchlorate-101	.5	.5	.48	95.04	17-FEB-10 03:47	per0216081a
Perchlorate	.5	.5	.49	97.28	17-FEB-10 05:39	per0216092a
Perchlorate Isotope Ratio			3.38		17-FEB-10 05:39	per0216092a
Perchlorate-101	.5	.5	.46	92.42	17-FEB-10 05:39	per0216092a
Perchlorate	.5	.5	.5	100.94	17-FEB-10 07:30	per0216103a
Perchlorate Isotope Ratio			3.29		17-FEB-10 07:30	per0216103a
Perchlorate-101	.5	.5	.49	98.51	17-FEB-10 07:30	per0216103a

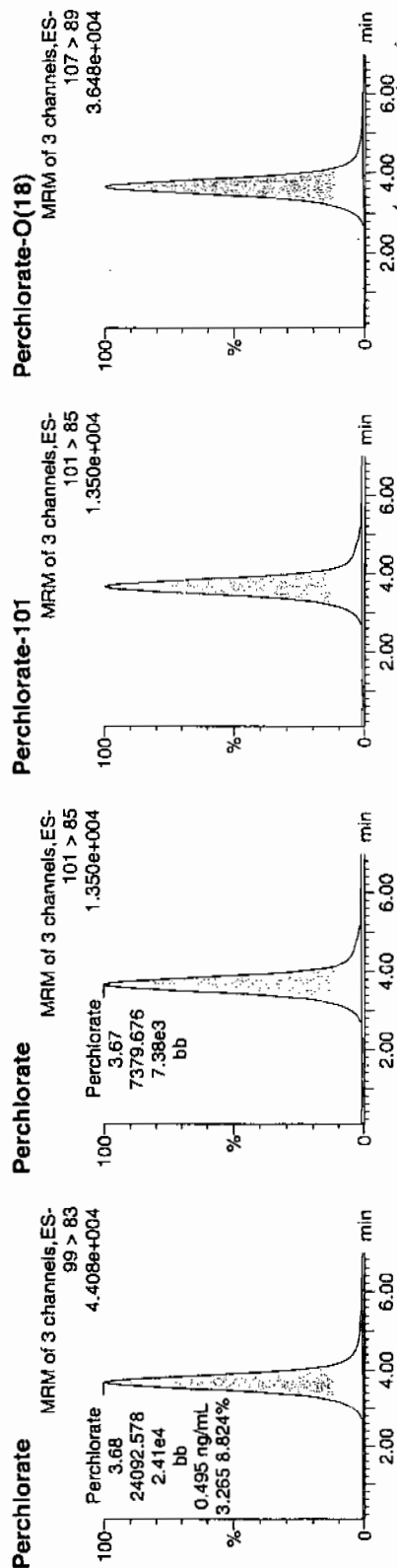
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216022a
Date: 16-Feb-2010
Time: 17:51:54
ID: WCL100211-06CCV
Vial: 1:2,A

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02-17-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100211-06CCV	Perchlorate	99 > 83	3.68	24092.578	24092.578	bb			0.4948	98.95	-1.05	3788.8...	3.26
WCL100211-06CCV	Perchlorate-101	101 > 85	3.67	7379.676	7379.676	bb			0.4869	97.38	-2.62	718.968	
WCL100211-06CCV	Perchlorate-O(18)	107 > 89	3.66	19578.602	19578.602	bb			0.4854	97.08	-2.92	1969.2...	

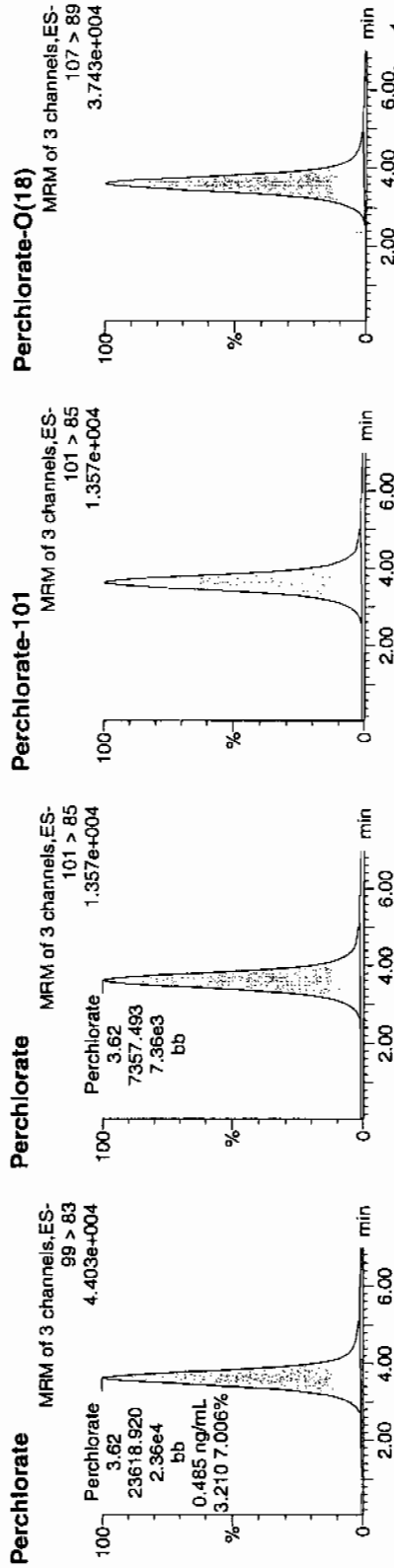
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216035a
Date: 16-Feb-2010
Time: 20:02:43
ID: WCL100211-06CCV
Vial: 1:2,A

Per
02-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SYN	Ion Ratio
WCL100211-06CCV	Perchlorate	99 > 83	3.62	23618.920	23618.920	bb			0.4850	97.01	-2.99	958.546	3.21
WCL100211-06CCV	Perchlorate-101	101 > 85	3.62	7357.493	7357.493	bb			0.4854	97.09	-2.91	253.594	
WCL100211-06CCV	Perchlorate-Q(18)	107 > 89	3.59	20062.182	20062.182	bb			0.4974	99.48	-0.52	3370.6...	

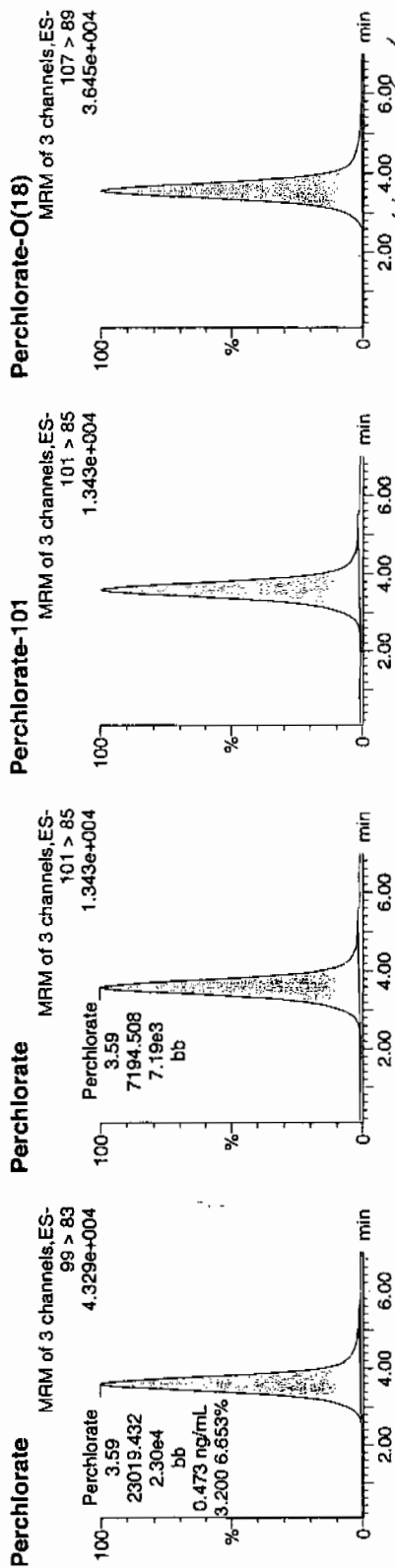
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216048a
Date: 16-Feb-2010
Time: 22:14:33
ID: WCL100211-06CCV
Vial: 1:2,A

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aw
02-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100211-06CCV	Perchlorate	99 > 83	3.59	23019.432	23019.432	bb			0.4727	94.55	-5.45	1319.1...	3.20
WCL100211-06CCV	Perchlorate-101	101 > 85	3.59	7194.508	7194.508	bb			0.4747	94.94	-5.06	264.715	
WCL100211-06CCV	Perchlorate-O(18)	107 > 89	3.58	19580.137	19580.137	bb			0.4854	97.09	-2.91	2127.0...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216060a

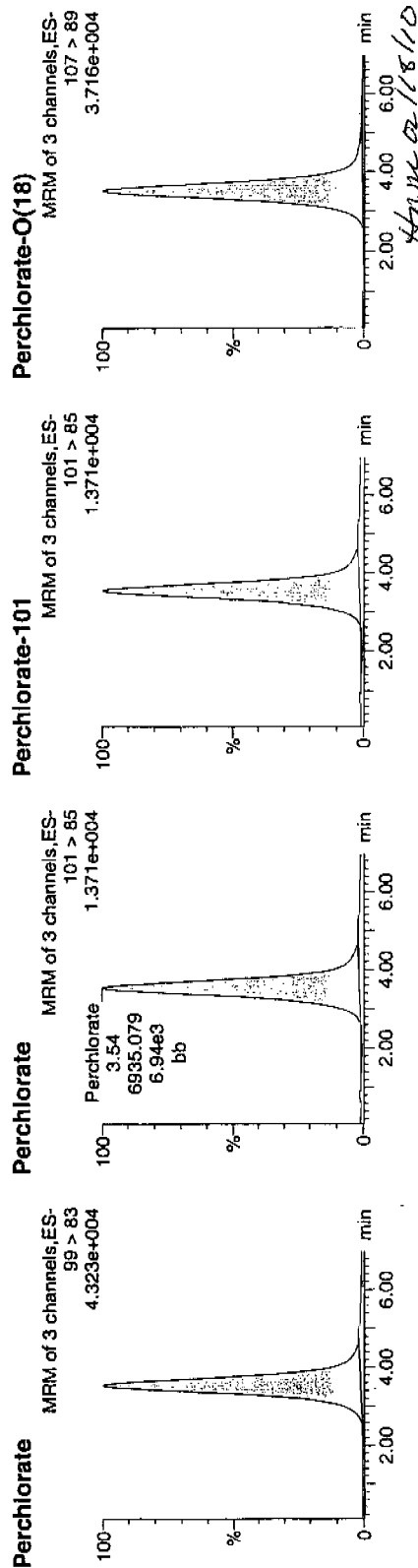
Date: 17-Feb-2010

Time: 00:15:22

ID: WCL100211-06CCV

Vial: 1:2,A

Pure
600
02-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion	Ratio
WCL100211-06CCV	Perchlorate	99 > 83	3.53	22417.438	22417.438	bb			0.4604	92.07	-7.93	1571.5...		3.23
WCL100211-06CCV	Perchlorate-101	101 > 85	3.54	6935.079	6935.079	bb			0.4576	91.51	-8.49	311.468		
WCL100211-06CCV	Perchlorate-O(18)	107 > 89	3.52	19667.754	19667.754	bb			0.4876	97.52	-2.48	2349.4...		

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216071a

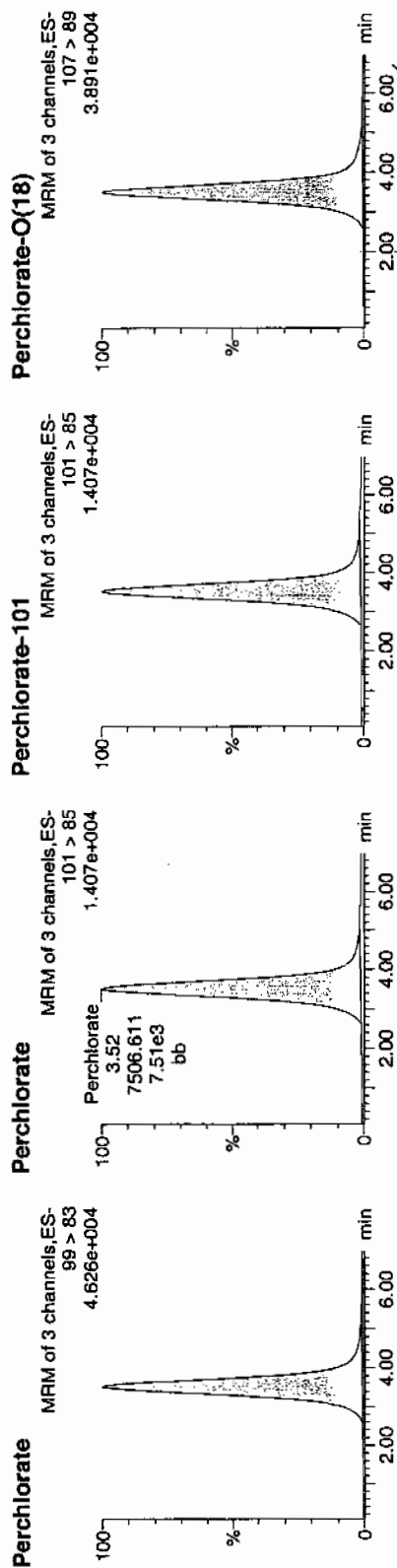
Date: 17-Feb-2010

Time: 02:06:24

ID: WCL100211-06CCV

Vial: 1:2,A

Run
02-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100211-06CCV	Perchlorate	99 > 83	3.52	24649.779	24649.779	bb			0.5062	101.24	1.24	2662.3...	3.28
WCL100211-06CCV	Perchlorate-101	101 > 85	3.52	7506.611	7506.611	bb			0.4953	99.06	-0.94	475.783	
WCL100211-06CCV	Perchlorate-O(18)	107 > 89	3.50	20576.664	20576.664	bb			0.5101	102.03	2.03	2075.3...	

Quantify Sample Report MassLynx 4.0 SP4

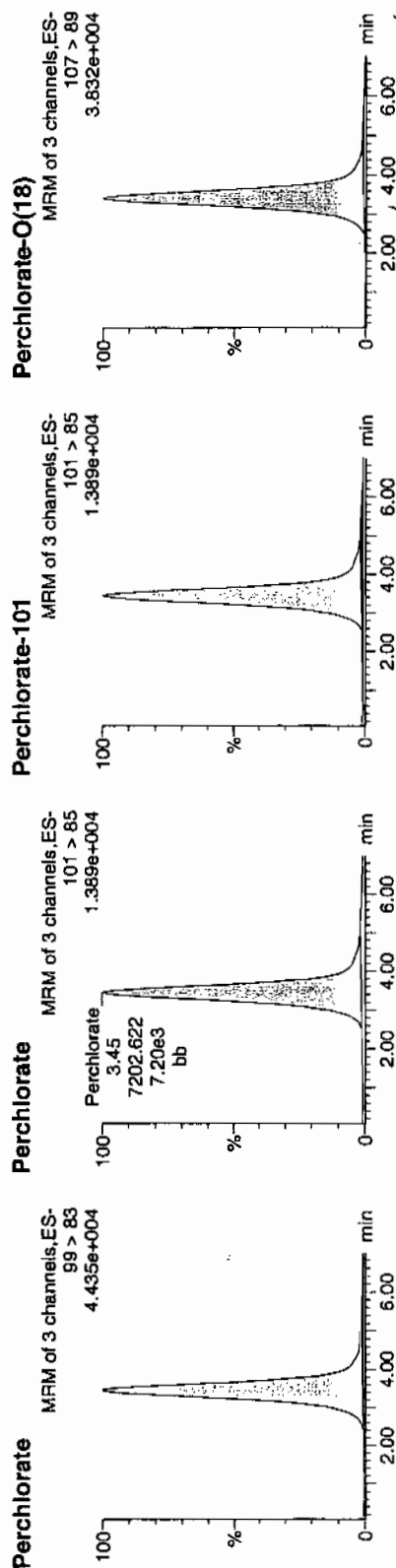
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
 Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216081a
 Date: 17-Feb-2010
 Time: 03:47:49
 ID: WCL100211-06CCV
 Vial: 1:2,A

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 02-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100211-06CCV	Perchlorate	99 > 83	3.45	23364.275	23364.275	bb			0.4798	95.96	-4.04	1625.5...	3.24
WCL100211-06CCV	Perchlorate-101	101 > 85	3.45	7202.622	7202.622	bb			0.4752	95.04	-4.96	316.860	
WCL100211-06CCV	Perchlorate-O(18)	107 > 89	3.42	19901.457	19901.457	bb			0.4934	98.68	-1.32	1192.8...	

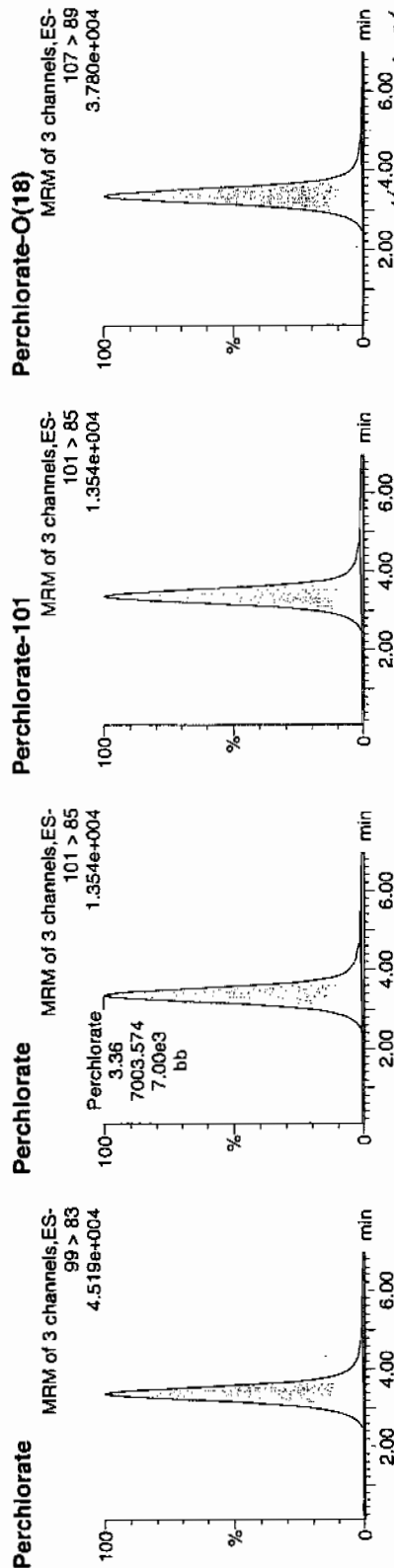
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216092a
Date: 17-Feb-2010
Time: 05:39:14
ID: WCL100211-06CCV
Vial: 1:2,A

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02-17-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100211-06CCV	Perchlorate	99 > 83	3.37	23684.766	23684.766	bb			0.4864	97.28	-2.72	1909.4...	3.38
WCL100211-06CCV	Perchlorate-101	101 > 85	3.36	7003.574	7003.574	bb			0.4621	92.42	-7.58	1194.8...	
WCL100211-06CCV	Perchlorate-O(18)	107 > 89	3.35	19846.270	19846.270	bb			0.4920	98.40	-1.60	3367.0...	

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216103a

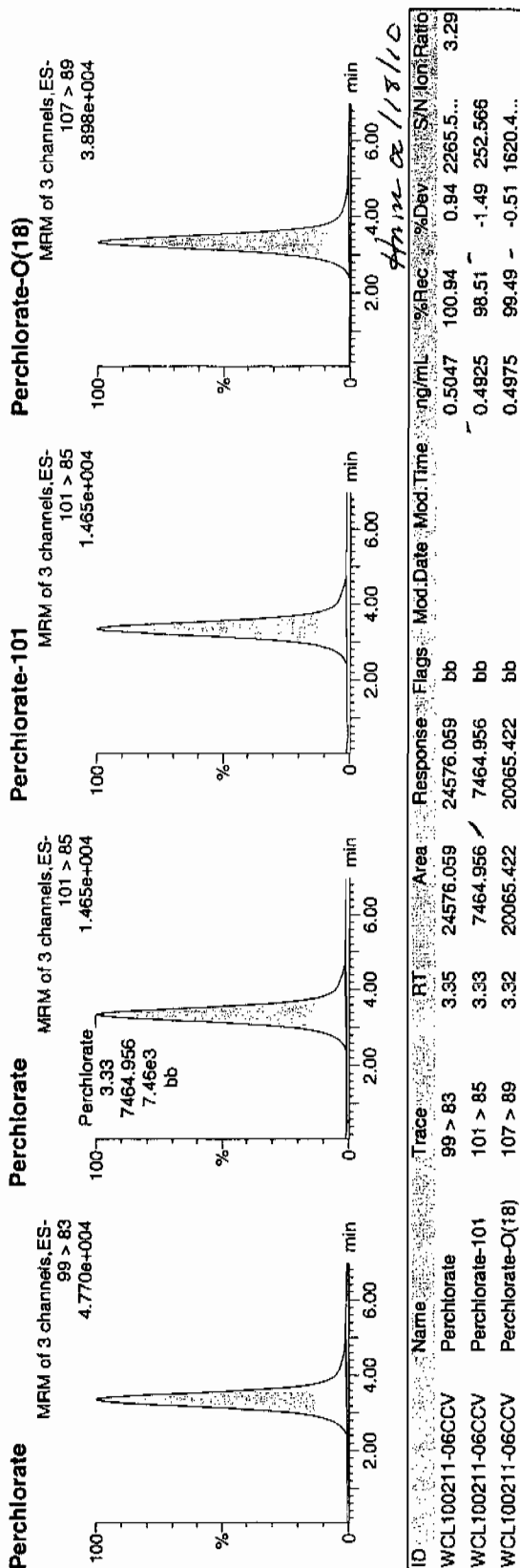
Date: 17-Feb-2010

Time: 07:30:18

ID: WCL100211-06CCV

Vial: 1:2,A

Pure
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02-17-10



Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1565-1

Lab Code: GEL

Reporting Units: ug/L

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	97.89	16-FEB-10 16:01	per0216011a
Perchlorate Isotope Ratio		3.38		16-FEB-10 16:01	per0216011a
Perchlorate-101	.05	.05	93.02	16-FEB-10 16:01	per0216011a
Perchlorate	.05	.05	93.36	16-FEB-10 18:11	per0216024a
Perchlorate Isotope Ratio		3.38		16-FEB-10 18:11	per0216024a
Perchlorate-101	.05	.04	88.83	16-FEB-10 18:11	per0216024a
Perchlorate	.05	.05	92.94	16-FEB-10 20:23	per0216037a
Perchlorate Isotope Ratio		3.09		16-FEB-10 20:23	per0216037a
Perchlorate-101	.05	.05	96.65	16-FEB-10 20:23	per0216037a
Perchlorate	.05	.05	98.66	16-FEB-10 22:34	per0216050a
Perchlorate Isotope Ratio		3.65		16-FEB-10 22:34	per0216050a

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1565-1

Lab Code: GEL

Reporting Units: ug/L

Perchlorate-101	.05	.04	86.88	16-FEB-10 22:34	per0216050a
Perchlorate	.05	.05	93.1	17-FEB-10 00:35	per0216062a
Perchlorate Isotope Ratio		3.16		17-FEB-10 00:35	per0216062a
Perchlorate-101	.05	.05	94.68	17-FEB-10 00:35	per0216062a
Perchlorate	.05	.05	93.57	17-FEB-10 02:26	per0216073a
Perchlorate Isotope Ratio		3.17		17-FEB-10 02:26	per0216073a
Perchlorate-101	.05	.05	94.79	17-FEB-10 02:26	per0216073a
Perchlorate	.05	.05	94.54	17-FEB-10 04:08	per0216083a
Perchlorate Isotope Ratio		3.25		17-FEB-10 04:08	per0216083a
Perchlorate-101	.05	.05	93.57	17-FEB-10 04:08	per0216083a
Perchlorate	.05	.05	93.28	17-FEB-10 05:59	per0216094a

Form 3

Perchlorate MDL Verification

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1565-1

Lab Code: GEL

Reporting Units: ug/L

Perchlorate Isotope Ratio		3.14		17-FEB-10 05:59	per0216094a
Perchlorate-101	.05	.05	95.5	17-FEB-10 05:59	per0216094a
Perchlorate	.05	.05	90.98	17-FEB-10 07:50	per0216105a
Perchlorate Isotope Ratio		2.89		17-FEB-10 07:50	per0216105a
Perchlorate-101	.05	.05	101.14	17-FEB-10 07:50	per0216105a

Quantify Sample Report MassLynx 4.0 SP4

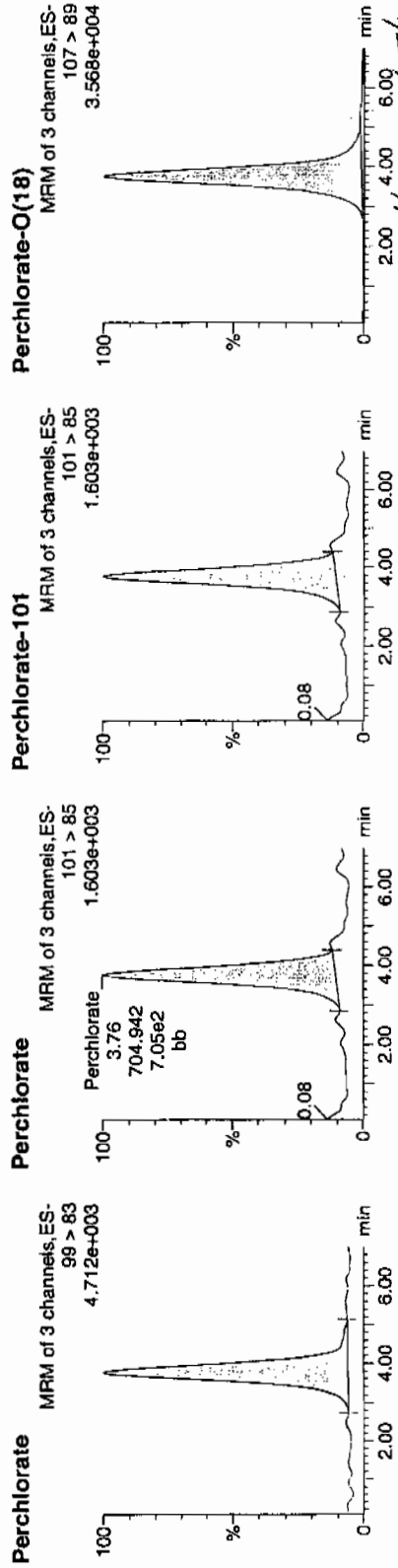
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216011a
Date: 16-Feb-2010
Time: 16:01:28
ID: WCL100211-07CRI
Vial: 1:2,B

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ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	IS/N	Ion Ratio
WCL100211-07CRI	Perchlorate	99 > 83	3.77	2383.393	2383.393	bb			0.0489	97.89	-2.11	187.352	3.38
WCL100211-07CRI	Perchlorate-101	101 > 85	3.76	704.942	704.942	bb			0.0465	93.02	-6.98	30.019	
WCL100211-07CRI	Perchlorate-O(18)	107 > 89	3.76	19370.289	19370.289	bb			0.4802	96.04	-3.96	849.260	

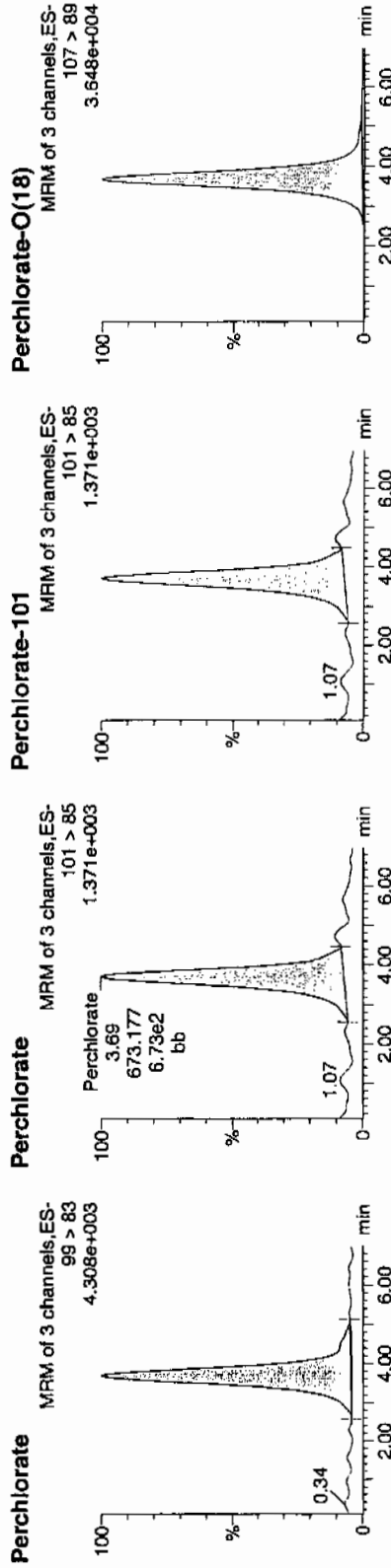
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216024a
Date: 16-Feb-2010
Time: 18:11:59
ID: WCL100211-07CRI
Vial: 1:2,B

*Per
02-17-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100211-07CRI	Perchlorate	99 > 83	3.68	2272.925	2272.925	bb			0.0467	93.36	-6.64	241.554	3.38
WCL100211-07CRI	Perchlorate-101	101 > 85	3.69	673.177	673.177	bb			0.0444	88.83	-11.17	256.925	
WCL100211-07CRI	Perchlorate-O(18)	107 > 89	3.67	19278.473	19278.473	bb			0.4779	95.59	-4.41	2546.5...	

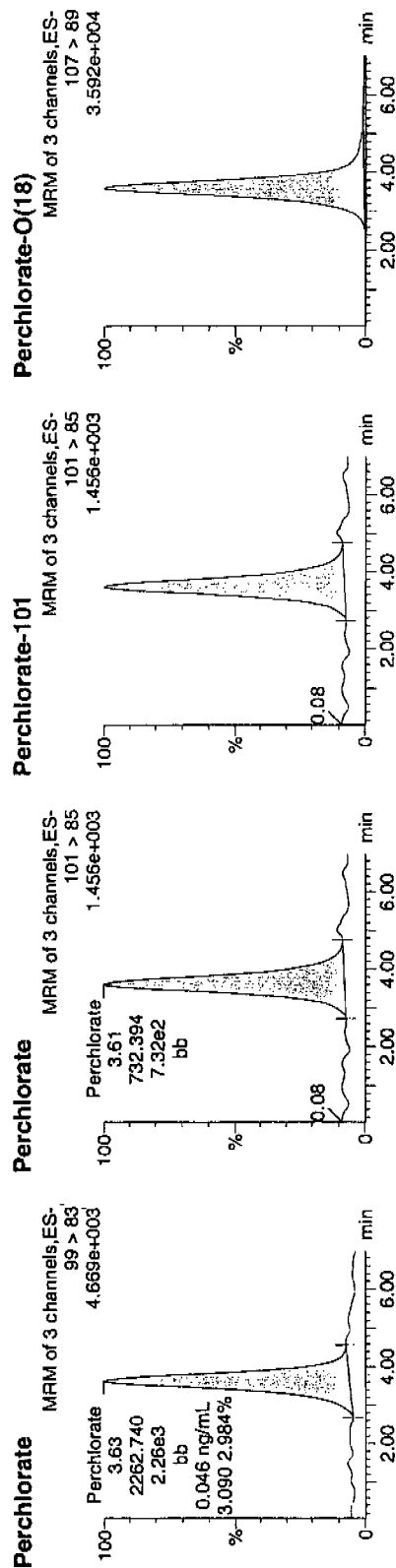
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216037a
Date: 16-Feb-2010
Time: 20:23:04
ID: WCL100211-07CRI
Vial: 1:2,B

Pass
02-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100211-07CRI	Perchlorate	99 > 83	3.63	2262.740	2262.740	bb			0.0465	92.94	-7.06	178.571	3.09
WCL100211-07CRI	Perchlorate-101	101 > 85	3.61	732.394	732.394	bb			0.0483	96.65	-3.35	252.373	
WCL100211-07CRI	Perchlorate-O(18)	107 > 89	3.61	19380.582	19380.582	bb			0.4805	96.10	-3.90	1524.6...	

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

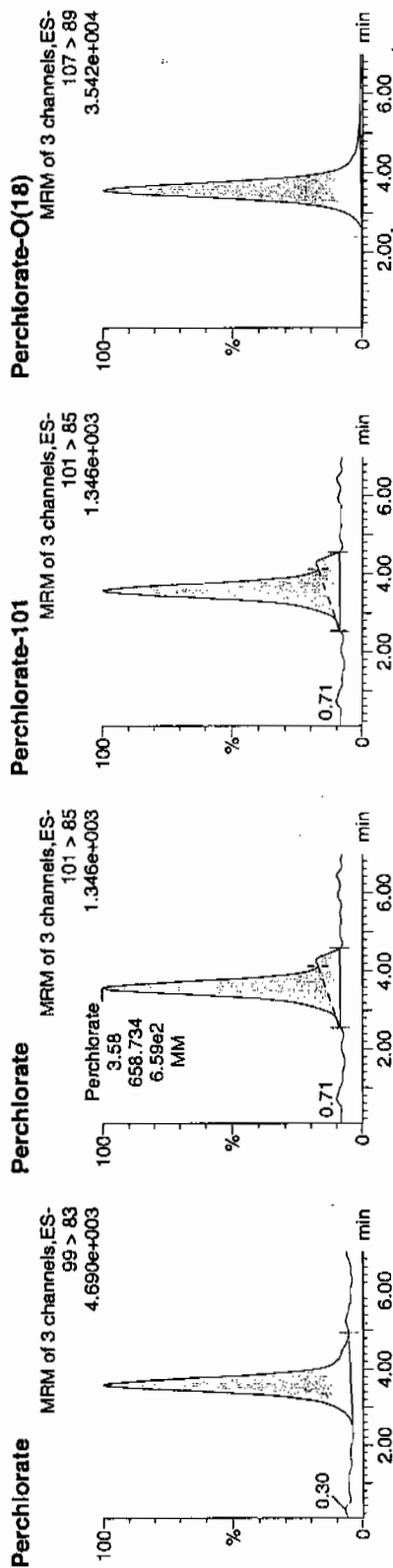
Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216050a
Date: 16-Feb-2010
Time: 22:34:52
ID: WCL100211-07CRI
Vial: 1:2,B

MANUAL

Run
633
02-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100211-07CRI	Perchlorate	99 > 83	3.58	2402.146	2402.146	bb	17-Feb-10	11:08:35	0.0493	98.66	-1.34	198.764	3.65
WCL100211-07CRI	Perchlorate-101	101 > 85	3.58	658.410	658.410	MM	17-Feb-10	11:09:37	0.0434	86.88	-13.12	11.199	
WCL100211-07CRI	Perchlorate-O(18)	107 > 89	3.58	18982.666	18982.666	bb			0.4706	94.12	-5.88	2154.2...	

4/11/10 11:18:10

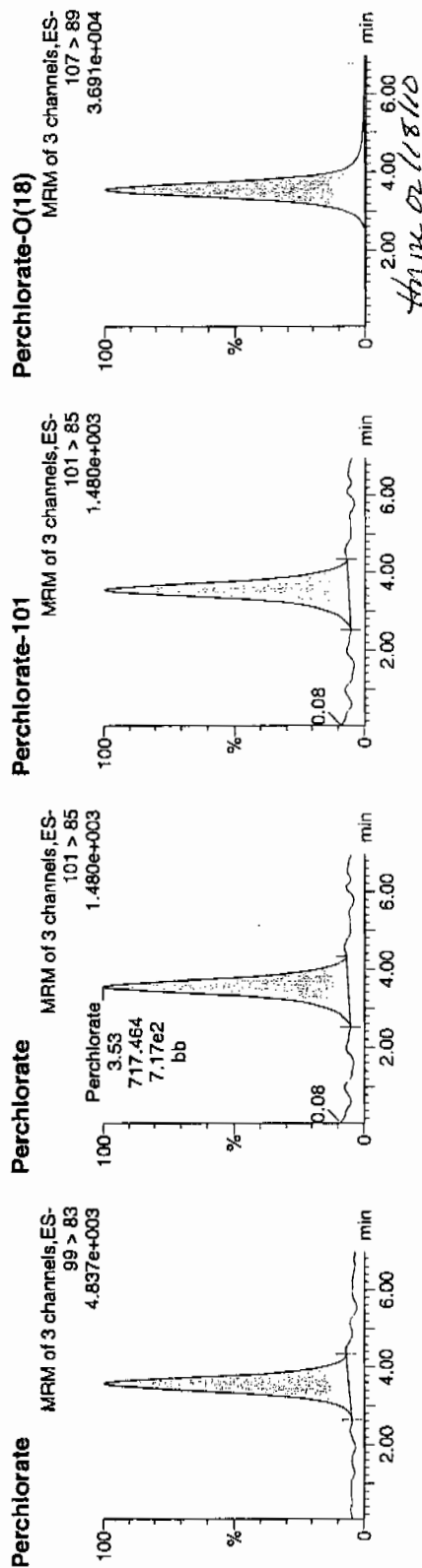
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charliers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216062a
Date: 17-Feb-2010
Time: 00:35:50
ID: WCL100211-07CRI
Vial: 1:2,B

*Purs
6ms
02-17-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	IonRatio
WCL100211-07CRI	Perchlorate	99 > 83	3.56	2266.666	2266.666	bb			0.0465	93.10	-6.90	332.053	3.16
WCL100211-07CRI	Perchlorate-101	101 > 85	3.53	717.464	717.464	bb			0.0473	94.68	-5.32	154.139	
WCL100211-07CRI	Perchlorate-O(18)	107 > 89	3.54	19631.152	19631.152	bb			0.4867	97.34	-2.66	3049.6...	

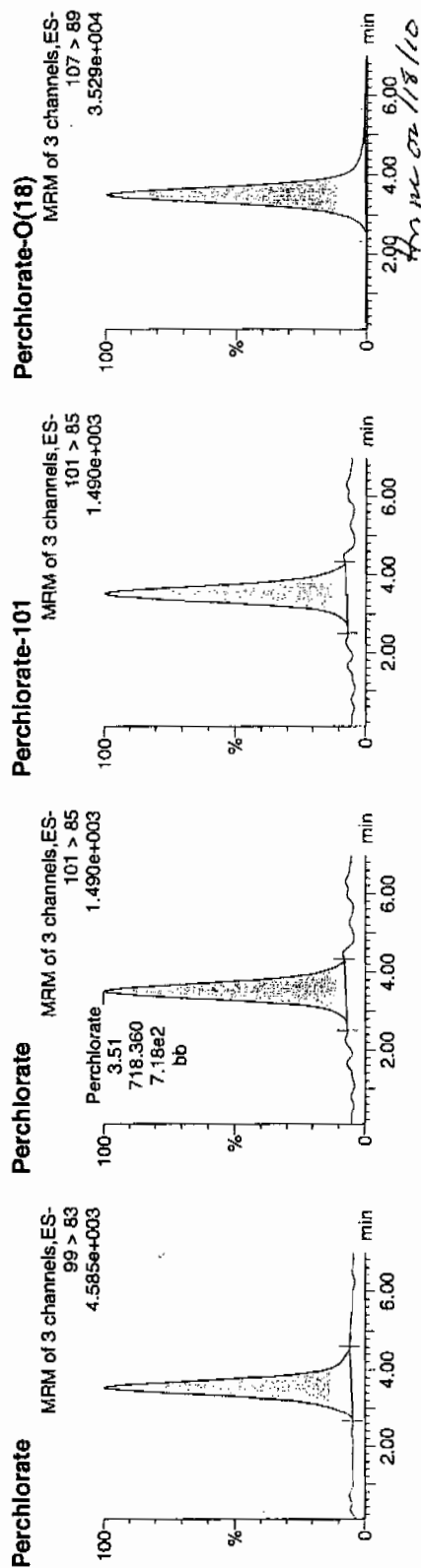
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216073a
Date: 17-Feb-2010
Time: 02:26:59
ID: WCL100211-07CRI
Vial: 1:2,B

Per
02-17-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100211-07CRI	Perchlorate	99 > 83	3.53	2278.118	2278.118	bb			0.0468	93.57	-6.43	217.447	3.17
WCL100211-07CRI	Perchlorate-101	101 > 85	3.51	718.360	718.360	bb			0.0474	94.79	-5.21	17.933	
WCL100211-07CRI	Perchlorate-O(18)	107 > 89	3.51	18979.275	18979.275	bb			0.4705	94.11	-5.89	1263.3...	

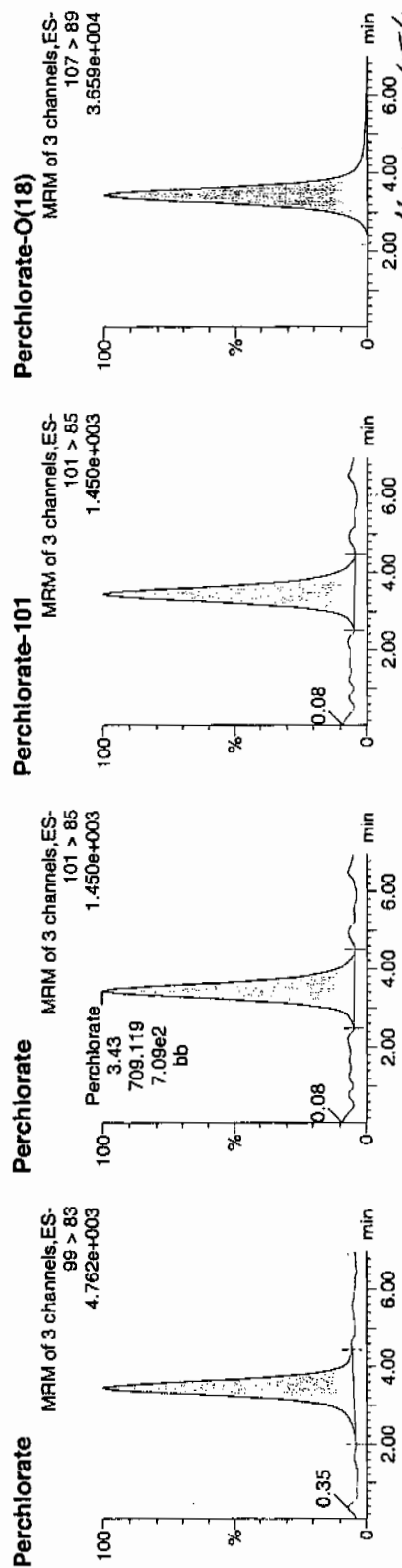
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charfers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216083a
Date: 17-Feb-2010
Time: 04:08:21
ID: WCL100211-07CRI
Vial: 1:2,B

*Purs
02-17-10*



ID	Name	Trace	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Int Ratio
WCL100211-07CRI	Perchlorate	99 > 83	3.45	2301.800	bb			0.0473	94.54	-5.46	271.167	3.25
WCL100211-07CRI	Perchlorate-101	101 > 85	3.43	709.119	bb			0.0468	93.57	-6.43	100.791	
WCL100211-07CRI	Perchlorate-O(18)	107 > 89	3.43	19309.088	bb			0.4787	95.74	-4.26	3564.2...	

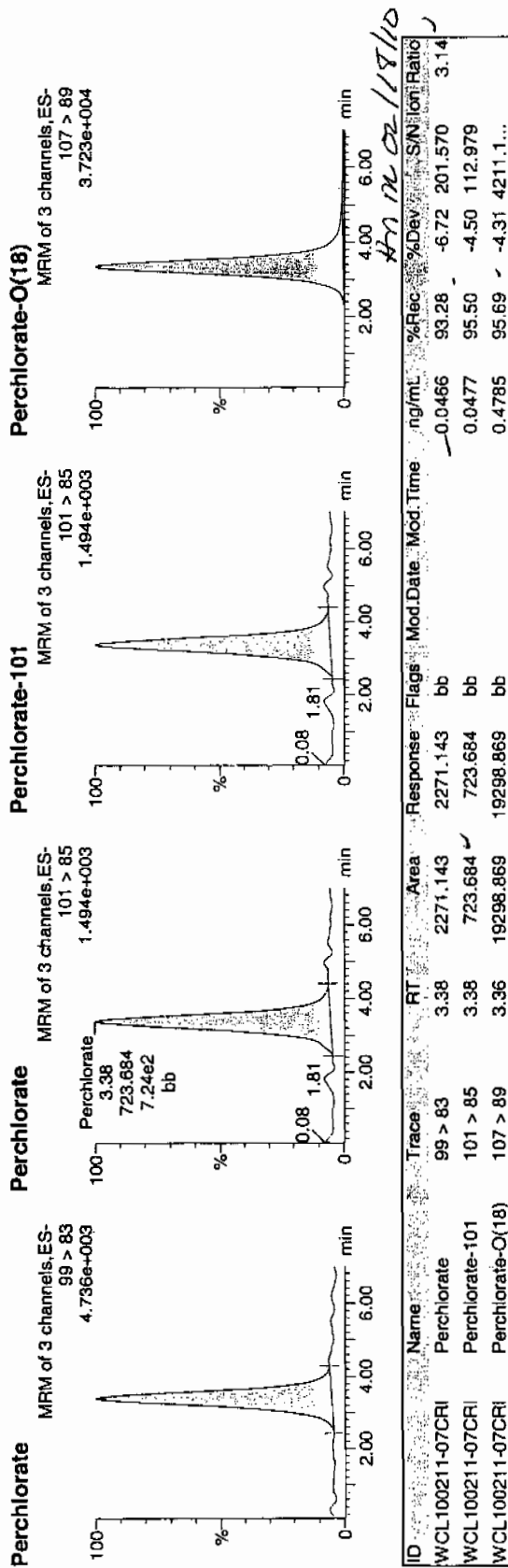
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216094a
Date: 17-Feb-2010
Time: 05:59:39
ID: WCL100211-07CRI
Vial: 1:2,B

Per
02-17-10



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

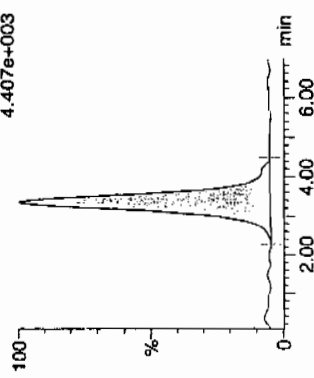
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Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

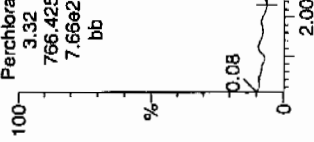
Name: per0216105a
Date: 17-Feb-2010
Time: 07:50:44
ID: WCL100211-07CRI
Vial: 1:2,B

Per
WCL
02-17-10

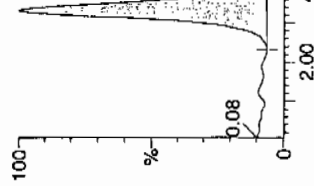
Perchlorate
MRM of 3 channels, ES-
99 > 83
4.407e+003



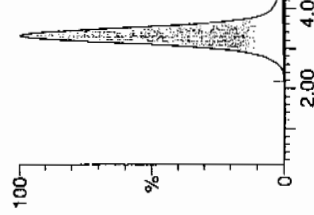
Perchlorate
MRM of 3 channels, ES-
101 > 85
1.519e+003



Perchlorate-101
MRM of 3 channels, ES-
101 > 85
1.519e+003



Perchlorate-O(18)
MRM of 3 channels, ES-
107 > 89
3.749e+004



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100211-07CRI	Perchlorate	99 > 83	3.35	2215.006	2215.006	bb			0.0455	90.98	-9.02	285.998	2.89
WCL100211-07CRI	Perchlorate-101	101 > 85	3.32	766.425	766.425	bb			0.0506	101.14	1.14	158.219	
WCL100211-07CRI	Perchlorate-O(18)	107 > 89	3.32	19636.211	19636.211	bb			0.4868	97.36	-2.64	742.835	

QUALITY CONTROL

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: EPA 6850 Modified

Matrix: WATER

Extraction Batch ID: 950041

Extraction Type: Filter/DAI

Sample Volume/Weight: 10.0 mL

Concentrated Extract Volume: 10.0

Client Sample No.

MB

Date Received: 12-FEB-10

GEL Job No (SDG): 10-1565-1

GEL Sample ID: 1202035609

Date Filtered: 12-FEB-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	17-FEB-10 02:37	per0216074a
	Perchlorate Isotope Ratio						1	17-FEB-10 02:37	per0216074a
14797-73-0	Perchlorate-101	.05	.2	0.050	ug/L	U	1	17-FEB-10 02:37	per0216074a
	Perchlorate-O(18)			0.479	ug/L		1	17-FEB-10 02:37	per0216074a

[^] 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\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216074a

Date: 17-Feb-2010

Time: 02:37:03

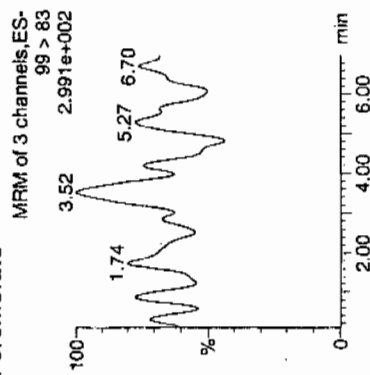
ID: 1202035609

Vial: 3:1,A

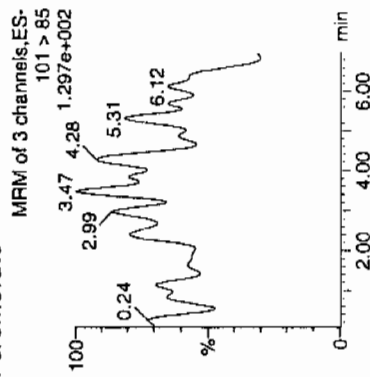
0.00
02-17-10

0.00
02-17-10

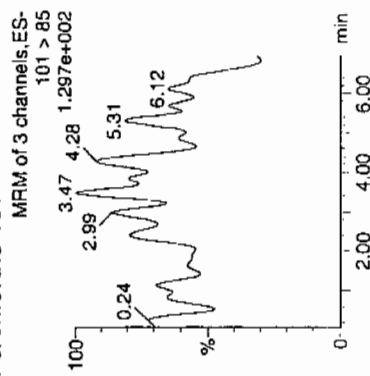
Perchlorate



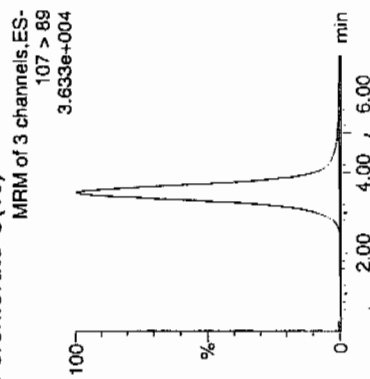
Perchlorate



Perchlorate-101



Perchlorate-O(18)



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202035609	Perchlorate	99 > 83											0.00
1202035609	Perchlorate-101	101 > 85											
1202035609	Perchlorate-O(18)	107 > 89	3.51	19327.055	19327.055	bb			0.4792	95.83	-4.17	371.723	

Perchlorate Analysis Data Sheet

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Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: EPA 6850 Modified
 Matrix: WATER
 Extraction Batch ID: 950041
 Extraction Type: Filter/DAL
 Client Sample No. LCS
 Date Received: 12-FEB-10
 GEL Job No (SDG): 10-1565-1
 GEL Sample ID: 1202035610
 Date Filtered: 12-FEB-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	0.211	ug/L		1	17-FEB-10 02:47	per0216075a
	Perchlorate Isotope Ratio			3.3			1	17-FEB-10 02:47	per0216075a
14797-73-0	Perchlorate-101	.05	.2	0.206	ug/L		1	17-FEB-10 02:47	per0216075a
	Perchlorate-O(18)			0.505	ug/L		1	17-FEB-10 02:47	per0216075a

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

*Concentration =

Instrument Value X Concentrated Extract Volume X 1 %Solids
 Aliquot

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216075a

Date: 17-Feb-2010

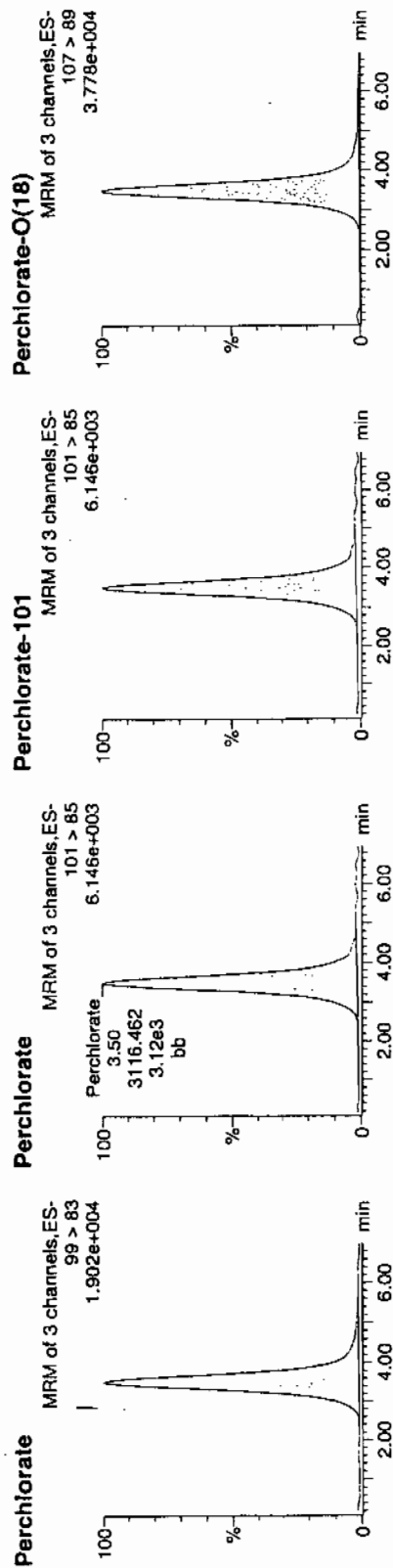
Time: 02:47:26

ID: 1202035610

Vial: 3:1,B

02-17-10

1202035610 | 1202035610 | 1202035610



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202035610	Perchlorate	99 > 83	3.51	10271.044	10271.044	bb			0.2109	105.46	5.46	624.785	3.30
1202035610	Perchlorate-101	101 > 85	3.50	3116.462	3116.462	bb			0.2056	102.81	2.81	125.506	
1202035610	Perchlorate-O(18)	107 > 89	3.50	20369.182	20369.182	bb			0.5050	101.00	1.00	649.757	

$$\frac{10271.044}{48694.1} = 0.2109$$

4/11/10

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: 950041
 Analyst: Jareth Shirley
 Method: SW846 6850 Modified
 Verified by:
 Lab SOP: GL-OA-E-067 REV# 6
 Instrument: MicroMass Quattro Ultima

Sample ID	Run Date	Initial Volume (mL)	Final Volume (mL)	Prepped Factor (mL/mL)	Spike Amt	Units	Comments
1202035609 MB	12-FEB-2010 14:48:00	10	10	1			
1202035610 LCS	12-FEB-2010 14:48:00	10	10	1			
246264001	12-FEB-2010 14:48:00	10	10	1			
246269001	12-FEB-2010 14:48:00	10	10	1			
246278001	12-FEB-2010 14:48:00	10	10	1			
246282001	12-FEB-2010 14:48:00	10	10	1			
246292001	12-FEB-2010 14:48:00	10	10	1			
1202035611 MS (246292001)	12-FEB-2010 14:48:00	10	10	1			
1202035612 MSD (246292001)	12-FEB-2010 14:48:00	10	10	1			
246292002	12-FEB-2010 14:48:00	10	10	1			
246293002	12-FEB-2010 14:48:00	10	10	1			
246293004	12-FEB-2010 14:48:00	10	10	1			
246299001	12-FEB-2010 14:48:00	10	10	1			
246306001	12-FEB-2010 14:48:00	10	10	1			
246313001	12-FEB-2010 14:48:00	10	10	1			
246323001	12-FEB-2010 14:48:00	10	10	1			
246334001	12-FEB-2010 14:48:00	10	10	1			
246436001	12-FEB-2010 14:48:00	10	10	1			
246448001	12-FEB-2010 14:48:00	10	10	1			
246451001	12-FEB-2010 14:48:00	10	10	1			
246455001	12-FEB-2010 14:48:00	10	10	1			
246459001	12-FEB-2010 14:48:00	10	10	1			
1202035613 LCS	12-FEB-2010 14:48:00	10	10	1			
ICS 1202035613	10 ug/L ICV/CCV Second Source		UCL100210-02.2		2	mL	Desalting cartridges used: BJ01/02J1609 & BJ0003J1609
LCS 1202035610	10 ug/L ICV/CCV Second Source		UCL100210-02.2		2	mL	
MS 1202035611	10 ug/L ICV/CCV Second Source		UCL100210-02.2		2	mL	
MSD 1202035612	10 ug/L ICV/CCV Second Source		UCL100210-02.2		2	mL	
RGNT All	O2S1 HPLC Grade Water		1261217		10	mL	
RGNT All	500 ppm Carbonate, Bicarbonate, Chloride, Sulfate		1263643		10	mL	

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 02/16/10
Extr. Injection Volume: 20uL
Sequence Number: per021610a
Initial Calibration Date: 02/16/10

Method: EPA 6850-Modified
Int. Std.: UCL100122-01
Mobile Phase Lot#: 1269535, 1261217
Standard-Samp Reagent Lot#: 1261217

Reviewed BY: *hmc*
Date: 02/18/10
SOP: GL-OA-E-067 Rev.6
Alt Check Std. ID: WCL100211-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0216001a	IPB001	CWW	2/16/2010 14:21			1		USE	B
per0216002a	IPB001	CWW	2/16/2010 14:31			1		USE	B
per0216003a	WCLICAL-01	CWW	2/16/2010 14:41			1		USE	I
per0216004a	WCLICAL-02	CWW	2/16/2010 14:51			1		USE	I
per0216005a	WCLICAL-03	CWW	2/16/2010 15:01			1		USE	I
per0216006a	WCLICAL-04	CWW	2/16/2010 15:11			1		USE	I
per0216007a	WCLICAL-05	CWW	2/16/2010 15:21			1		USE	I
per0216008a	IPB002	CWW	2/16/2010 15:31			1		USE	B
per0216009a	WCLICV	CWW	2/16/2010 15:41			1		USE	C
per0216010a	IPB003	CWW	2/16/2010 15:51			1		USE	B
per0216011a	WCLCRI	CWW	2/16/2010 16:01			1		USE	C
per0216012a	1202029072	CWW	2/16/2010 16:11	947243	10-1460	1	LANL	USE	S
per0216013a	1202029073	CWW	2/16/2010 16:21	947243	10-1460	1	LANL	USE	S
per0216014a	1202029076	CWW	2/16/2010 16:31	947243	10-1460	1	LANL	USE	S
per0216015a	245783001	CWW	2/16/2010 16:41	947243	10-1460	1	LANL	USE	S
per0216016a	1202029074	CWW	2/16/2010 16:51	947243	10-1460	1	LANL	USE	S
per0216017a	1202029075	CWW	2/16/2010 17:01	947243	10-1460	1	LANL	USE	S
per0216018a	245783002	CWW	2/16/2010 17:11	947243	10-1460	1	LANL	USE	S
per0216019a	245783003	CWW	2/16/2010 17:21	947243	10-1460	1	LANL	USE	S
per0216020a	245783004	CWW	2/16/2010 17:31	947243	10-1460	1	LANL	USE	S
per0216021a	245783005	CWW	2/16/2010 17:41	947243	10-1460	1	LANL	USE	S
per0216022a	WCLCCV	CWW	2/16/2010 17:51			1		USE	C
per0216023a	IPB004	CWW	2/16/2010 18:01			1		USE	B
per0216024a	WCLCRI	CWW	2/16/2010 18:11			1		USE	C
per0216025a	245783006	CWW	2/16/2010 18:22	947243	10-1460	1	LANL	USE	S
per0216026a	245783007	CWW	2/16/2010 18:32	947243	10-1460	1	LANL	USE	S
per0216027a	245783008	CWW	2/16/2010 18:42	947243	10-1460	1	LANL	USE	S
per0216028a	245783009	CWW	2/16/2010 18:52	947243	10-1460	1	LANL	USE	S
per0216029a	245783010	CWW	2/16/2010 19:02	947243	10-1460	1	LANL	USE	S

per0216030a	245783011	CWW	2/16/2010 19:12	947243	10-1460	1	LANL	USE	S
per0216031a	245783012	CWW	2/16/2010 19:22	947243	10-1460	1	LANL	USE	S
per0216032a	245783013	CWW	2/16/2010 19:32	947243	10-1460	1	LANL	USE	S
per0216033a	245783014	CWW	2/16/2010 19:42	947243	10-1460	1	LANL	USE	S
per0216034a	245783015	CWW	2/16/2010 19:52	947243	10-1460	1	LANL	USE	S
per0216035a	WCLCCV	CWW	2/16/2010 20:02			1		USE	C
per0216036a	IPB005	CWW	2/16/2010 20:12			1		USE	B
per0216037a	WCLCRI	CWW	2/16/2010 20:23			1		USE	C
per0216038a	245783016	CWW	2/16/2010 20:33	947243	10-1460	1	LANL	USE	S
per0216039a	IPB006	CWW	2/16/2010 20:43			1		USE	B
per0216040a	1202029077	CWW	2/16/2010 20:53	947246	VARIOUS	1	LANL	USE	S
per0216041a	1202029078	CWW	2/16/2010 21:03	947246	VARIOUS	1	LANL	USE	S
per0216042a	1202029081	CWW	2/16/2010 21:13	947246	VARIOUS	1	LANL	USE	S
per0216043a	245786001	CWW	2/16/2010 21:23	947246	10-1462	1	LANL	USE	S
per0216044a	245797001	CWW	2/16/2010 21:34	947246	10-1471	1	LANL	USE	S
per0216045a	1202029079	CWW	2/16/2010 21:44	947246	10-1471	1	LANL	USE	S
per0216046a	1202029080	CWW	2/16/2010 21:54	947246	10-1471	1	LANL	USE	S
per0216047a	245797002	CWW	2/16/2010 22:04	947246	10-1471	1	LANL	USE	S
per0216048a	WCLCCV	CWW	2/16/2010 22:14			1		USE	C
per0216049a	IPB007	CWW	2/16/2010 22:24			1		USE	B
per0216050a	WCLCRI	CWW	2/16/2010 22:34			1		USE	C
per0216051a	245797003	CWW	2/16/2010 22:44	947246	10-1471	1	LANL	USE	S
per0216052a	245797004	CWW	2/16/2010 22:55	947246	10-1471	1	LANL	USE	S
per0216053a	245797005	CWW	2/16/2010 23:05	947246	10-1471	1	LANL	USE	S
per0216054a	245797006	CWW	2/16/2010 23:15	947246	10-1471	1	LANL	USE	S
per0216055a	245797007	CWW	2/16/2010 23:25	947246	10-1471	1	LANL	USE	S
per0216056a	245797008	CWW	2/16/2010 23:35	947246	10-1471	1	LANL	USE	S
per0216057a	245797009	CWW	2/16/2010 23:45	947246	10-1471	1	LANL	USE	S
per0216058a	245797010	CWW	2/16/2010 23:55	947246	10-1471	1	LANL	USE	S
per0216059a	245797011	CWW	2/17/2010 0:05	947246	10-1471	1	LANL	USE	S
per0216060a	WCLCCV	CWW	2/17/2010 0:15			1		USE	C
per0216061a	IPB008	CWW	2/17/2010 0:25			1		USE	B
per0216062a	WCLCRI	CWW	2/17/2010 0:35			1		USE	C
per0216063a	245797012	CWW	2/17/2010 0:45	947246	10-1471	1	LANL	USE	S
per0216064a	245797013	CWW	2/17/2010 0:56	947246	10-1471	1	LANL	USE	S
per0216065a	245797014	CWW	2/17/2010 1:06	947246	10-1471	1	LANL	USE	S
per0216066a	245797015	CWW	2/17/2010 1:16	947246	10-1471	1	LANL	USE	S

per0216067a	245797016	CWW	2/17/2010 1:26	947246	10-1471	1	LANL	USE	S
per0216068a	245797017	CWW	2/17/2010 1:36	947246	10-1471	1	LANL	USE	S
per0216069a	245797018	CWW	2/17/2010 1:46	947246	10-1471	1	LANL	USE	S
per0216070a	245797019	CWW	2/17/2010 1:56	947246	10-1471	1	LANL	USE	S
per0216071a	WCLCCV	CWW	2/17/2010 2:06			1		USE	C
per0216072a	IPB009	CWW	2/17/2010 2:16			1		USE	B
per0216073a	WCLCRI	CWW	2/17/2010 2:26			1		USE	C
per0216074a	1202035609	CWW	2/17/2010 2:37	950042	VARIOUS	1	LANL	USE	S
per0216075a	1202035610	CWW	2/17/2010 2:47	950042	VARIOUS	1	LANL	USE	S
per0216076a	1202035613	CWW	2/17/2010 2:57	950042	VARIOUS	1	LANL	USE	S
per0216077a	246264001	CWW	2/17/2010 3:07	950042	10-1573-1	1	LANL	USE	S
per0216078a	246269001	CWW	2/17/2010 3:17	950042	10-1548-1	1	LANL	USE	S
per0216079a	246278001	CWW	2/17/2010 3:27	950042	10-1551	1	LANL	USE	S
per0216080a	246282001	CWW	2/17/2010 3:37	950042	10-1576	1	LANL	USE	S
per0216081a	WCLCCV	CWW	2/17/2010 3:47			1		USE	C
per0216082a	IPB010	CWW	2/17/2010 3:58			1		USE	B
per0216083a	WCLCRI	CWW	2/17/2010 4:08			1		USE	C
per0216084a	246292001	CWW	2/17/2010 4:18	950042	10-1554-1	1	LANL	USE	S
per0216085a	1202035611	CWW	2/17/2010 4:28	950042	10-1554-1	1	LANL	USE	S
per0216086a	1202035612	CWW	2/17/2010 4:38	950042	10-1554-1	1	LANL	USE	S
per0216087a	246292002	CWW	2/17/2010 4:49	950042	10-1554-1	1	LANL	USE	S
per0216088a	246293002	CWW	2/17/2010 4:59	950042	10-1591	1	LANL	USE	S
per0216089a	246293004	CWW	2/17/2010 5:09	950042	10-1591	1	LANL	USE	S
per0216090a	246299001	CWW	2/17/2010 5:19	950042	10-1557	1	LANL	USE	S
per0216091a	246306001	CWW	2/17/2010 5:29	950042	10-1559-1	1	LANL	USE	S
per0216092a	WCLCCV	CWW	2/17/2010 5:39			1		USE	C
per0216093a	IPB011	CWW	2/17/2010 5:49			1		USE	B
per0216094a	WCLCRI	CWW	2/17/2010 5:59			1		USE	C
per0216095a	246313001	CWW	2/17/2010 6:09	950042	10-1561-1	1	LANL	USE	S
per0216096a	246323001	CWW	2/17/2010 6:20	950042	10-1565-1	1	LANL	USE	S
per0216097a	246334001	CWW	2/17/2010 6:30	950042	10-1568	1	LANL	USE	S
per0216098a	246436001	CWW	2/17/2010 6:40	950042	10-1621	1	LANL	USE	S
per0216099a	246448001	CWW	2/17/2010 6:50	950042	10-1627-1	1	LANL	USE	S
per0216100a	246451001	CWW	2/17/2010 7:00	950042	10-1629	1	LANL	USE	S
per0216101a	246455001	CWW	2/17/2010 7:10	950042	10-1631	1	LANL	USE	S
per0216102a	246459001	CWW	2/17/2010 7:20	950042	10-1633	1	LANL	USE	S
per0216103a	WCLCCV	CWW	2/17/2010 7:30			1		USE	C

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2/17/2010 7:40
2/17/2010 7:50
2/17/2010 8:00
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2/17/2010 8:21
2/17/2010 8:31

CWW
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IPB012
WCLCRI
1267890 Supp
1261217 H2O
UCL100210-01
UCL100210-02.1

per0216104a
per0216105a
per0216106a
per0216107a
per0216108a
per0216109a

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

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qid

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

Name: per0216085a

Date: 17-Feb-2010

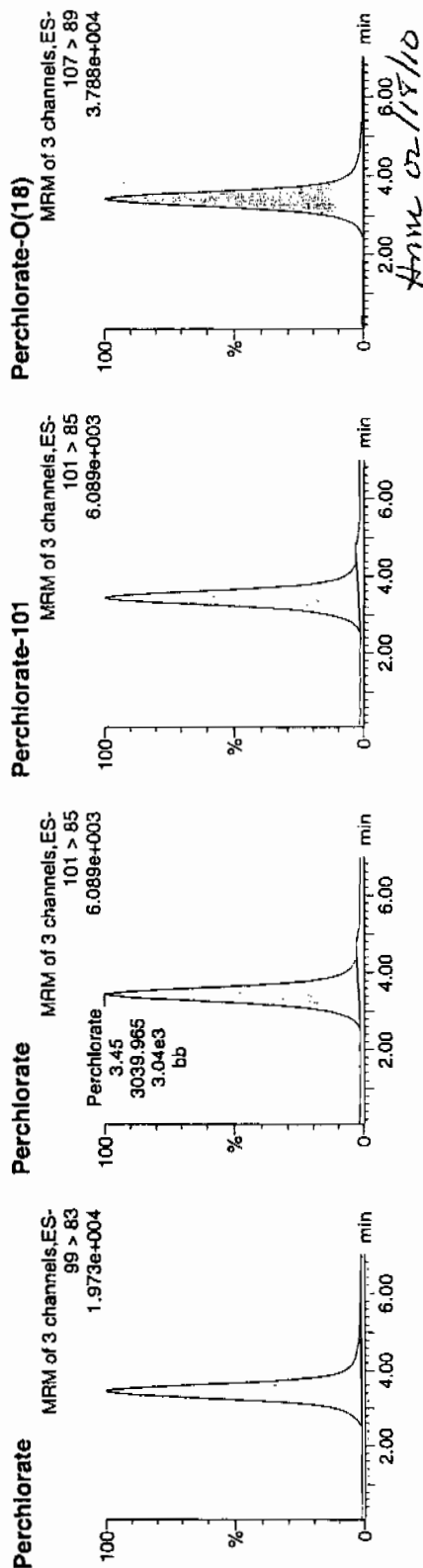
Time: 04:28:45

ID: 1202035611

Vial: 3:2,C

600
32-17-10

150042 | 122 | 105 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	IonRatio
1202035611	Perchlorate	99 > 83	3.45	10301.391	10301.391	bb			0.2116	105.78	5.78	719.648	3.39
1202035611	Perchlorate-101	101 > 85	3.45	3039.965	3039.965	bb			0.2006	100.29	0.29	228.870	
1202035611	Perchlorate-O(18)	107 > 89	3.42	20369.920	20369.920	bb			0.5050	101.00	1.00	1276.4...	

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per021610a.qld

Last Altered: Wednesday, February 17, 2010 11:09:37 AM Eastern Standard Time
Printed: Wednesday, February 17, 2010 11:11:37 AM Eastern Standard Time

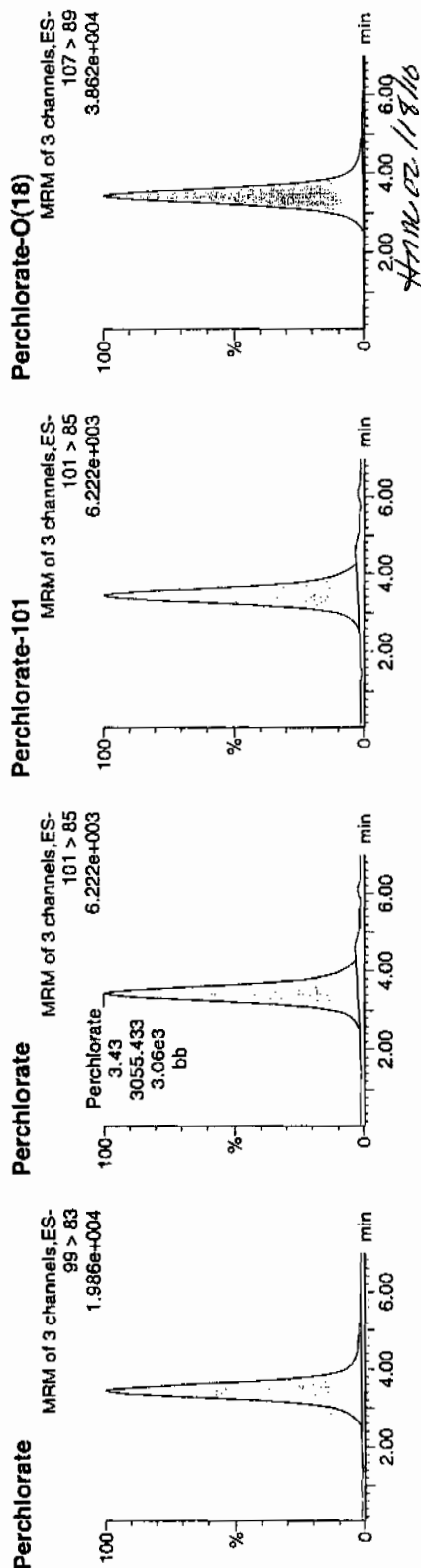
Name: per0216086a

Date: 17-Feb-2010

Time: 04:38:54

ID: 1202035612

Vial: 3:2,0



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
1202035612	Perchlorate	99 > 83	3.45	10430.546	10430.546	bb			0.2142	107.10	7.10	664.770	3.41
1202035612	Perchlorate-101	101 > 85	3.43	3055.433	3055.433	bb			0.2016	100.80	0.80	424.148	
1202035612	Perchlorate-O(18)	107 > 89	3.42	20102.609	20102.609	bb			0.4984	99.68	-0.32	6190.7...	

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 10-1565**

Sample Analysis

Sample ID	Client ID
246322001	RE15-10-7332
246322002	RE15-10-7333
246322003	RE15-10-7336
246322004	RE15-10-7337
246322005	RE15-10-7334
246322006	RE15-10-7335
246322007	RE15-10-7338
246322008	RE15-10-7339
246322009	RE15-10-7342
1202036249	Method Blank (MB) ICP
1202036254	Laboratory Control Sample (LCS)
1202036251	246322001(RE15-10-7332L) Serial Dilution (SD)
1202036250	246322001(RE15-10-7332D) Sample Duplicate (DUP)
1202036252	246322001(RE15-10-7332S) Matrix Spike (MS)
1202036253	246322001(RE15-10-7332SD) Matrix Spike Duplicate (MSD)
1202036266	Method Blank (MB) ICP-MS
1202060995	Method Blank (MB) ICP-MS
1202036271	Laboratory Control Sample (LCS)
1202061000	Laboratory Control Sample (LCS)
1202036268	246322001(RE15-10-7332L) Serial Dilution (SD)

1202060997	246322004(RE15-10-7337L) Serial Dilution (SD)
1202036267	246322001(RE15-10-7332D) Sample Duplicate (DUP)
1202060996	246322004(RE15-10-7337D) Sample Duplicate (DUP)
1202036269	246322001(RE15-10-7332S) Matrix Spike (MS)
1202060998	246322004(RE15-10-7337S) Matrix Spike (MS)
1202036270	246322001(RE15-10-7332SD) Matrix Spike Duplicate (MSD)
1202060999	246322004(RE15-10-7337SD) Matrix Spike Duplicate (MSD)
1202039372	Method Blank (MB) CVAA
1202039373	Laboratory Control Sample (LCS)
1202039376	246338001(RE46-10-11592L) Serial Dilution (SD)
1202039374	246338001(RE46-10-11592D) Sample Duplicate (DUP)
1202039375	246338001(RE46-10-11592S) Matrix Spike (MS)
1202039377	246338001(RE46-10-11592SD) Matrix Spike Duplicate (MSD)

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

Method/Analysis Information

Analytical Batch:	950257, 950262, 960900 and 951590
Prep Batch :	950254, 950260, 960899 and 951589
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 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.

ICSA/ICSAB Statement

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

Continuing Calibration Blank (CCB) Requirements

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

Continuing Calibration Verification (CCV) Requirements

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

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

The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement

The following samples were selected as the quality control (QC) samples for this SDG: 246322001 (RE15-10-7332), 246322004 (RE15-10-7337) and 246338001 (RE46-10-11592).

Matrix Spike (MS) Recovery Statement

The percent recoveries (%R) obtained from the MS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS met the recommended quality control acceptance criteria for percent recoveries for all applicable analytes with the exceptions of barium, manganese, sodium, nickel and selenium, as indicated by the "N" qualifiers.

Matrix Spike Duplicate (MSD) Recovery Statement

The percent recovery (%R) obtained from the MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MSD met the recommended quality control acceptance criteria for percent recoveries for all applicable analytes with the exceptions of barium, chromium, copper, magnesium, manganese, sodium, nickel and selenium, as indicated by the "N" qualifiers.

MS/MSD Relative Percent Difference (RPD) Statement

The relative percent difference (RPD) obtained from the designated matrix spike duplicate (MSD) is evaluated based on acceptance criteria of 20%. The RPD between qualifying elements results in the MS and MSD were within the acceptance limits of 20% with the exceptions of chromium, copper, iron, magnesium, manganese and nickel, as indicated by the "*" qualifiers.

Duplicate Relative Percent Difference (RPD) Statement

The relative percent difference (RPD) obtained from the designated sample duplicate (DUP) is evaluated based on acceptance criteria of 20% when the sample is 5X the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the contract required detection limit (RL), a control of +/-RL is used to evaluate the DUP results. All applicable analytes met these requirements with the exceptions of barium, calcium, copper, manganese, vanadium and nickel, as indicated by the "*" qualifiers.

Serial Dilution % Difference Statement

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

Technical Information**Holding Time Specifications**

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

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. The samples in this SDG were diluted the standard 2x for solids on the ICPMS.

Preparation Information

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

Miscellaneous Information**Electronic Packaging Comment**

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

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

Data Exception (DER) Documentation

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following DERs were generated for this SDG: 799083, 800005 and 800332. A copy of each DER is included in the Miscellaneous Data section of this package.

Additional Comments

Additional comments were not required for this SDG.

Certification Statement

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

Review Validation:

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

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

Reviewer: Kristen Farson Date: 3/8/10

Sample Data Summary

METALS
-I-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322001

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7332

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: SOIL

%SOLIDS: 93.5

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2220000	ug/Kg		6910	20300	20300	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-36-0	Antimony	1020	ug/Kg	U	335	1020	1020	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-38-2	Arsenic	1.22	mg/kg		0.208	1.04	1.04	2	MS	BAJ	03/05/10 00:42	100304-9	950262
7440-39-3	Barium	127000	ug/Kg	*N	102	508	508	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-41-7	Beryllium	0.120	mg/kg		0.0208	0.104	0.104	2	MS	BAJ	03/03/10 22:11	100303-8	950262
7440-43-9	Cadmium	508	ug/Kg	U	102	508	508	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-70-2	Calcium	2370000	ug/Kg	*	8130	25400	25400	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-47-3	Chromium	14000	ug/Kg	*N	152	508	508	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-48-4	Cobalt	2140	ug/Kg		152	508	508	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-50-8	Copper	34600	ug/Kg	*N	305	1020	1020	1	P	HSC	03/02/10 20:56	030210-1	950257
7439-89-6	Iron	6930000	ug/Kg	*	8130	25400	25400	1	P	HSC	03/02/10 20:56	030210-1	950257
7439-92-1	Lead	32700	ug/Kg		254	1020	1020	1	P	HSC	03/02/10 20:56	030210-1	950257
7439-95-4	Magnesium	1130000	ug/Kg	*N	8640	30500	30500	1	P	HSC	03/02/10 20:56	030210-1	950257
7439-96-5	Manganese	168000	ug/Kg	*N	203	1020	1020	1	P	HSC	03/02/10 20:56	030210-1	950257
7439-97-6	Mercury	12.2	ug/kg	U	4.16	12.2	12.2	1	AV	JXL1	02/22/10 11:54	022210S1-14	951590
7440-02-0	Nickel	3.1	mg/kg	*N	0.104	0.416	0.416	2	MS	BAJ	03/03/10 22:11	100303-8	950262
7440-09-7	Potassium	535000	ug/Kg		6500	25400	25400	1	P	HSC	03/02/10 20:56	030210-1	950257
7782-49-2	Selenium	1.04	mg/kg	UN	0.52	1.04	1.04	2	MS	BAJ	03/05/10 00:42	100304-9	950262
7440-22-4	Silver	142	ug/Kg	J	102	508	508	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-23-5	Sodium	134000	ug/Kg	N	7110	25400	25400	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-28-0	Thallium	0.208	mg/kg	U	0.0624	0.208	0.208	2	MS	PRB	03/05/10 13:02	100305-2	950262
7440-61-1	Uranium	1.27	mg/kg		0.0137	0.0416	0.0416	2	MS	BAJ	03/05/10 08:07	100304-13	950262
7440-62-2	Vanadium	20200	ug/Kg	*	102	508	508	1	P	HSC	03/02/10 20:56	030210-1	950257
7440-66-6	Zinc	27200	ug/Kg		335	1020	1020	1	P	HSC	03/02/10 20:56	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.526	g	50	ml	02/13/10	LYH1
950262	950260	SW846 3050B	0.514	g	50	ml	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.524	g	30	ml	02/19/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322002

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7333

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: SOIL

%SOLIDS: 94.3

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4990000	ug/Kg		7190	21100	21100	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-36-0	Antimony	1060	ug/Kg	U	349	1060	1060	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-38-2	Arsenic	1.2	mg/kg		0.202	1.01	1.01	2	MS	BAJ	03/05/10 01:00	100304-9	950262
7440-39-3	Barium	75600	ug/Kg	*N	106	528	528	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-41-7	Beryllium	0.614	mg/kg		0.0202	0.101	0.101	2	MS	BAJ	03/03/10 22:42	100303-8	950262
7440-43-9	Cadmium	528	ug/Kg	U	106	528	528	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-70-2	Calcium	4310000	ug/Kg	*	8450	26400	26400	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-47-3	Chromium	8580	ug/Kg	*N	158	528	528	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-48-4	Cobalt	3740	ug/Kg		158	528	528	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-50-8	Copper	8590	ug/Kg	*N	317	1060	1060	1	P	HSC	03/02/10 21:44	030210-1	950257
7439-89-6	Iron	10900000	ug/Kg	*	8450	26400	26400	1	P	HSC	03/02/10 21:44	030210-1	950257
7439-92-1	Lead	8210	ug/Kg		264	1060	1060	1	P	HSC	03/02/10 21:44	030210-1	950257
7439-95-4	Magnesium	1260000	ug/Kg	*N	8980	31700	31700	1	P	HSC	03/02/10 21:44	030210-1	950257
7439-96-5	Manganese	222000	ug/Kg	*N	211	1060	1060	1	P	HSC	03/02/10 21:44	030210-1	950257
7439-97-6	Mercury	10.8	ug/kg	U	3.67	10.8	10.8	1	AV	JXL1	02/22/10 11:56	022210S1-14	951590
7440-02-0	Nickel	4.27	mg/kg	*N	0.101	0.404	0.404	2	MS	BAJ	03/03/10 22:42	100303-8	950262
7440-09-7	Potassium	673000	ug/Kg		6760	26400	26400	1	P	HSC	03/02/10 21:44	030210-1	950257
7782-49-2	Selenium	1.01	mg/kg	UN	0.505	1.01	1.01	2	MS	BAJ	03/05/10 01:00	100304-9	950262
7440-22-4	Silver	390	ug/Kg	J	106	528	528	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-23-5	Sodium	181000	ug/Kg	N	7400	26400	26400	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-28-0	Thallium	0.202	mg/kg	U	0.0606	0.202	0.202	2	MS	PRB	03/05/10 13:18	100305-2	950262
7440-61-1	Uranium	7.77	mg/kg		0.0133	0.0404	0.0404	2	MS	BAJ	03/05/10 08:16	100304-13	950262
7440-62-2	Vanadium	15700	ug/Kg	*	106	528	528	1	P	HSC	03/02/10 21:44	030210-1	950257
7440-66-6	Zinc	26200	ug/Kg		349	1060	1060	1	P	HSC	03/02/10 21:44	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.502	g	50	mL	02/13/10	LYH1
950262	950260	SW846 3050B	0.525	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.589	g	30	mL	02/19/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322003

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7336

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: SOIL

%SOLIDS: 92.8

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1080000	ug/Kg		7330	21600	21600	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-36-0	Antimony	1080	ug/Kg	U	356	1080	1080	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-38-2	Arsenic	1.53	mg/kg		0.212	1.06	1.06	2	MS	BAJ	03/05/10 01:11	100304-9	950262
7440-39-3	Barium	23300	ug/Kg	*N	108	539	539	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-41-7	Beryllium	0.141	mg/kg		0.0212	0.106	0.106	2	MS	BAJ	03/03/10 22:48	100303-8	950262
7440-43-9	Cadmium	539	ug/Kg	U	108	539	539	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-70-2	Calcium	1400000	ug/Kg	*	8620	27000	27000	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-47-3	Chromium	6750	ug/Kg	*N	162	539	539	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-48-4	Cobalt	966	ug/Kg		162	539	539	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-50-8	Copper	7130	ug/Kg	*N	323	1080	1080	1	P	HSC	03/02/10 21:51	030210-1	950257
7439-89-6	Iron	3270000	ug/Kg	*	8620	27000	27000	1	P	HSC	03/02/10 21:51	030210-1	950257
7439-92-1	Lead	4330	ug/Kg		270	1080	1080	1	P	HSC	03/02/10 21:51	030210-1	950257
7439-95-4	Magnesium	487000	ug/Kg	*N	9160	32300	32300	1	P	HSC	03/02/10 21:51	030210-1	950257
7439-96-5	Manganese	51300	ug/Kg	*N	216	1080	1080	1	P	HSC	03/02/10 21:51	030210-1	950257
7439-97-6	Mercury	10.8	ug/kg	U	3.67	10.8	10.8	1	AV	JXL1	02/22/10 11:58	022210S1-14	951590
7440-02-0	Nickel	5.37	mg/kg	*N	0.106	0.424	0.424	2	MS	BAJ	03/03/10 22:48	100303-8	950262
7440-09-7	Potassium	235000	ug/Kg		6900	27000	27000	1	P	HSC	03/02/10 21:51	030210-1	950257
7782-49-2	Selenium	1.06	mg/kg	UN	0.531	1.06	1.06	2	MS	BAJ	03/05/10 01:11	100304-9	950262
7440-22-4	Silver	539	ug/Kg	U	108	539	539	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-23-5	Sodium	87000	ug/Kg	N	7550	27000	27000	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-28-0	Thallium	0.212	mg/kg	U	0.0637	0.212	0.212	2	MS	PRB	03/05/10 13:20	100305-2	950262
7440-61-1	Uranium	2.39	mg/kg		0.014	0.0424	0.0424	2	MS	BAJ	03/05/10 08:21	100304-13	950262
7440-62-2	Vanadium	5860	ug/Kg	*	108	539	539	1	P	HSC	03/02/10 21:51	030210-1	950257
7440-66-6	Zinc	9390	ug/Kg		356	1080	1080	1	P	HSC	03/02/10 21:51	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.5	g	50	mL	02/13/10	LYHJ
950262	950260	SW846 3050B	0.508	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.6	g	30	mL	02/19/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322004

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7337

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: SOIL

%SOLIDS: 94.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2710000	ug/Kg		6860	20200	20200	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-36-0	Antimony	1010	ug/Kg	U	333	1010	1010	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-38-2	Arsenic	1.55	mg/kg		0.207	1.03	1.03	2	MS	PRB	03/05/10 23:57	100305-4	960900
7440-39-3	Barium	62500	ug/Kg	*N	101	505	505	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-41-7	Beryllium	0.189	mg/kg		0.0207	0.103	0.103	2	MS	PRB	03/05/10 23:57	100305-4	960900
7440-43-9	Cadmium	505	ug/Kg	U	101	505	505	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-70-2	Calcium	6080000	ug/Kg	*	8070	25200	25200	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-47-3	Chromium	5790	ug/Kg	*N	151	505	505	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-48-4	Cobalt	4270	ug/Kg		151	505	505	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-50-8	Copper	4320	ug/Kg	*N	303	1010	1010	1	P	HSC	03/02/10 21:58	030210-1	950257
7439-89-6	Iron	7410000	ug/Kg	*	8070	25200	25200	1	P	HSC	03/02/10 21:58	030210-1	950257
7439-92-1	Lead	3670	ug/Kg		252	1010	1010	1	P	HSC	03/02/10 21:58	030210-1	950257
7439-95-4	Magnesium	1080000	ug/Kg	*N	8580	30300	30300	1	P	HSC	03/02/10 21:58	030210-1	950257
7439-96-5	Manganese	129000	ug/Kg	*N	202	1010	1010	1	P	HSC	03/02/10 21:58	030210-1	950257
7439-97-6	Mercury	8.02	ug/kg	J	4.13	12.2	12.2	1	AV	JXL1	02/22/10 11:59	022210S1-14	951590
7440-02-0	Nickel	4.1	mg/kg	*N	0.103	0.413	0.413	2	MS	PRB	03/05/10 23:57	100305-4	960900
7440-09-7	Potassium	507000	ug/Kg		6460	25200	25200	1	P	HSC	03/02/10 21:58	030210-1	950257
7782-49-2	Selenium	1.03	mg/kg	UN	0.516	1.03	1.03	2	MS	PRB	03/06/10 09:07	100305-7	960900
7440-22-4	Silver	108	ug/Kg	J	101	505	505	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-23-5	Sodium	89800	ug/Kg	N	7060	25200	25200	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-28-0	Thallium	0.0899	mg/kg	J	0.062	0.207	0.207	2	MS	PRB	03/05/10 23:57	100305-4	960900
7440-61-1	Uranium	1.08	mg/kg		0.0136	0.0413	0.0413	2	MS	PRB	03/05/10 23:57	100305-4	960900
7440-62-2	Vanadium	12700	ug/Kg	*	101	505	505	1	P	HSC	03/02/10 21:58	030210-1	950257
7440-66-6	Zinc	13300	ug/Kg		333	1010	1010	1	P	HSC	03/02/10 21:58	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.525	g	50	mL	02/13/10	LYHI
951590	951589	SW846 7471A Prep	0.523	g	30	mL	02/19/10	TXB3
960900	960899	SW846 3050B	0.513	g	50	mL	03/04/10	LYHI

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322005

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7334

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: SOIL

%SOLIDS: 78

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3710000	ug/Kg		8440	24800	24800	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-36-0	Antimony	1240	ug/Kg	U	410	1240	1240	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-38-2	Arsenic	0.802	mg/kg	J	0.257	1.28	1.28	2	MS	BAJ	03/05/10 01:15	100304-9	950262
7440-39-3	Barium	53300	ug/Kg	*N	124	621	621	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-41-7	Beryllium	0.178	mg/kg		0.0257	0.128	0.128	2	MS	BAJ	03/03/10 23:12	100303-8	950262
7440-43-9	Cadmium	621	ug/Kg	U	124	621	621	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-70-2	Calcium	2960000	ug/Kg	*	9930	31000	31000	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-47-3	Chromium	25400	ug/Kg	*N	186	621	621	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-48-4	Cobalt	2740	ug/Kg		186	621	621	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-50-8	Copper	41300	ug/Kg	*N	372	1240	1240	1	P	HSC	03/02/10 22:05	030210-1	950257
7439-89-6	Iron	10400000	ug/Kg	*	9930	31000	31000	1	P	HSC	03/02/10 22:05	030210-1	950257
7439-92-1	Lead	16600	ug/Kg		310	1240	1240	1	P	HSC	03/02/10 22:05	030210-1	950257
7439-95-4	Magnesium	1290000	ug/Kg	*N	10600	37200	37200	1	P	HSC	03/02/10 22:05	030210-1	950257
7439-96-5	Manganese	220000	ug/Kg	*N	248	1240	1240	1	P	HSC	03/02/10 22:05	030210-1	950257
7439-97-6	Mercury	14.3	ug/kg	U	4.85	14.3	14.3	1	AV	JXL1	02/22/10 12:01	022210S1-14	951590
7440-02-0	Nickel	3.75	mg/kg	*N	0.128	0.513	0.513	2	MS	BAJ	03/03/10 23:12	100303-8	950262
7440-09-7	Potassium	709000	ug/Kg		7940	31000	31000	1	P	HSC	03/02/10 22:05	030210-1	950257
7782-49-2	Selenium	1.28	mg/kg	UN	0.642	1.28	1.28	2	MS	BAJ	03/05/10 01:15	100304-9	950262
7440-22-4	Silver	376	ug/Kg	J	124	621	621	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-23-5	Sodium	157000	ug/Kg	N	8690	31000	31000	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-28-0	Thallium	0.257	mg/kg	U	0.077	0.257	0.257	2	MS	PRB	03/05/10 13:22	100305-2	950262
7440-61-1	Uranium	3.7	mg/kg		0.0169	0.0513	0.0513	2	MS	BAJ	03/05/10 08:22	100304-13	950262
7440-62-2	Vanadium	11200	ug/Kg	*	124	621	621	1	P	HSC	03/02/10 22:05	030210-1	950257
7440-66-6	Zinc	38400	ug/Kg		410	1240	1240	1	P	HSC	03/02/10 22:05	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.517	g	50	mL	02/13/10	LYH1
950262	950260	SW846 3050B	0.5	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.54	g	30	mL	02/19/10	TXB3

METALS
-I-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322006

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7335

LEVEL: Low

DATE RECEIVED 05-FEB-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	4520000	ug/Kg		7730	22700	22700	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-36-0	Antimony	1270	ug/Kg		375	1140	1140	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-38-2	Arsenic	1.24	mg/kg		0.225	1.13	1.13	2	MS	BAJ	03/05/10 01:18	100304-9	950262
7440-39-3	Barium	50200	ug/Kg	*N	114	568	568	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-41-7	Beryllium	0.558	mg/kg		0.0225	0.113	0.113	2	MS	BAJ	03/03/10 23:19	100303-8	950262
7440-43-9	Cadmium	568	ug/Kg	U	114	568	568	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-70-2	Calcium	2810000	ug/Kg	*	9090	28400	28400	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-47-3	Chromium	3830	ug/Kg	*N	171	568	568	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-48-4	Cobalt	1350	ug/Kg		171	568	568	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-50-8	Copper	4020	ug/Kg	*N	341	1140	1140	1	P	HSC	03/02/10 22:12	030210-1	950257
7439-89-6	Iron	10200000	ug/Kg	*	9090	28400	28400	1	P	HSC	03/02/10 22:12	030210-1	950257
7439-92-1	Lead	6900	ug/Kg		284	1140	1140	1	P	HSC	03/02/10 22:12	030210-1	950257
7439-95-4	Magnesium	953000	ug/Kg	*N	9660	34100	34100	1	P	HSC	03/02/10 22:12	030210-1	950257
7439-96-5	Manganese	237000	ug/Kg	*N	227	1140	1140	1	P	HSC	03/02/10 22:12	030210-1	950257
7439-97-6	Mercury	8.04	ug/kg	J	4.41	13	13	1	AV	JXL1	02/22/10 12:03	022210S1-14	951590
7440-02-0	Nickel	3.42	mg/kg	*N	0.113	0.45	0.45	2	MS	BAJ	03/03/10 23:19	100303-8	950262
7440-09-7	Potassium	706000	ug/Kg		7280	28400	28400	1	P	HSC	03/02/10 22:12	030210-1	950257
7782-49-2	Selenium	1.13	mg/kg	UN	0.563	1.13	1.13	2	MS	BAJ	03/05/10 01:18	100304-9	950262
7440-22-4	Silver	296	ug/Kg	J	114	568	568	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-23-5	Sodium	91900	ug/Kg	N	7960	28400	28400	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-28-0	Thallium	0.225	mg/kg	U	0.0675	0.225	0.225	2	MS	PRB	03/05/10 13:24	100305-2	950262
7440-61-1	Uranium	4.26	mg/kg		0.0149	0.045	0.045	2	MS	BAJ	03/05/10 08:24	100304-13	950262
7440-62-2	Vanadium	9920	ug/Kg	*	114	568	568	1	P	HSC	03/02/10 22:12	030210-1	950257
7440-66-6	Zinc	34800	ug/Kg		375	1140	1140	1	P	HSC	03/02/10 22:12	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.5	g	50	mL	02/13/10	LYH1
950262	950260	SW846 3050B	0.505	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.526	g	30	mL	02/19/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322007

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7338

LEVEL: Low

DATE RECEIVED 05-FEB-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	3850000	ug/Kg		8410	24700	24700	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-36-0	Antimony	3770	ug/Kg		408	1240	1240	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-38-2	Arsenic	1.62	mg/kg		0.225	1.13	1.13	2	MS	BAJ	03/05/10 01:22	100304-9	950262
7440-39-3	Barium	63700	ug/Kg	*N	124	618	618	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-41-7	Beryllium	0.214	mg/kg		0.0225	0.113	0.113	2	MS	BAJ	03/03/10 23:25	100303-8	950262
7440-43-9	Cadmium	618	ug/Kg	U	124	618	618	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-70-2	Calcium	4520000	ug/Kg	*	9890	30900	30900	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-47-3	Chromium	14000	ug/Kg	*N	185	618	618	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-48-4	Cobalt	14000	ug/Kg		185	618	618	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-50-8	Copper	21700	ug/Kg	*N	371	1240	1240	1	P	HSC	03/02/10 22:19	030210-1	950257
7439-89-6	Iron	9010000	ug/Kg	*	9890	30900	30900	1	P	HSC	03/02/10 22:19	030210-1	950257
7439-92-1	Lead	370000	ug/Kg		309	1240	1240	1	P	HSC	03/02/10 22:19	030210-1	950257
7439-95-4	Magnesium	1580000	ug/Kg	*N	10500	37100	37100	1	P	HSC	03/02/10 22:19	030210-1	950257
7439-96-5	Manganese	165000	ug/Kg	*N	247	1240	1240	1	P	HSC	03/02/10 22:19	030210-1	950257
7439-97-6	Mercury	13.1	ug/kg	U	4.46	13.1	13.1	1	AV	JXLJ	02/22/10 12:05	022210S1-14	951590
7440-02-0	Nickel	4.54	mg/kg	*N	0.113	0.451	0.451	2	MS	BAJ	03/03/10 23:25	100303-8	950262
7440-09-7	Potassium	845000	ug/Kg		7910	30900	30900	1	P	HSC	03/02/10 22:19	030210-1	950257
7782-49-2	Selenium	1.13	mg/kg	UN	0.563	1.13	1.13	2	MS	BAJ	03/05/10 01:22	100304-9	950262
7440-22-4	Silver	174	ug/Kg	J	124	618	618	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-23-5	Sodium	169000	ug/Kg	N	8660	30900	30900	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-28-0	Thallium	0.225	mg/kg	U	0.0676	0.225	0.225	2	MS	PRB	03/05/10 13:27	100305-2	950262
7440-61-1	Uranium	3.8	mg/kg		0.0149	0.0451	0.0451	2	MS	BAJ	03/05/10 08:26	100304-13	950262
7440-62-2	Vanadium	16300	ug/Kg	*	124	618	618	1	P	HSC	03/02/10 22:19	030210-1	950257
7440-66-6	Zinc	27200	ug/Kg		408	1240	1240	1	P	HSC	03/02/10 22:19	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.502	g	50	mL	02/13/10	LYHI
950262	950260	SW846 3050B	0.551	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.568	g	30	mL	02/19/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322008

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7339

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: SOIL

%SOLIDS: 87

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	2980000	ug/Kg		7800	22900	22900	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-36-0	Antimony	1150	ug/Kg	U	378	1150	1150	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-38-2	Arsenic	1.36	mg/kg		0.226	1.13	1.13	2	MS	BAJ	03/05/10 01:25	100304-9	950262
7440-39-3	Barium	38000	ug/Kg	*N	115	573	573	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-41-7	Beryllium	0.480	mg/kg		0.0226	0.113	0.113	2	MS	BAJ	03/03/10 23:31	100303-8	950262
7440-43-9	Cadmium	573	ug/Kg	U	115	573	573	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-70-2	Calcium	928000	ug/Kg	*	9170	28700	28700	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-47-3	Chromium	2970	ug/Kg	*N	172	573	573	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-48-4	Cobalt	958	ug/Kg		172	573	573	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-50-8	Copper	3150	ug/Kg	*N	344	1150	1150	1	P	HSC	03/02/10 22:25	030210-1	950257
7439-89-6	Iron	7800000	ug/Kg	*	9170	28700	28700	1	P	HSC	03/02/10 22:25	030210-1	950257
7439-92-1	Lead	4940	ug/Kg		287	1150	1150	1	P	HSC	03/02/10 22:25	030210-1	950257
7439-95-4	Magnesium	576000	ug/Kg	*N	9750	34400	34400	1	P	HSC	03/02/10 22:25	030210-1	950257
7439-96-5	Manganese	215000	ug/Kg	*N	229	1150	1150	1	P	HSC	03/02/10 22:25	030210-1	950257
7439-97-6	Mercury	13	ug/kg	U	4.42	13	13	1	AV	JXL	02/22/10 12:06	022210S1-14	951590
7440-02-0	Nickel	3.21	mg/kg	*N	0.113	0.451	0.451	2	MS	BAJ	03/03/10 23:31	100303-8	950262
7440-09-7	Potassium	457000	ug/Kg		7340	28700	28700	1	P	HSC	03/02/10 22:25	030210-1	950257
7782-49-2	Selenium	1.13	mg/kg	UN	0.564	1.13	1.13	2	MS	BAJ	03/05/10 01:25	100304-9	950262
7440-22-4	Silver	310	ug/Kg	J	115	573	573	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-23-5	Sodium	147000	ug/Kg	N	8030	28700	28700	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-28-0	Thallium	0.226	mg/kg	U	0.0677	0.226	0.226	2	MS	PRB	03/05/10 13:29	100305-2	950262
7440-61-1	Uranium	4.03	mg/kg		0.0149	0.0451	0.0451	2	MS	BAJ	03/05/10 08:27	100304-13	950262
7440-62-2	Vanadium	4890	ug/Kg	*	115	573	573	1	P	HSC	03/02/10 22:25	030210-1	950257
7440-66-6	Zinc	32000	ug/Kg		378	1150	1150	1	P	HSC	03/02/10 22:25	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.503	g	50	mL	02/13/10	LYTH
950262	950260	SW846 3050B	0.511	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.532	g	30	mL	02/19/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246322009

BASIS: Dry Weight

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7342

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: SOIL

%SOLIDS: 94.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	1840000	ug/Kg		6860	20200	20200	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-36-0	Antimony	1010	ug/Kg	U	333	1010	1010	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-38-2	Arsenic	0.820	mg/kg	J	0.207	1.03	1.03	2	MS	BAJ	03/05/10 01:29	100304-9	950262
7440-39-3	Barium	55900	ug/Kg	*N	101	505	505	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-41-7	Beryllium	0.145	mg/kg		0.0207	0.103	0.103	2	MS	BAJ	03/03/10 23:37	100303-8	950262
7440-43-9	Cadmium	505	ug/Kg	U	101	505	505	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-70-2	Calcium	1980000	ug/Kg	*	8080	25200	25200	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-47-3	Chromium	9690	ug/Kg	*N	151	505	505	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-48-4	Cobalt	1590	ug/Kg		151	505	505	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-50-8	Copper	35900	ug/Kg	*N	303	1010	1010	1	P	HSC	03/02/10 22:32	030210-1	950257
7439-89-6	Iron	5560000	ug/Kg	*	8080	25200	25200	1	P	HSC	03/02/10 22:32	030210-1	950257
7439-92-1	Lead	33800	ug/Kg		252	1010	1010	1	P	HSC	03/02/10 22:32	030210-1	950257
7439-95-4	Magnesium	870000	ug/Kg	*N	8580	30300	30300	1	P	HSC	03/02/10 22:32	030210-1	950257
7439-96-5	Manganese	146000	ug/Kg	*N	202	1010	1010	1	P	HSC	03/02/10 22:32	030210-1	950257
7439-97-6	Mercury	10.8	ug/kg	U	3.68	10.8	10.8	1	AV	JXL	02/22/10 12:11	022210S1-14	951590
7440-02-0	Nickel	4.87	mg/kg	*N	0.103	0.413	0.413	2	MS	BAJ	03/03/10 23:37	100303-8	950262
7440-09-7	Potassium	476000	ug/Kg		6460	25200	25200	1	P	HSC	03/02/10 22:32	030210-1	950257
7782-49-2	Selenium	1.03	mg/kg	UN	0.516	1.03	1.03	2	MS	BAJ	03/05/10 01:29	100304-9	950262
7440-22-4	Silver	175	ug/Kg	J	101	505	505	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-23-5	Sodium	119000	ug/Kg	N	7070	25200	25200	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-28-0	Thallium	0.207	mg/kg	U	0.062	0.207	0.207	2	MS	PRB	03/05/10 13:31	100305-2	950262
7440-61-1	Uranium	1.19	mg/kg		0.0136	0.0413	0.0413	2	MS	BAJ	03/05/10 08:29	100304-13	950262
7440-62-2	Vanadium	9520	ug/Kg	*	101	505	505	1	P	HSC	03/02/10 22:32	030210-1	950257
7440-66-6	Zinc	22100	ug/Kg		333	1010	1010	1	P	HSC	03/02/10 22:32	030210-1	950257

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950257	950254	SW846 3050B	0.525	g	50	mL	02/13/10	LYH1
950262	950260	SW846 3050B	0.513	g	50	mL	02/15/10	FGA
951590	951589	SW846 7471A Prep	0.588	g	30	mL	02/19/10	TXB3

Quality Control Summary

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1565

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Mercury	5.15	ug/L	5	ug/L	103	90.0 - 110.0	AV	22-FEB-10 09:22	022210S1-14
	Aluminum	5020	ug/L	5000	ug/L	100.5	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Antimony	521	ug/L	500	ug/L	104.1	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Barium	509	ug/L	500	ug/L	101.9	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Cadmium	492	ug/L	500	ug/L	98.3	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Calcium	5040	ug/L	5000	ug/L	100.7	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Chromium	488	ug/L	500	ug/L	97.6	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Cobalt	516	ug/L	500	ug/L	103.2	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Copper	504	ug/L	500	ug/L	100.8	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Iron	5130	ug/L	5000	ug/L	102.5	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Lead	506	ug/L	500	ug/L	101.3	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Magnesium	5250	ug/L	5000	ug/L	105.1	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Manganese	515	ug/L	500	ug/L	103	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Potassium	2520	ug/L	2500	ug/L	100.7	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Silver	252	ug/L	250	ug/L	101	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Sodium	2400	ug/L	2500	ug/L	95.8	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Vanadium	511	ug/L	500	ug/L	102.3	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Zinc	503	ug/L	500	ug/L	100.6	90.0 - 110.0	P	02-MAR-10 13:26	030210-1
	Beryllium	51.3	ug/L	50	ug/L	102.5	90.0 - 110.0	MS	03-MAR-10 20:27	100303-8
	Nickel	52	ug/L	50	ug/L	103.9	90.0 - 110.0	MS	03-MAR-10 20:27	100303-8
	Arsenic	51	ug/L	50	ug/L	102	90.0 - 110.0	MS	04-MAR-10 23:51	100304-9
	Selenium	52.5	ug/L	50	ug/L	105	90.0 - 110.0	MS	04-MAR-10 23:51	100304-9
	Uranium	54.7	ug/L	50	ug/L	109.4	90.0 - 110.0	MS	05-MAR-10 07:12	100304-13
	Thallium	50.2	ug/L	50	ug/L	100.4	90.0 - 110.0	MS	05-MAR-10 12:34	100305-2
	Arsenic	49.5	ug/L	50	ug/L	98.9	90.0 - 110.0	MS	05-MAR-10 23:04	100305-4
	Beryllium	52.2	ug/L	50	ug/L	104.3	90.0 - 110.0	MS	05-MAR-10 23:04	100305-4
	Nickel	52.7	ug/L	50	ug/L	105.5	90.0 - 110.0	MS	05-MAR-10 23:04	100305-4
	Thallium	50.3	ug/L	50	ug/L	100.5	90.0 - 110.0	MS	05-MAR-10 23:04	100305-4
	Uranium	54.9	ug/L	50	ug/L	109.7	90.0 - 110.0	MS	05-MAR-10 23:04	100305-4
	Selenium	53.5	ug/L	50	ug/L	107	90.0 - 110.0	MS	06-MAR-10 08:49	100305-7

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1565

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV01										
	Mercury	5.06	ug/L	5	ug/L	101.1	80.0 – 120.0	AV	22-FEB-10 09:27	022210S1-14
	Aluminum	4860	ug/L	5000	ug/L	97.1	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Antimony	520	ug/L	500	ug/L	104	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Barium	489	ug/L	500	ug/L	97.9	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Cadmium	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Calcium	4990	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Chromium	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Cobalt	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Copper	483	ug/L	500	ug/L	96.6	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Iron	5030	ug/L	5000	ug/L	100.7	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Lead	499	ug/L	500	ug/L	99.7	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Magnesium	5060	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Manganese	488	ug/L	500	ug/L	97.6	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Potassium	5300	ug/L	5000	ug/L	106	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Silver	486	ug/L	500	ug/L	97.1	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Sodium	10100	ug/L	10000	ug/L	100.8	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Vanadium	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Zinc	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	02-MAR-10 14:11	030210-1
	Beryllium	52.4	ug/L	50	ug/L	104.7	90.0 – 110.0	MS	03-MAR-10 20:58	100303-8
	Nickel	51.8	ug/L	50	ug/L	103.6	90.0 – 110.0	MS	03-MAR-10 20:58	100303-8
	Arsenic	51.7	ug/L	50	ug/L	103.4	90.0 – 110.0	MS	05-MAR-10 00:09	100304-9
	Selenium	52	ug/L	50	ug/L	104	90.0 – 110.0	MS	05-MAR-10 00:09	100304-9
	Uranium	54.1	ug/L	50	ug/L	108.2	90.0 – 110.0	MS	05-MAR-10 07:20	100304-13
	Thallium	50.1	ug/L	50	ug/L	100.3	90.0 – 110.0	MS	05-MAR-10 12:45	100305-2
	Arsenic	50.6	ug/L	50	ug/L	101.1	90.0 – 110.0	MS	05-MAR-10 23:26	100305-4
	Beryllium	50.1	ug/L	50	ug/L	100.3	90.0 – 110.0	MS	05-MAR-10 23:26	100305-4
	Nickel	51.8	ug/L	50	ug/L	103.7	90.0 – 110.0	MS	05-MAR-10 23:26	100305-4
	Thallium	51.1	ug/L	50	ug/L	102.3	90.0 – 110.0	MS	05-MAR-10 23:26	100305-4
	Uranium	55.2	ug/L	50	ug/L	110.3	90.0 – 110.0	MS	05-MAR-10 23:26	100305-4
	Selenium	49.6	ug/L	50	ug/L	99.2	90.0 – 110.0	MS	06-MAR-10 08:59	100305-7

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1565

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV02										
	Mercury	5	ug/L	5	ug/L	99.9	80.0 – 120.0	AV	22-FEB-10 09:47	022210S1-14
	Aluminum	4900	ug/L	5000	ug/L	97.9	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Antimony	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Barium	493	ug/L	500	ug/L	98.5	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Cadmium	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Calcium	4990	ug/L	5000	ug/L	99.8	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Chromium	492	ug/L	500	ug/L	98.3	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Cobalt	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Copper	486	ug/L	500	ug/L	97.2	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Iron	5020	ug/L	5000	ug/L	100.4	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Lead	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Magnesium	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Manganese	491	ug/L	500	ug/L	98.3	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Potassium	5070	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Silver	489	ug/L	500	ug/L	97.8	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Sodium	9970	ug/L	10000	ug/L	99.7	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Vanadium	496	ug/L	500	ug/L	99.2	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Zinc	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	02-MAR-10 14:34	030210-1
	Beryllium	52.3	ug/L	50	ug/L	104.6	90.0 – 110.0	MS	03-MAR-10 21:16	100303-8
	Nickel	51.4	ug/L	50	ug/L	102.9	90.0 – 110.0	MS	03-MAR-10 21:16	100303-8
	Arsenic	49.8	ug/L	50	ug/L	99.5	90.0 – 110.0	MS	05-MAR-10 00:34	100304-9
	Selenium	51.2	ug/L	50	ug/L	102.5	90.0 – 110.0	MS	05-MAR-10 00:34	100304-9
	Uranium	53.2	ug/L	50	ug/L	106.4	90.0 – 110.0	MS	05-MAR-10 07:37	100304-13
	Thallium	50.3	ug/L	50	ug/L	100.5	90.0 – 110.0	MS	05-MAR-10 13:13	100305-2
	Arsenic	50.3	ug/L	50	ug/L	100.6	90.0 – 110.0	MS	05-MAR-10 23:39	100305-4
	Beryllium	49.3	ug/L	50	ug/L	98.6	90.0 – 110.0	MS	05-MAR-10 23:39	100305-4
	Nickel	52.3	ug/L	50	ug/L	104.5	90.0 – 110.0	MS	05-MAR-10 23:39	100305-4
	Thallium	50.6	ug/L	50	ug/L	101.3	90.0 – 110.0	MS	05-MAR-10 23:39	100305-4
	Uranium	54.9	ug/L	50	ug/L	109.8	90.0 – 110.0	MS	05-MAR-10 23:39	100305-4
	Selenium	47.8	ug/L	50	ug/L	95.6	90.0 – 110.0	MS	06-MAR-10 09:18	100305-7

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1565

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV03										
	Mercury	5.04	ug/L	5	ug/L	100.8	80.0 - 120.0	AV	22-FEB-10 10:07	022210S1-14
	Aluminum	5000	ug/L	5000	ug/L	100	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Antimony	510	ug/L	500	ug/L	101.9	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Barium	494	ug/L	500	ug/L	98.8	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Cadmium	495	ug/L	500	ug/L	99.1	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Calcium	5020	ug/L	5000	ug/L	100.5	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Chromium	493	ug/L	500	ug/L	98.5	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Cobalt	506	ug/L	500	ug/L	101.1	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Copper	487	ug/L	500	ug/L	97.5	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Iron	4950	ug/L	5000	ug/L	99.1	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Lead	498	ug/L	500	ug/L	99.7	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Magnesium	5010	ug/L	5000	ug/L	100.3	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Manganese	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Potassium	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Silver	491	ug/L	500	ug/L	98.2	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Sodium	9640	ug/L	10000	ug/L	96.4	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Vanadium	498	ug/L	500	ug/L	99.7	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Zinc	488	ug/L	500	ug/L	97.7	90.0 - 110.0	P	02-MAR-10 15:43	030210-1
	Beryllium	51.9	ug/L	50	ug/L	103.7	90.0 - 110.0	MS	03-MAR-10 21:59	100303-8
	Nickel	50.4	ug/L	50	ug/L	100.7	90.0 - 110.0	MS	03-MAR-10 21:59	100303-8
	Arsenic	50.8	ug/L	50	ug/L	101.6	90.0 - 110.0	MS	05-MAR-10 01:04	100304-9
	Selenium	50.8	ug/L	50	ug/L	101.5	90.0 - 110.0	MS	05-MAR-10 01:04	100304-9
	Uranium	52.5	ug/L	50	ug/L	105	90.0 - 110.0	MS	05-MAR-10 07:52	100304-13
	Thallium	50.1	ug/L	50	ug/L	100.1	90.0 - 110.0	MS	05-MAR-10 13:33	100305-2
	Arsenic	50.1	ug/L	50	ug/L	100.3	90.0 - 110.0	MS	06-MAR-10 00:20	100305-4
	Beryllium	50.4	ug/L	50	ug/L	100.8	90.0 - 110.0	MS	06-MAR-10 00:20	100305-4
	Nickel	53.7	ug/L	50	ug/L	107.4	90.0 - 110.0	MS	06-MAR-10 00:20	100305-4
	Thallium	51.3	ug/L	50	ug/L	102.6	90.0 - 110.0	MS	06-MAR-10 00:20	100305-4
	Uranium	54.8	ug/L	50	ug/L	109.6	90.0 - 110.0	MS	06-MAR-10 00:20	100305-4

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1565

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

Sample ID	Analyte	Result	Units	True Value	Units	% Recovery	Acceptance Window (%R)	M	Analysis Date/Time	Run Number
CCV04										
	Mercury	5.11	ug/L	5	ug/L	102.3	80.0 - 120.0	AV	22-FEB-10 10:27	022210S1-14
	Aluminum	4910	ug/L	5000	ug/L	98.3	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Antimony	514	ug/L	500	ug/L	102.8	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Barium	498	ug/L	500	ug/L	99.7	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Cadmium	500	ug/L	500	ug/L	100	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Calcium	5000	ug/L	5000	ug/L	100	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Chromium	500	ug/L	500	ug/L	100	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Cobalt	510	ug/L	500	ug/L	102	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Copper	493	ug/L	500	ug/L	98.7	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Iron	5110	ug/L	5000	ug/L	102.1	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Lead	500	ug/L	500	ug/L	100	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Magnesium	5080	ug/L	5000	ug/L	101.7	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Manganese	498	ug/L	500	ug/L	99.5	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Potassium	5020	ug/L	5000	ug/L	100.4	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Silver	498	ug/L	500	ug/L	99.6	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Sodium	10500	ug/L	10000	ug/L	104.5	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Vanadium	505	ug/L	500	ug/L	101	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Zinc	495	ug/L	500	ug/L	99	90.0 - 110.0	P	02-MAR-10 16:46	030210-1
	Beryllium	51	ug/L	50	ug/L	101.9	90.0 - 110.0	MS	03-MAR-10 22:54	100303-8
	Nickel	51.2	ug/L	50	ug/L	102.5	90.0 - 110.0	MS	03-MAR-10 22:54	100303-8
	Arsenic	49.7	ug/L	50	ug/L	99.5	90.0 - 110.0	MS	05-MAR-10 01:33	100304-9
	Selenium	50.9	ug/L	50	ug/L	101.9	90.0 - 110.0	MS	05-MAR-10 01:33	100304-9
	Uranium	52.4	ug/L	50	ug/L	104.7	90.0 - 110.0	MS	05-MAR-10 08:04	100304-13
	Thallium	49.7	ug/L	50	ug/L	99.4	90.0 - 110.0	MS	05-MAR-10 13:42	100305-2
	Arsenic	51.3	ug/L	50	ug/L	102.5	90.0 - 110.0	MS	06-MAR-10 01:00	100305-4
	Beryllium	48.3	ug/L	50	ug/L	96.6	90.0 - 110.0	MS	06-MAR-10 01:00	100305-4
	Nickel	53.8	ug/L	50	ug/L	107.5	90.0 - 110.0	MS	06-MAR-10 01:00	100305-4
	Thallium	51.3	ug/L	50	ug/L	102.5	90.0 - 110.0	MS	06-MAR-10 01:00	100305-4
	Uranium	54.7	ug/L	50	ug/L	109.4	90.0 - 110.0	MS	06-MAR-10 01:00	100305-4

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1565

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (% R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV05										
	Mercury	5.2	ug/L	5	ug/L	103.9	80.0 - 120.0	AV	22-FEB-10 10:47	022210S1-14
	Aluminum	4740	ug/L	5000	ug/L	94.9	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Antimony	503	ug/L	500	ug/L	100.6	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Barium	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Cadmium	487	ug/L	500	ug/L	97.5	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Calcium	4900	ug/L	5000	ug/L	97.9	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Chromium	486	ug/L	500	ug/L	97.3	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Cobalt	497	ug/L	500	ug/L	99.5	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Copper	480	ug/L	500	ug/L	96	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Iron	4940	ug/L	5000	ug/L	98.9	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Lead	490	ug/L	500	ug/L	98.1	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Magnesium	4900	ug/L	5000	ug/L	98.1	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Manganese	485	ug/L	500	ug/L	97.1	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Potassium	4870	ug/L	5000	ug/L	97.4	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Silver	485	ug/L	500	ug/L	97	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Sodium	9870	ug/L	10000	ug/L	98.7	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Vanadium	491	ug/L	500	ug/L	98.2	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Zinc	481	ug/L	500	ug/L	96.3	90.0 - 110.0	P	02-MAR-10 17:40	030210-1
	Beryllium	51.6	ug/L	50	ug/L	103.1	90.0 - 110.0	MS	03-MAR-10 23:43	100303-8
	Nickel	51.5	ug/L	50	ug/L	103	90.0 - 110.0	MS	03-MAR-10 23:43	100303-8
	Uranium	53.3	ug/L	50	ug/L	106.6	90.0 - 110.0	MS	05-MAR-10 08:17	100304-13
	Thallium	50	ug/L	50	ug/L	99.9	90.0 - 110.0	MS	05-MAR-10 14:07	100305-2
	Arsenic	52.7	ug/L	50	ug/L	105.4	90.0 - 110.0	MS	06-MAR-10 01:23	100305-4
	Beryllium	48.7	ug/L	50	ug/L	97.4	90.0 - 110.0	MS	06-MAR-10 01:23	100305-4
	Nickel	53.6	ug/L	50	ug/L	107.1	90.0 - 110.0	MS	06-MAR-10 01:23	100305-4
	Thallium	51.6	ug/L	50	ug/L	103.3	90.0 - 110.0	MS	06-MAR-10 01:23	100305-4
	Uranium	55.3	ug/L	50	ug/L	110.5	90.0 - 110.0	MS	06-MAR-10 01:23	100305-4
CCV06										
	Mercury	5.18	ug/L	5	ug/L	103.5	80.0 - 120.0	AV	22-FEB-10 11:07	022210S1-14
	Aluminum	4940	ug/L	5000	ug/L	98.8	90.0 - 110.0	P	02-MAR-10 18:53	030210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1565

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Antimony	511	ug/L	500	ug/L	102.1	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Barium	498	ug/L	500	ug/L	99.6	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Cadmium	500	ug/L	500	ug/L	100.1	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Calcium	4990	ug/L	5000	ug/L	99.8	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Chromium	498	ug/L	500	ug/L	99.6	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Cobalt	510	ug/L	500	ug/L	102	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Copper	490	ug/L	500	ug/L	98	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Iron	5010	ug/L	5000	ug/L	100.3	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Lead	500	ug/L	500	ug/L	100	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Magnesium	4980	ug/L	5000	ug/L	99.7	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Manganese	497	ug/L	500	ug/L	99.4	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Potassium	5060	ug/L	5000	ug/L	101.1	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Silver	495	ug/L	500	ug/L	99.1	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Sodium	10100	ug/L	10000	ug/L	100.9	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Vanadium	502	ug/L	500	ug/L	100.5	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Zinc	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	02-MAR-10 18:53	030210-1
	Uranium	52.5	ug/L	50	ug/L	104.9	90.0 - 110.0	MS	05-MAR-10 08:31	100304-13
	Thallium	49.6	ug/L	50	ug/L	99.2	90.0 - 110.0	MS	05-MAR-10 14:22	100305-2
CCV07										
	Mercury	5.16	ug/L	5	ug/L	103.2	80.0 - 120.0	AV	22-FEB-10 11:27	022210S1-14
	Aluminum	4920	ug/L	5000	ug/L	98.3	90.0 - 110.0	P	02-MAR-10 20:08	030210-1
	Antimony	513	ug/L	500	ug/L	102.7	90.0 - 110.0	P	02-MAR-10 20:08	030210-1
	Barium	496	ug/L	500	ug/L	99.2	90.0 - 110.0	P	02-MAR-10 20:08	030210-1
	Cadmium	496	ug/L	500	ug/L	99.2	90.0 - 110.0	P	02-MAR-10 20:08	030210-1
	Calcium	5050	ug/L	5000	ug/L	101	90.0 - 110.0	P	02-MAR-10 20:08	030210-1
	Chromium	496	ug/L	500	ug/L	99.3	90.0 - 110.0	P	02-MAR-10 20:08	030210-1
	Cobalt	506	ug/L	500	ug/L	101.1	90.0 - 110.0	P	02-MAR-10 20:08	030210-1
	Copper	488	ug/L	500	ug/L	97.7	90.0 - 110.0	P	02-MAR-10 20:08	030210-1
	Iron	5180	ug/L	5000	ug/L	103.7	90.0 - 110.0	P	02-MAR-10 20:08	030210-1
	Lead	501	ug/L	500	ug/L	100.1	90.0 - 110.0	P	02-MAR-10 20:08	030210-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1565

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Magnesium	5120	ug/L	5000	ug/L	102.5	90.0 – 110.0	P	02-MAR-10 20:08	030210-1
	Manganese	494	ug/L	500	ug/L	98.9	90.0 – 110.0	P	02-MAR-10 20:08	030210-1
	Potassium	5000	ug/L	5000	ug/L	99.9	90.0 – 110.0	P	02-MAR-10 20:08	030210-1
	Silver	493	ug/L	500	ug/L	98.7	90.0 – 110.0	P	02-MAR-10 20:08	030210-1
	Sodium	10600	ug/L	10000	ug/L	105.9	90.0 – 110.0	P	02-MAR-10 20:08	030210-1
	Vanadium	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	02-MAR-10 20:08	030210-1
	Zinc	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	02-MAR-10 20:08	030210-1
	Thallium	49.3	ug/L	50	ug/L	98.6	90.0 – 110.0	MS	05-MAR-10 14:44	100305-2
CCV08										
	Mercury	5.18	ug/L	5	ug/L	103.5	80.0 – 120.0	AV	22-FEB-10 11:48	022210S1-14
	Aluminum	4970	ug/L	5000	ug/L	99.4	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Antimony	516	ug/L	500	ug/L	103.2	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Barium	500	ug/L	500	ug/L	99.9	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Cadmium	503	ug/L	500	ug/L	100.5	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Calcium	5030	ug/L	5000	ug/L	100.5	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Chromium	501	ug/L	500	ug/L	100.3	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Cobalt	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Copper	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Iron	5150	ug/L	5000	ug/L	102.9	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Lead	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Magnesium	5150	ug/L	5000	ug/L	103.1	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Manganese	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Potassium	5070	ug/L	5000	ug/L	101.5	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Silver	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Sodium	10600	ug/L	10000	ug/L	105.6	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Vanadium	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Zinc	496	ug/L	500	ug/L	99.1	90.0 – 110.0	P	02-MAR-10 21:24	030210-1
	Thallium	51	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	05-MAR-10 15:07	100305-2
CCV09										
	Mercury	5.19	ug/L	5	ug/L	103.7	80.0 – 120.0	AV	22-FEB-10 12:08	022210S1-14

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1565

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5.OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (% R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Aluminum	4960	ug/L	5000	ug/L	99.2	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Antimony	513	ug/L	500	ug/L	102.6	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Barium	500	ug/L	500	ug/L	100.1	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Cadmium	502	ug/L	500	ug/L	100.5	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Calcium	4980	ug/L	5000	ug/L	99.5	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Chromium	503	ug/L	500	ug/L	100.6	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Cobalt	510	ug/L	500	ug/L	102	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Copper	493	ug/L	500	ug/L	98.7	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Iron	5050	ug/L	5000	ug/L	100.9	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Lead	505	ug/L	500	ug/L	100.9	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Magnesium	4970	ug/L	5000	ug/L	99.4	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Manganese	500	ug/L	500	ug/L	99.9	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Potassium	5000	ug/L	5000	ug/L	100	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Silver	499	ug/L	500	ug/L	99.8	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Sodium	10200	ug/L	10000	ug/L	101.8	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Vanadium	507	ug/L	500	ug/L	101.5	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
	Zinc	497	ug/L	500	ug/L	99.3	90.0 - 110.0	P	02-MAR-10 22:39	030210-1
CCV10										
	Mercury	5.16	ug/L	5	ug/L	103.2	80.0 - 120.0	AV	22-FEB-10 12:28	022210S1-14
CCV11										
	Mercury	5.23	ug/L	5	ug/L	104.6	80.0 - 120.0	AV	22-FEB-10 12:49	022210S1-14

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1565

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source: Solutions Plus

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Mercury	.151	ug/L	.2	ug/L	75.5	70.0 - 130.0	AV	22-FEB-10 09:25	022210S1-14
	Nickel	2.23	ug/L	2	ug/L	111.7	70.0 - 130.0	MS	03-MAR-10 20:40	100303-8
	Beryllium	.543	ug/L	.5	ug/L	108.6	70.0 - 130.0	MS	03-MAR-10 20:40	100303-8
	Arsenic	5.99	ug/L	5	ug/L	119.8	70.0 - 130.0	MS	04-MAR-10 23:58	100304-9
	Selenium	6.06	ug/L	5	ug/L	121.3	70.0 - 130.0	MS	04-MAR-10 23:58	100304-9
	Uranium	.23	ug/L	.2	ug/L	115	70.0 - 130.0	MS	05-MAR-10 07:15	100304-13
	Thallium	1.1	ug/L	1	ug/L	109.6	70.0 - 130.0	MS	05-MAR-10 12:38	100305-2
	Uranium	.248	ug/L	.2	ug/L	124	70.0 - 130.0	MS	05-MAR-10 23:13	100305-4
	Nickel	2.24	ug/L	2	ug/L	111.8	70.0 - 130.0	MS	05-MAR-10 23:13	100305-4
	Arsenic	5.95	ug/L	5	ug/L	119	70.0 - 130.0	MS	05-MAR-10 23:13	100305-4
	Thallium	1.2	ug/L	1	ug/L	119.8	70.0 - 130.0	MS	05-MAR-10 23:13	100305-4
	Beryllium	.58	ug/L	.5	ug/L	116	70.0 - 130.0	MS	05-MAR-10 23:13	100305-4
	Selenium	6.37	ug/L	5	ug/L	127.4	70.0 - 130.0	MS	06-MAR-10 08:53	100305-7
PQL01										
	Potassium	146	ug/L	150	ug/L	97.3	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Silver	4.49	ug/L	5	ug/L	89.7	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Sodium	299	ug/L	300	ug/L	99.8	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Antimony	9.36	ug/L	10	ug/L	93.6	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Barium	5.12	ug/L	5	ug/L	102.5	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Manganese	10.7	ug/L	10	ug/L	106.9	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Magnesium	218	ug/L	300	ug/L	72.8	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Lead	11	ug/L	10	ug/L	110.3	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Iron	93.2	ug/L	100	ug/L	93.2	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Aluminum	212	ug/L	200	ug/L	106.1	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Cadmium	5.05	ug/L	5	ug/L	101	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Chromium	4.89	ug/L	5	ug/L	97.8	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Cobalt	5.16	ug/L	5	ug/L	103.2	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Copper	10.9	ug/L	10	ug/L	108.8	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Vanadium	4.72	ug/L	5	ug/L	94.5	70.0 - 130.0	P	02-MAR-10 13:40	030210-1
	Zinc	9.17	ug/L	10	ug/L	91.7	70.0 - 130.0	P	02-MAR-10 13:40	030210-1

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1565

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source:

ICP CRDL Standard Source

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Calcium	221	ug/L	200	ug/L	110.5	70.0 – 130.0	P	02-MAR-10 13:40	030210-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
ICB01	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	22-FEB-10 09:23	022210S1-14
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	02-MAR-10 13:33	030210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 13:33	030210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 13:33	030210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 13:33	030210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 13:33	030210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 13:33	030210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 13:33	030210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	02-MAR-10 13:33	030210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 13:33	030210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	02-MAR-10 13:33	030210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	02-MAR-10 13:33	030210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	02-MAR-10 13:33	030210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	02-MAR-10 13:33	030210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 13:33	030210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	02-MAR-10 13:33	030210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 13:33	030210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 13:33	030210-1
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	03-MAR-10 20:33	100303-8
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	03-MAR-10 20:33	100303-8
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	04-MAR-10 23:54	100304-9
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	04-MAR-10 23:54	100304-9
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	05-MAR-10 07:14	100304-13
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	05-MAR-10 12:36	100305-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	05-MAR-10 23:08	100305-4
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	05-MAR-10 23:08	100305-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	05-MAR-10 23:08	100305-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	05-MAR-10 23:08	100305-4
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	05-MAR-10 23:08	100305-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	06-MAR-10 08:51	100305-7

Metals

-3a-

Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565

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>
CCB01	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	22-FEB-10 09:28	022210S1-14
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	02-MAR-10 14:18	030210-1
	Antimony	5.89	+/-10	J	3.3	10.0	SOL	P	02-MAR-10 14:18	030210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 14:18	030210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 14:18	030210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 14:18	030210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 14:18	030210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 14:18	030210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	02-MAR-10 14:18	030210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 14:18	030210-1
	Lead	6.1	+/-10	J	2.5	10.0	SOL	P	02-MAR-10 14:18	030210-1
	Magnesium	-89.44	+/-300	J	85.0	300	SOL	P	02-MAR-10 14:18	030210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	02-MAR-10 14:18	030210-1
	Potassium	139.97	+/-250	J	64.0	250	SOL	P	02-MAR-10 14:18	030210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 14:18	030210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	02-MAR-10 14:18	030210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 14:18	030210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 14:18	030210-1
	Beryllium	0.1	+/- .5	U	0.1	0.5	SOL	MS	03-MAR-10 21:04	100303-8
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	03-MAR-10 21:04	100303-8
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	05-MAR-10 00:13	100304-9
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	05-MAR-10 00:13	100304-9
	Uranium	0.066	+/- .2	U	0.066	0.2	SOL	MS	05-MAR-10 07:22	100304-13
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	05-MAR-10 12:47	100305-2
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	05-MAR-10 23:30	100305-4
	Beryllium	0.1	+/- .5	U	0.1	0.5	SOL	MS	05-MAR-10 23:30	100305-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	05-MAR-10 23:30	100305-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	05-MAR-10 23:30	100305-4
	Uranium	0.066	+/- .2	U	0.066	0.2	SOL	MS	05-MAR-10 23:30	100305-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	06-MAR-10 09:01	100305-7

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565

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>
CCB02	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	22-FEB-10 09:48	022210S1-14
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	02-MAR-10 14:41	030210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 14:41	030210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 14:41	030210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 14:41	030210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 14:41	030210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 14:41	030210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 14:41	030210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	02-MAR-10 14:41	030210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 14:41	030210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	02-MAR-10 14:41	030210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	02-MAR-10 14:41	030210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	02-MAR-10 14:41	030210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	02-MAR-10 14:41	030210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 14:41	030210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	02-MAR-10 14:41	030210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 14:41	030210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 14:41	030210-1
	Beryllium	0.1	+/- .5	U	0.1	0.5	SOL	MS	03-MAR-10 21:22	100303-8
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	03-MAR-10 21:22	100303-8
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	05-MAR-10 00:38	100304-9
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	05-MAR-10 00:38	100304-9
	Uranium	0.066	+/- .2	U	0.066	0.2	SOL	MS	05-MAR-10 07:39	100304-13
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	05-MAR-10 13:16	100305-2
	Arsenic	1.22	+/-5	J	1.0	5.0	SOL	MS	05-MAR-10 23:44	100305-4
	Beryllium	0.1	+/- .5	U	0.1	0.5	SOL	MS	05-MAR-10 23:44	100305-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	05-MAR-10 23:44	100305-4
	Thallium	0.44	+/-1	J	0.3	1.0	SOL	MS	05-MAR-10 23:44	100305-4
	Uranium	0.066	+/- .2	U	0.066	0.2	SOL	MS	05-MAR-10 23:44	100305-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	06-MAR-10 09:20	100305-7

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565

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>
CCB03	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	22-FEB-10 10:09	022210S1-14
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	02-MAR-10 15:50	030210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 15:50	030210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 15:50	030210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 15:50	030210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 15:50	030210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 15:50	030210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 15:50	030210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	02-MAR-10 15:50	030210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 15:50	030210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	02-MAR-10 15:50	030210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	02-MAR-10 15:50	030210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	02-MAR-10 15:50	030210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	02-MAR-10 15:50	030210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 15:50	030210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	02-MAR-10 15:50	030210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 15:50	030210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 15:50	030210-1
	Beryllium	0.1	+/- .5	U	0.1	0.5	SOL	MS	03-MAR-10 22:05	100303-8
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	03-MAR-10 22:05	100303-8
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	05-MAR-10 01:07	100304-9
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	05-MAR-10 01:07	100304-9
	Uranium	0.066	+/- .2	U	0.066	0.2	SOL	MS	05-MAR-10 07:54	100304-13
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	05-MAR-10 13:36	100305-2
	Arsenic	1.28	+/-5	J	1.0	5.0	SOL	MS	06-MAR-10 00:24	100305-4
	Beryllium	0.1	+/- .5	U	0.1	0.5	SOL	MS	06-MAR-10 00:24	100305-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	06-MAR-10 00:24	100305-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	06-MAR-10 00:24	100305-4
	Uranium	0.066	+/- .2	U	0.066	0.2	SOL	MS	06-MAR-10 00:24	100305-4
CCB04	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	22-FEB-10 10:29	022210S1-14

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565

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>
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	02-MAR-10 16:53	030210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 16:53	030210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 16:53	030210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 16:53	030210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 16:53	030210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 16:53	030210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 16:53	030210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	02-MAR-10 16:53	030210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 16:53	030210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	02-MAR-10 16:53	030210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	02-MAR-10 16:53	030210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	02-MAR-10 16:53	030210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	02-MAR-10 16:53	030210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 16:53	030210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	02-MAR-10 16:53	030210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 16:53	030210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 16:53	030210-1
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	03-MAR-10 23:00	100303-8
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	03-MAR-10 23:00	100303-8
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	05-MAR-10 01:36	100304-9
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	05-MAR-10 01:36	100304-9
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	05-MAR-10 08:06	100304-13
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	05-MAR-10 13:44	100305-2
	Arsenic	1.31	+/-5	J	1.0	5.0	SOL	MS	06-MAR-10 01:05	100305-4
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	06-MAR-10 01:05	100305-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	06-MAR-10 01:05	100305-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	06-MAR-10 01:05	100305-4
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	06-MAR-10 01:05	100305-4
CCB05	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	22-FEB-10 10:49	022210S1-14
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	02-MAR-10 17:47	030210-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565

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>
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 17:47	030210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 17:47	030210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 17:47	030210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 17:47	030210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 17:47	030210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 17:47	030210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	02-MAR-10 17:47	030210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 17:47	030210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	02-MAR-10 17:47	030210-1
	Magnesium	-89.08	+/-300	J	85.0	300	SOL	P	02-MAR-10 17:47	030210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	02-MAR-10 17:47	030210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	02-MAR-10 17:47	030210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 17:47	030210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	02-MAR-10 17:47	030210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 17:47	030210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 17:47	030210-1
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	03-MAR-10 23:49	100303-8
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	03-MAR-10 23:49	100303-8
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	05-MAR-10 08:19	100304-13
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	05-MAR-10 14:09	100305-2
	Arsenic	1.64	+/-5	J	1.0	5.0	SOL	MS	06-MAR-10 01:27	100305-4
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	06-MAR-10 01:27	100305-4
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	06-MAR-10 01:27	100305-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	06-MAR-10 01:27	100305-4
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	06-MAR-10 01:27	100305-4
CCB06	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	22-FEB-10 11:09	022210S1-14
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	02-MAR-10 19:00	030210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 19:00	030210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 19:00	030210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 19:00	030210-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 19:00	030210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 19:00	030210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 19:00	030210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	02-MAR-10 19:00	030210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 19:00	030210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	02-MAR-10 19:00	030210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	02-MAR-10 19:00	030210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	02-MAR-10 19:00	030210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	02-MAR-10 19:00	030210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 19:00	030210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	02-MAR-10 19:00	030210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 19:00	030210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 19:00	030210-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	05-MAR-10 08:33	100304-13
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	05-MAR-10 14:24	100305-2
CCB07	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	22-FEB-10 11:29	022210S1-14
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	02-MAR-10 20:15	030210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 20:15	030210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 20:15	030210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 20:15	030210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 20:15	030210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 20:15	030210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 20:15	030210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	02-MAR-10 20:15	030210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 20:15	030210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	02-MAR-10 20:15	030210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	02-MAR-10 20:15	030210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	02-MAR-10 20:15	030210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	02-MAR-10 20:15	030210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 20:15	030210-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565

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>
CCB08	Sodium	70.0	+/-250	U	70.0	250	SOL	P	02-MAR-10 20:15	030210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 20:15	030210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 20:15	030210-1
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	05-MAR-10 14:47	100305-2
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	22-FEB-10 11:49	022210S1-14
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	02-MAR-10 21:31	030210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 21:31	030210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 21:31	030210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 21:31	030210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 21:31	030210-1
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 21:31	030210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 21:31	030210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	02-MAR-10 21:31	030210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 21:31	030210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	02-MAR-10 21:31	030210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	02-MAR-10 21:31	030210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	02-MAR-10 21:31	030210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	02-MAR-10 21:31	030210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 21:31	030210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	02-MAR-10 21:31	030210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 21:31	030210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 21:31	030210-1
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	05-MAR-10 15:09	100305-2
CCB09	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	22-FEB-10 12:10	022210S1-14
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	02-MAR-10 22:46	030210-1
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 22:46	030210-1
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 22:46	030210-1
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 22:46	030210-1
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 22:46	030210-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 22:46	030210-1
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	02-MAR-10 22:46	030210-1
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	02-MAR-10 22:46	030210-1
	Iron	80.0	+/-250	U	80.0	250	SOL	P	02-MAR-10 22:46	030210-1
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	02-MAR-10 22:46	030210-1
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	02-MAR-10 22:46	030210-1
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	02-MAR-10 22:46	030210-1
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	02-MAR-10 22:46	030210-1
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 22:46	030210-1
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	02-MAR-10 22:46	030210-1
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	02-MAR-10 22:46	030210-1
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	02-MAR-10 22:46	030210-1
CCB10										
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	22-FEB-10 12:30	022210S1-14
CCB11										
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	22-FEB-10 12:50	022210S1-14

METALS
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PREPARATION BLANK SUMMARY

SDG NO. 10-1565

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>
1202036249								
	Antimony	330	ug/Kg	+/-1000	U	P	330	1000
	Barium	100	ug/Kg	+/-500	U	P	100	500
	Calcium	8000	ug/Kg	+/-25000	U	P	8000	25000
	Chromium	150	ug/Kg	+/-500	U	P	150	500
	Cadmium	100	ug/Kg	+/-500	U	P	100	500
	Cobalt	150	ug/Kg	+/-500	U	P	150	500
	Iron	8000	ug/Kg	+/-25000	U	P	8000	25000
	Magnesium	8500	ug/Kg	+/-30000	U	P	8500	30000
	Manganese	200	ug/Kg	+/-1000	U	P	200	1000
	Zinc	330	ug/Kg	+/-1000	U	P	330	1000
	Vanadium	100	ug/Kg	+/-500	U	P	100	500
	Sodium	7000	ug/Kg	+/-25000	U	P	7000	25000
	Silver	100	ug/Kg	+/-500	U	P	100	500
	Potassium	6400	ug/Kg	+/-25000	U	P	6400	25000
	Aluminum	6800	ug/Kg	+/-20000	U	P	6800	20000
	Lead	250	ug/Kg	+/-1000	U	P	250	1000
	Copper	300	ug/Kg	+/-1000	U	P	300	1000
1202036266								
	Arsenic	0.197	mg/kg	+/-0.984	U	MS	0.197	0.984
	Nickel	0.0984	mg/kg	+/-0.394	U	MS	0.0984	0.394
	Selenium	0.492	mg/kg	+/-0.984	U	MS	0.492	0.984
	Beryllium	0.0197	mg/kg	+/-0.0984	U	MS	0.0197	0.0984
	Thallium	0.0591	mg/kg	+/-0.197	U	MS	0.0591	0.197
	Uranium	0.013	mg/kg	+/-0.0394	U	MS	0.013	0.0394
1202039372								
	Mercury	3.78	ug/kg	+/-11.1	U	AV	3.78	11.1
1202060995								
	Nickel	0.0921	mg/kg	+/-0.368	U	MS	0.0921	0.368
	Selenium	0.46	mg/kg	+/-0.921	U	MS	0.46	0.921
	Arsenic	0.184	mg/kg	+/-0.921	U	MS	0.184	0.921
	Beryllium	0.0184	mg/kg	+/-0.0921	U	MS	0.0184	0.0921
	Thallium	0.0553	mg/kg	+/-0.184	U	MS	0.0553	0.184
	Uranium	0.0122	mg/kg	+/-0.0368	U	MS	0.0122	0.0368

METALS

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Interference Check Sample

SDG No: 10-1565

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	522000	ug/L	500000	ug/L	104	80.0 - 120.0	02-MAR-10 13:46	030210-1
	Antimony	-2.39	ug/L					02-MAR-10 13:46	030210-1
	Barium	0.515	ug/L					02-MAR-10 13:46	030210-1
	Cadmium	1.31	ug/L					02-MAR-10 13:46	030210-1
	Calcium	482000	ug/L	500000	ug/L	96.5	80.0 - 120.0	02-MAR-10 13:46	030210-1
	Chromium	1.02	ug/L					02-MAR-10 13:46	030210-1
	Cobalt	-1.46	ug/L					02-MAR-10 13:46	030210-1
	Copper	5.04	ug/L					02-MAR-10 13:46	030210-1
	Iron	190000	ug/L	200000	ug/L	94.9	80.0 - 120.0	02-MAR-10 13:46	030210-1
	Lead	12.6	ug/L					02-MAR-10 13:46	030210-1
	Magnesium	499000	ug/L	500000	ug/L	99.9	80.0 - 120.0	02-MAR-10 13:46	030210-1
	Manganese	-1.92	ug/L					02-MAR-10 13:46	030210-1
	Potassium	-141.0	ug/L					02-MAR-10 13:46	030210-1
	Silver	-7.11	ug/L					02-MAR-10 13:46	030210-1
	Sodium	56.5	ug/L					02-MAR-10 13:46	030210-1
	Vanadium	-0.248	ug/L					02-MAR-10 13:46	030210-1
	Zinc	-2.51	ug/L					02-MAR-10 13:46	030210-1
ICSAB01									
	Aluminum	528000	ug/L	500000	ug/L	106	80.0 - 120.0	02-MAR-10 13:53	030210-1
	Antimony	570	ug/L	500	ug/L	114	80.0 - 120.0	02-MAR-10 13:53	030210-1
	Barium	502	ug/L	500	ug/L	100	80.0 - 120.0	02-MAR-10 13:53	030210-1
	Cadmium	458	ug/L	500	ug/L	91.5	80.0 - 120.0	02-MAR-10 13:53	030210-1
	Calcium	485000	ug/L	500000	ug/L	96.9	80.0 - 120.0	02-MAR-10 13:53	030210-1
	Chromium	478	ug/L	500	ug/L	95.7	80.0 - 120.0	02-MAR-10 13:53	030210-1
	Cobalt	473	ug/L	500	ug/L	94.6	80.0 - 120.0	02-MAR-10 13:53	030210-1
	Copper	586	ug/L	500	ug/L	117	80.0 - 120.0	02-MAR-10 13:53	030210-1
	Iron	188000	ug/L	200000	ug/L	94	80.0 - 120.0	02-MAR-10 13:53	030210-1
	Lead	506	ug/L	500	ug/L	101	80.0 - 120.0	02-MAR-10 13:53	030210-1
	Magnesium	499000	ug/L	500000	ug/L	99.8	80.0 - 120.0	02-MAR-10 13:53	030210-1

METALS
-4-
Interference Check Sample

SDG No: 10-1565

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	500	ug/L	500	ug/L	100	80.0 – 120.0	02-MAR-10 13:53	030210-1
	Potassium	5470	ug/L	5000	ug/L	109	80.0 – 120.0	02-MAR-10 13:53	030210-1
	Silver	266	ug/L	250	ug/L	106	80.0 – 120.0	02-MAR-10 13:53	030210-1
	Sodium	5520	ug/L	5000	ug/L	110	80.0 – 120.0	02-MAR-10 13:53	030210-1
	Vanadium	502	ug/L	500	ug/L	100	80.0 – 120.0	02-MAR-10 13:53	030210-1
	Zinc	493	ug/L	500	ug/L	98.6	80.0 – 120.0	02-MAR-10 13:53	030210-1

METALS
-4-
Interference Check Sample

SDG No: 10-1565

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	-0.012	ug/L					05-MAR-10 07:17	100304-13
ICSAB01	Uranium	22.9	ug/L	20	ug/L	115	80.0 - 120.0	05-MAR-10 07:19	100304-13

METALS
-4-
Interference Check Sample

SDG No: 10-1565

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	-0.021	ug/L					05-MAR-10 12:41	100305-2
ICSAB01	Thallium	19.3	ug/L	20	ug/L	96.7	80.0 - 120.0	05-MAR-10 12:43	100305-2

METALS
-4-
Interference Check Sample

SDG No: 10-1565

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Arsenic	0.857	ug/L					05-MAR-10 23:17	100305-4
	Beryllium	0.11	ug/L					05-MAR-10 23:17	100305-4
	Nickel	2.8	ug/L					05-MAR-10 23:17	100305-4
	Thallium	0.056	ug/L					05-MAR-10 23:17	100305-4
	Uranium	-0.007	ug/L					05-MAR-10 23:17	100305-4
ICSAB01									
	Arsenic	21.6	ug/L	20	ug/L	108	80.0 - 120.0	05-MAR-10 23:22	100305-4
	Beryllium	16.0	ug/L	20	ug/L	80	80.0 - 120.0	05-MAR-10 23:22	100305-4
	Nickel	23.5	ug/L	23.31	ug/L	101	80.0 - 120.0	05-MAR-10 23:22	100305-4
	Thallium	19.3	ug/L	20	ug/L	96.6	80.0 - 120.0	05-MAR-10 23:22	100305-4
	Uranium	22.2	ug/L	20	ug/L	111	80.0 - 120.0	05-MAR-10 23:22	100305-4

METALS
--4--
Interference Check Sample

SDG No: 10-1565

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	Selenium	0.089	ug/L					06-MAR-10 08:55	100305-7
ICSAB01	Selenium	20.7	ug/L	20	ug/L	104	80.0 - 120.0	06-MAR-10 08:57	100305-7

METALS
-4-
Interference Check Sample

SDG No: 10-1565

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	0.092	ug/L					03-MAR-10 20:46	100303-8
	Nickel	4.97	ug/L					03-MAR-10 20:46	100303-8
ICSAB01	Beryllium	18.5	ug/L	20	ug/L	92.3	80.0 - 120.0	03-MAR-10 20:52	100303-8
	Nickel	21.7	ug/L	23.31	ug/L	93.2	80.0 - 120.0	03-MAR-10 20:52	100303-8

METALS
-4-
Interference Check Sample

SDG No: 10-1565

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	Arsenic	0.293	ug/L					05-MAR-10 00:02	100304-9
	Selenium	-0.848	ug/L					05-MAR-10 00:02	100304-9
ICSAB01	Arsenic	21.3	ug/L	20	ug/L	106	80.0 - 120.0	05-MAR-10 00:05	100304-9
	Selenium	20.2	ug/L	20	ug/L	101	80.0 - 120.0	05-MAR-10 00:05	100304-9

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1565

Client ID RE15-10-7332S

Contract: LANL01004

Level: Low

Matrix: SOIL

% Solids: 93.5

Sample ID: 246322001

Spike ID: 1202036252

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/Kg	75-125	49100		335	U	50900	96.4		P
Barium	ug/Kg	75-125	116000		127000		50900	-21.7	N	P
Cadmium	ug/Kg	75-125	47800		102	U	50900	93.7		P
Calcium	ug/Kg		4660000		2370000		509000	450	N/A	P
Chromium	ug/Kg	75-125	65400		14000		50900	101		P
Cobalt	ug/Kg	75-125	51000		2140		50900	96		P
Copper	ug/Kg	75-125	89500		34600		50900	108		P
Iron	ug/Kg		7840000		6930000		509000	179	N/A	P
Lead	ug/Kg	75-125	78900		32700		50900	90.7		P
Magnesium	ug/Kg	75-125	1730000		1130000		509000	118		P
Manganese	ug/Kg	75-125	196000		168000		50900	55.3	N	P
Potassium	ug/Kg	75-125	1060000		535000		509000	103		P
Silver	ug/Kg	75-125	50300		142	J	50900	98.5		P
Sodium	ug/Kg	75-125	1150000		134000		509000	199	N	P
Vanadium	ug/Kg	75-125	62100		20200		50900	82.2		P
Zinc	ug/Kg	75-125	76000		27200		50900	95.8		P
Aluminum	ug/Kg		6410000		2220000		509000	823	N/A	P

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1565 Client ID RE15-10-7332SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 93.5

Sample ID: 246322001 Spike ID: 1202036253

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg		5720000		2220000		535000	656	N/A	P
Antimony	ug/Kg	75-125	50500		335	U	53500	94.5		P
Barium	ug/Kg	75-125	121000		127000		53500	-12.4	N	P
Cadmium	ug/Kg	75-125	49300		102	U	53500	92.2		P
Calcium	ug/Kg		5550000		2370000		535000	596	N/A	P
Chromium	ug/Kg	75-125	83700		14000		53500	130	N	P
Cobalt	ug/Kg	75-125	56500		2140		53500	102		P
Copper	ug/Kg	75-125	126000		34600		53500	171	N	P
Iron	ug/Kg		12000000		6930000		535000	952	N/A	P
Lead	ug/Kg	75-125	83900		32700		53500	95.7		P
Magnesium	ug/Kg	75-125	4620000		1130000		535000	653	N	P
Manganese	ug/Kg	75-125	277000		168000		53500	204	N	P
Potassium	ug/Kg	75-125	1100000		535000		535000	105		P
Silver	ug/Kg	75-125	52200		142	J	53500	97.3		P
Sodium	ug/Kg	75-125	1230000		134000		535000	205	N	P
Vanadium	ug/Kg	75-125	74700		20200		53500	102		P
Zinc	ug/Kg	75-125	83200		27200		53500	105		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1565 Client ID RE15-10-7332S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 93.5

Sample ID: 246322001 Spike ID: 1202036269

<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>
Selenium	mg/kg	75-125	2.41		0.52	U	2.14	95.3		MS
Thallium	mg/kg	75-125	10.8		0.0624	U	10.7	101		MS
Uranium	mg/kg	75-125	7.34		1.27		5.35	114		MS
Nickel	mg/kg	75-125	8		3.1		5.35	91.7		MS
Arsenic	mg/kg	75-125	9.44		1.22		8.55	96		MS
Beryllium	mg/kg	75-125	5.03		0.12		5.35	91.8		MS

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1565 Client ID RE15-10-7332SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 93.5

Sample ID: 246322001 Spike ID: 1202036270

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	9.58		1.22		8.35	100		MS
Beryllium	mg/kg	75-125	4.53		0.12		5.22	84.5		MS
Nickel	mg/kg	75-125	11		3.1		5.22	151	N	MS
Selenium	mg/kg	75-125	2.25		0.52	U	2.09	90.1		MS
Thallium	mg/kg	75-125	10.4		0.0624	U	10.4	99.6		MS
Uranium	mg/kg	75-125	7.32		1.27		5.22	116		MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1565 **Client ID** RE46-10-11592S**Contract:** LANL01004 **Level:** Low**Matrix:** SOIL **% Solids:** 95.8**Sample ID:** 246338001 **Spike ID:** 1202039375

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	123		3.76	U	116	106		AV

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1565 Client ID RE46-10-11592SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 95.8

Sample ID: 246338001 Spike ID: 1202039377

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	123		3.76	U	117	106		AV

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1565 Client ID RE15-10-7337S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 94.4

Sample ID: 246322004 Spike ID: 1202060998

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Arsenic	mg/kg	75-125	9.53		1.55		8.33	95.9		MS
Beryllium	mg/kg	75-125	4.7		0.189		5.21	86.6		MS
Nickel	mg/kg	75-125	12.8		4.1		5.21	167	N	MS
Selenium	mg/kg	75-125	1.92		0.516	U	2.08	74.1	N	MS
Thallium	mg/kg	75-125	9.43		0.0899	J	10.4	89.7		MS
Uranium	mg/kg	75-125	7.55		1.08		5.21	124		MS

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1565 Client ID RE15-10-7337SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 94.4

Sample ID: 246322004 Spike ID: 1202060999

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	8.52		1.55		7.75	89.9		MS
Beryllium	mg/kg	75-125	4.57		0.189		4.84	90.5		MS
Nickel	mg/kg	75-125	8.62		4.1		4.84	93.3		MS
Selenium	mg/kg	75-125	1.75		0.516	U	1.94	71	N	MS
Thallium	mg/kg	75-125	9.31		0.0899	J	9.69	95.2		MS
Uranium	mg/kg	75-125	6.39		1.08		4.84	110		MS

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-1565

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-7332D

Sample ID: 246322001

Duplicate ID: 1202036250

Percent Solids for Dup: 93.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20%	2220000		2500000		12		P
Antimony	ug/Kg		335 U		353 U				P
Barium	ug/Kg	+/-20%	127000		53800		81.2	*	P
Cadmium	ug/Kg		102 U		107 U				P
Calcium	ug/Kg	+/-20%	2370000		5930000		85.8	*	P
Chromium	ug/Kg	+/-20%	14000		15300		8.45		P
Cobalt	ug/Kg	+/-535	2140		1910		11.3		P
Copper	ug/Kg	+/-20%	34600		77500		76.7	*	P
Iron	ug/Kg	+/-20%	6930000		6430000		7.43		P
Lead	ug/Kg	+/-20%	32700		35200		7.28		P
Magnesium	ug/Kg	+/-20%	1130000		1270000		11.5		P
Manganese	ug/Kg	+/-20%	168000		125000		29	*	P
Potassium	ug/Kg	+/-20%	535000		548000		2.43		P
Silver	ug/Kg	+/-535	142 J		240 J		51		P
Sodium	ug/Kg	+/-20%	134000		156000		15.3		P
Vanadium	ug/Kg	+/-20%	20200		11700		53.6	*	P
Zinc	ug/Kg	+/-20%	27200		28800		5.73		P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1565

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-7332SD

Sample ID: 1202036252

Duplicate ID: 1202036253

Percent Solids for Dup: 93.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20	6410000		5720000		11.3		P
Antimony	ug/Kg	+/-20	49100		50500		2.95		P
Barium	ug/Kg	+/-20	116000		121000		3.72		P
Cadmium	ug/Kg	+/-20	47800		49300		3.17		P
Calcium	ug/Kg	+/-20	4660000		5550000		17.6		P
Chromium	ug/Kg	+/-20	65400		83700		24.6	*	P
Cobalt	ug/Kg	+/-20	51000		56500		10.3		P
Copper	ug/Kg	+/-20	89500		126000		33.7	*	P
Iron	ug/Kg	+/-20	7840000		12000000		42.1	*	P
Lead	ug/Kg	+/-20	78900		83900		6.16		P
Magnesium	ug/Kg	+/-20	1730000		4620000		91.1	*	P
Manganese	ug/Kg	+/-20	196000		277000		34.2	*	P
Potassium	ug/Kg	+/-20	1060000		1100000		3.48		P
Silver	ug/Kg	+/-20	50300		52200		3.66		P
Sodium	ug/Kg	+/-20	1150000		1230000		6.66		P
Vanadium	ug/Kg	+/-20	62100		74700		18.5		P
Zinc	ug/Kg	+/-20	76000		83200		9.05		P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1565

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-7332D

Sample ID: 246322001

Duplicate ID: 1202036267

Percent Solids for Dup: 93.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.07	1.22		1.09		12.1		MS
Beryllium	mg/kg	+/- .107	0.12		0.156		26		MS
Nickel	mg/kg	+/-20%	3.1		3.25		4.63		MS
Selenium	mg/kg		0.52 U		0.535 U				MS
Thallium	mg/kg		0.0624 U		0.0641 U				MS
Uranium	mg/kg	+/-20%	1.27		1.25		1.52		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1565

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-7332SD

Sample ID: 1202036269

Duplicate ID: 1202036270

Percent Solids for Dup: 93.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	9.44		9.58		1.53		MS
Beryllium	mg/kg	+/-20	5.03		4.53		10.3		MS
Nickel	mg/kg	+/-20	8		11		31.4	*	MS
Selenium	mg/kg	+/-20	2.41		2.25		6.74		MS
Thallium	mg/kg	+/-20	10.8		10.4		3.53		MS
Uranium	mg/kg	+/-20	7.34		7.32		.33		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1565

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE46-10-11592D

Sample ID: 246338001

Duplicate ID: 1202039374

Percent Solids for Dup: 95.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg		3.76 U		4.08 U				AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1565

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE46-10-11592SD

Sample ID: 1202039375

Duplicate ID: 1202039377

Percent Solids for Dup: 95.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20	123		123		.322		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1565

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-7337D

Sample ID: 246322004

Duplicate ID: 1202060996

Percent Solids for Dup: 94.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.02	1.55		1.16		28.7		MS
Beryllium	mg/kg	+/-1.02	0.189		0.198		4.43		MS
Nickel	mg/kg	+/-20%	4.1		5.39		27.1	*	MS
Selenium	mg/kg		0.516 U		0.512 U				MS
Thallium	mg/kg		0.0899 J		0.0615 U		200		MS
Uranium	mg/kg	+/-20%	1.08		1.15		7.01		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1565

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE15-10-7337SD

Sample ID: 1202060998

Duplicate ID: 1202060999

Percent Solids for Dup: 94.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	9.53		8.52		11.2		MS
Beryllium	mg/kg	+/-20	4.7		4.57		2.73		MS
Nickel	mg/kg	+/-20	12.8		8.62		38.9	*	MS
Selenium	mg/kg	+/-20	1.92		1.75		9.1		MS
Thallium	mg/kg	+/-20	9.43		9.31		1.24		MS
Uranium	mg/kg	+/-20	7.55		6.39		16.7		MS

METALS

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Laboratory Control Sample Summary

SDG NO. 10-1565

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>
1202036254								
	Antimony	ug/Kg	169000	126000		74.7	71-130	P
	Barium	ug/Kg	193000	189000		97.8	80-120	P
	Cadmium	ug/Kg	59300	58800		99.2	81-120	P
	Calcium	ug/Kg	9640000	9440000		97.9	83-117	P
	Chromium	ug/Kg	230000	233000		101	80-120	P
	Cobalt	ug/Kg	89100	93400		105	81-120	P
	Copper	ug/Kg	170000	189000		112	81-118	P
	Iron	ug/Kg	17600000	18000000		102	51-149	P
	Lead	ug/Kg	84000	81700		97.3	79-121	P
	Magnesium	ug/Kg	3910000	3750000		95.9	79-122	P
	Manganese	ug/Kg	545000	533000		97.9	81-119	P
	Potassium	ug/Kg	4200000	4110000		97.9	74-127	P
	Silver	ug/Kg	29400	30000		102	66-134	P
	Sodium	ug/Kg	996000	1040000		105	74-127	P
	Vanadium	ug/Kg	112000	120000		106	79-121	P
	Zinc	ug/Kg	580000	578000		99.7	80-121	P
	Aluminum	ug/Kg	10300000	9260000		90.3	56-144	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1565

Contract: LANL01004

Aqueous LCS Source:

Solid LCS Source: O2SI

<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>
1202036271								
	Arsenic	mg/kg	104	106		102	78-123	MS
	Beryllium	mg/kg	77.6	74.4		95.9	84-116	MS
	Nickel	mg/kg	134	129		96.6	78-123	MS
	Selenium	mg/kg	286	295		103	77-123	MS
	Thallium	mg/kg	121	121		99.8	78-122	MS
	Uranium	mg/kg	2.13	2.29		108	73-127	MS

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1565

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>
1202039373	Mercury	ug/kg	5150	5210		101	71.6-128.3	AV

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1565

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>
1202061000								
	Arsenic	mg/kg	104	110		105	78-123	MS
	Beryllium	mg/kg	77.6	77.7		100	84-116	MS
	Nickel	mg/kg	134	145		108	78-123	MS
	Selenium	mg/kg	286	304		106	77-123	MS
	Thallium	mg/kg	121	127		105	78-122	MS
	Uranium	mg/kg	2.13	1.87		87.9	73-127	MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1565 Client ID RE15-10-7332L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 246322001 Serial Dilution ID: 1202036251

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	21800		21300		2.29		10	P
Antimony	3.3	U	16.5	U				P
Barium	1250		1230		2		10	P
Cadmium	J	U	5	U				P
Calcium	23300		22600		3.22		10	P
Chromium	138		131		5.43		10	P
Cobalt	21.1		22.3	J	5.45			P
Copper	340		317		6.91		10	P
Iron	68200		66000		3.23		10	P
Lead	322		318		1.4		10	P
Magnesium	11100		10500		5.86		10	P
Manganese	1650		1640		.606		10	P
Potassium	5270		5050		4.17		10	P
Silver	1.4	J	5	U	100			P
Sodium	1320		1130	J	14.8			P
Vanadium	199		194		2.76		10	P
Zinc	268		261		2.8		10	P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1565 Client ID RE15-10-7332L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 246322001 Serial Dilution ID: 1202036268

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Arsenic	5.89		6.35	J	7.81			MS
Beryllium	.576		.625	J	8.51			MS
Nickel	14.9		15		.336			MS
Selenium	2.5	U	12.5	U				MS
Thallium	.3	U	1.5	U				MS
Uranium	6.11		5.95		2.62			MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1565 Client ID RE46-10-11592L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 246338001 Serial Dilution ID: 1202039376

<u>Analyte</u>	<u>Initial Value ug/L</u>	<u>C</u>	<u>Serial Value ug/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Mercury	.068	U	.34	U				AV

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1565 **Client ID** RE15-10-7337L**Contract:** LANL01004**Matrix:** SOLID **Level:** Low**Sample ID:** 246322004 **Serial Dilution ID:** 1202060997

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Arsenic	7.51		12.4	J	64.4			MS
Beryllium	.917		1.07	J	16.7			MS
Nickel	19.9		20		.251			MS
Selenium	2.5	U	12.5	U				MS
Thallium	.435	J	1.5	U	100			MS
Uranium	5.21		4.97		4.61			MS

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1565

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 950254							
1202036249	MB for batch 950254	MB	S	13-FEB-10	.5g	50mL	
1202036254	LCS for batch 950254	LCS	S	13-FEB-10	.512g	50mL	
1202036252	RE15-10-7332S	MS	S	13-FEB-10	.525g	50mL	
1202036253	RE15-10-7332SD	MSD	S	13-FEB-10	.5g	50mL	
1202036250	RE15-10-7332D	DUP	S	13-FEB-10	.5g	50mL	
246322001	RE15-10-7332	SAMPLE	S	13-FEB-10	.526g	50mL	
246322002	RE15-10-7333	SAMPLE	S	13-FEB-10	.502g	50mL	
246322003	RE15-10-7336	SAMPLE	S	13-FEB-10	.5g	50mL	
246322004	RE15-10-7337	SAMPLE	S	13-FEB-10	.525g	50mL	
246322005	RE15-10-7334	SAMPLE	S	13-FEB-10	.517g	50mL	
246322006	RE15-10-7335	SAMPLE	S	13-FEB-10	.5g	50mL	
246322007	RE15-10-7338	SAMPLE	S	13-FEB-10	.502g	50mL	
246322008	RE15-10-7339	SAMPLE	S	13-FEB-10	.503g	50mL	
246322009	RE15-10-7342	SAMPLE	S	13-FEB-10	.525g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1565

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 950260							
1202036266	MB for batch 950260	MB	S	15-FEB-10	.508g	50mL	
1202036271	LCS for batch 950260	LCS	S	15-FEB-10	.503g	50mL	
1202036269	RE15-10-7332S	MS	S	15-FEB-10	.5g	50mL	
1202036270	RE15-10-7332SD	MSD	S	15-FEB-10	.512g	50mL	
1202036267	RE15-10-7332D	DUP	S	15-FEB-10	.5g	50mL	
246322001	RE15-10-7332	SAMPLE	S	15-FEB-10	.514g	50mL	
246322002	RE15-10-7333	SAMPLE	S	15-FEB-10	.525g	50mL	
246322003	RE15-10-7336	SAMPLE	S	15-FEB-10	.508g	50mL	
246322005	RE15-10-7334	SAMPLE	S	15-FEB-10	.5g	50mL	
246322006	RE15-10-7335	SAMPLE	S	15-FEB-10	.505g	50mL	
246322007	RE15-10-7338	SAMPLE	S	15-FEB-10	.551g	50mL	
246322008	RE15-10-7339	SAMPLE	S	15-FEB-10	.511g	50mL	
246322009	RE15-10-7342	SAMPLE	S	15-FEB-10	.513g	50mL	
Batch Number 960899							
1202060995	MB for batch 960899	MB	S	04-MAR-10	.543g	50mL	
1202061000	LCS for batch 960899	LCS	S	04-MAR-10	.517g	50mL	
1202060998	RE15-10-7337S	MS	S	04-MAR-10	.509g	50mL	
1202060999	RE15-10-7337SD	MSD	S	04-MAR-10	.547g	50mL	
1202060996	RE15-10-7337D	DUP	S	04-MAR-10	.517g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1565

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>
246322004	RE15-10-7337	SAMPLE	S	04-MAR-10	.513g	50mL	

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1565

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 951589							
1202039372	MB for batch 951589	MB	S	19-FEB-10	.539g	30mL	
1202039373	LCS for batch 951589	LCS	S	19-FEB-10	.2g	30mL	
1202039375	RE46-10-11592S	MS	S	19-FEB-10	.539g	30mL	
1202039377	RE46-10-11592SD	MSD	S	19-FEB-10	.536g	30mL	
1202039374	RE46-10-11592D	DUP	S	19-FEB-10	.522g	30mL	
246322001	RE15-10-7332	SAMPLE	S	19-FEB-10	.524g	30mL	
246322002	RE15-10-7333	SAMPLE	S	19-FEB-10	.589g	30mL	
246322003	RE15-10-7336	SAMPLE	S	19-FEB-10	.6g	30mL	
246322004	RE15-10-7337	SAMPLE	S	19-FEB-10	.523g	30mL	
246322005	RE15-10-7334	SAMPLE	S	19-FEB-10	.54g	30mL	
246322006	RE15-10-7335	SAMPLE	S	19-FEB-10	.526g	30mL	
246322007	RE15-10-7338	SAMPLE	S	19-FEB-10	.568g	30mL	
246322008	RE15-10-7339	SAMPLE	S	19-FEB-10	.532g	30mL	
246322009	RE15-10-7342	SAMPLE	S	19-FEB-10	.588g	30mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 03-MAR-10

End Date: 03-MAR-10

Client Sdg: 10-1565

Method MS

Data File: 100303-8

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	20:09					X											X								
S10	1	20:15					X											X								
S100	1	20:21					X											X								
ICV01	1	20:27					X											X								
ICB01	1	20:33					X											X								
CRDL01	1	20:40					X											X								
ICSA01	1	20:46					X											X								
ICSAB01	1	20:52					X											X								
CCV01	1	20:58					X											X								
CCB01	1	21:04					X											X								
LR01	1	21:10					X											X								
CCV02	1	21:16					X											X								
CCB02	1	21:22					X											X								
1202036266	2	21:28					X											X								
1202036271	40	21:35					X											X								
ZZZZZZ	2	21:41																								
ZZZZZZ	2	21:47																								
ZZZZZZ	2	21:53																								
CCV03	1	21:59					X											X								
CCB03	1	22:05					X											X								
246322001	2	22:11					X											X								
1202036267	2	22:17					X											X								
1202036269	2	22:23					X											X								
1202036270	2	22:30					X											X								
1202036268	10	22:36					X											X								
246322002	2	22:42					X											X								
246322003	2	22:48					X											X								
CCV04	1	22:54					X											X								
CCB04	1	23:00					X											X								
ZZZZZZ	2	23:06																								
246322005	2	23:12					X											X								
246322006	2	23:19					X											X								
246322007	2	23:25					X											X								
246322008	2	23:31					X											X								
246322009	2	23:37					X											X								
CCV05	1	23:43					X											X								
CCB05	1	23:49					X											X								

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 04-MAR-10

End Date: 05-MAR-10

Client Sdg: 10-1565

Method MS

Data File: 100304-13

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	Tl	U	V	Zn
S0.0	1	07:07																						X		
S10	1	07:09																						X		
S100	1	07:10																						X		
ICV01	1	07:12																						X		
ICB01	1	07:14																						X		
CRDL01	1	07:15																						X		
ICSA01	1	07:17																						X		
ICSAB01	1	07:19																						X		
CCV01	1	07:20																						X		
CCB01	1	07:22																						X		
ZZZZZZ	1	07:24																								
ZZZZZZ	1	07:25																								
ZZZZZZ	1	07:27																								
ZZZZZZ	1	07:29																								
ZZZZZZ	1	07:30																								
ZZZZZZ	1	07:32																								
ZZZZZZ	5	07:34																								
ZZZZZZ	1	07:35																								
CCV02	1	07:37																						X		
CCB02	1	07:39																						X		
ZZZZZZ	1	07:40																								
ZZZZZZ	1	07:42																								
ZZZZZZ	1	07:44																								
ZZZZZZ	1	07:45																								
ZZZZZZ	1	07:47																								
ZZZZZZ	1	07:49																								
ZZZZZZ	1	07:50																								
CCV03	1	07:52																						X		
CCB03	1	07:54																						X		
1202036266	2	07:56																						X		
1202036271	40	07:57																						X		
ZZZZZZ	2	07:59																								
ZZZZZZ	2	08:01																								
ZZZZZZ	2	08:02																								
CCV04	1	08:04																						X		
CCB04	1	08:06																						X		
246322001	2	08:07																						X		
1202036267	2	08:09																						X		
1202036269	2	08:11																						X		
1202036270	2	08:12																						X		

Samp No.	D/F	Run Time
I202036268	10	08:14
246322002	2	08:16
CCV05	1	08:17
CCB05	1	08:19
246322003	2	08:21
246322005	2	08:22
246322006	2	08:24
246322007	2	08:26
246322008	2	08:27
246322009	2	08:29
CCV06	1	08:31
CCB06	1	08:33

Metals
-14-
Analysis Run Log

Contract: LANL01004**Lab Code:** GEL**Inst Name:** ICPMS5**Start Date:** 04-MAR-10**End Date:** 05-MAR-10**Client Sdg:** 10-1565**Method:** MS**Data File:** 100304-9

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	23:40			X															X						
S10	1	23:44			X															X						
S100	1	23:47			X															X						
ICV01	1	23:51			X															X						
ICB01	1	23:54			X															X						
CRDL01	1	23:58			X															X						
ICSA01	1	00:02			X															X						
ICSA01	1	00:05			X															X						
CCV01	1	00:09			X															X						
CCB01	1	00:13			X															X						
1202036266	2	00:16			X															X						
1202036271	40	00:20			X															X						
ZZZZZZ	2	00:23																								
ZZZZZZ	2	00:27																								
ZZZZZZ	2	00:31																								
CCV02	1	00:34			X															X						
CCB02	1	00:38			X															X						
246322001	2	00:42			X															X						
1202036267	2	00:45			X															X						
1202036269	2	00:49			X															X						
1202036270	2	00:53			X															X						
1202036268	10	00:56			X															X						
246322002	2	01:00			X															X						
CCV03	1	01:04			X															X						
CCB03	1	01:07			X															X						
246322003	2	01:11			X															X						
246322005	2	01:15			X															X						
246322006	2	01:18			X															X						
246322007	2	01:22			X															X						
246322008	2	01:25			X															X						
246322009	2	01:29			X															X						
CCV04	1	01:33			X															X						
CCB04	1	01:36			X															X						

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 02-MAR-10

End Date: 02-MAR-10

Client Sdg: 10-1565

Method P

Data File: 030210-1

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	12:54	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S0.1	1	13:01		X		X		X		X	X	X		X		X			X		X				X	X
S0.5	1	13:06	X	X		X		X	X	X	X	X		X	X	X			X		X				X	X
SCAL	1	13:13	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
S10	1	13:20	X						X				X		X							X				
ICV01	1	13:26	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ICB01	1	13:33	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
PQL01	1	13:40	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
JCSA01	1	13:46	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
JCSAB01	1	13:53	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR01	1	13:59	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR02	1	14:05	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV01	1	14:11	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB01	1	14:18	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
LR03	1	14:27	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV02	1	14:34	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB02	1	14:41	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	14:47																								
ZZZZZZ	1	14:54																								
ZZZZZZ	1	15:01																								
ZZZZZZ	1	15:08																								
ZZZZZZ	1	15:15																								
ZZZZZZ	1	15:22																								
ZZZZZZ	1	15:29																								
ZZZZZZ	5	15:36																								
CCV03	1	15:43	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB03	1	15:50	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	15:57																								
ZZZZZZ	1	16:04																								
ZZZZZZ	1	16:11																								
ZZZZZZ	1	16:18																								
ZZZZZZ	1	16:25																								
ZZZZZZ	1	16:32																								
ZZZZZZ	1	16:38																								
CCV04	1	16:46	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB04	1	16:53	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCV05	1	17:40	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB05	1	17:47	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
ZZZZZZ	1	17:53																								
ZZZZZZ	1	18:00																								

Samp No.	D/F	Run Time																								
ZZZZZZ	1	18:07																								
ZZZZZZ	1	18:14																								
ZZZZZZ	1	18:21																								
ZZZZZZ	1	18:27																								
ZZZZZZ	5	18:34																								
ZZZZZZ	1	18:41																								
ZZZZZZ	1	18:47																								
CCV06	1	18:53	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
CCB06	1	19:00	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
ZZZZZZ	1	19:07																								
ZZZZZZ	1	19:14																								
ZZZZZZ	1	19:20																								
ZZZZZZ	1	19:27																								
ZZZZZZ	1	19:34																								
ZZZZZZ	1	19:41																								
ZZZZZZ	1	19:48																								
ZZZZZZ	1	19:54																								
ZZZZZZ	5	20:01																								
CCV07	1	20:08	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
CCB07	1	20:15	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
1202036249	1	20:22	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
1202036254	1	20:29	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
ZZZZZZ	1	20:35																								
ZZZZZZ	1	20:42																								
ZZZZZZ	1	20:49																								
246322001	1	20:56	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
1202036250	1	21:03	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
1202036252	1	21:10	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
1202036253	1	21:17	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
CCV08	1	21:24	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
CCB08	1	21:31	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
1202036251	5	21:37	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
246322002	1	21:44	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
246322003	1	21:51	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
246322004	1	21:58	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
246322005	1	22:05	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
246322006	1	22:12	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
246322007	1	22:19	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
246322008	1	22:25	X	X		X		X	X	X	X	X	X	X	X	X		X		X	X		X	X		
246322009	1	22:32	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	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
CCV09	1	22:39	X	X		X		X	X	X	X	X	X	X	X	X			X		X	X			X	X
CCB09	1	22:46	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: 22-FEB-10

End Date: 22-FEB-10

Client Sdg: 10-1565

Method AV

Data File: 022210S1-14

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	09:12															X									
S0.2	1	09:13															X									
S0.5	1	09:15															X									
S2.0	1	09:17															X									
S5.0	1	09:18															X									
S10.0	1	09:20															X									
ICV01	1	09:22															X									
ICB01	1	09:23															X									
CRDL01	1	09:25															X									
CCV01	1	09:27															X									
CCB01	1	09:28															X									
ZZZZZZ	1	09:30																								
ZZZZZZ	10	09:32																								
ZZZZZZ	1	09:34																								
ZZZZZZ	1	09:35																								
ZZZZZZ	1	09:37																								
ZZZZZZ	1	09:38																								
ZZZZZZ	1	09:40																								
ZZZZZZ	1	09:42																								
ZZZZZZ	1	09:43																								
ZZZZZZ	1	09:45																								
CCV02	1	09:47															X									
CCB02	1	09:48															X									
ZZZZZZ	1	09:50																								
ZZZZZZ	1	09:52																								
ZZZZZZ	1	09:54																								
ZZZZZZ	1	09:55																								
ZZZZZZ	1	09:57																								
ZZZZZZ	1	09:59																								
ZZZZZZ	1	10:00																								
ZZZZZZ	5	10:02																								
ZZZZZZ	1	10:04																								
ZZZZZZ	1	10:05																								
CCV03	1	10:07															X									
CCB03	1	10:09															X									
ZZZZZZ	1	10:10																								
ZZZZZZ	1	10:12																								
ZZZZZZ	1	10:14																								
ZZZZZZ	1	10:15																								
ZZZZZZ	1	10:17																								

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time
ZZZZZZ	1	10:19
ZZZZZZ	1	10:20
ZZZZZZ	10	10:22
ZZZZZZ	1	10:24
ZZZZZZ	1	10:25
CCV04	1	10:27
CCB04	1	10:29
ZZZZZZ	1	10:30
ZZZZZZ	1	10:32
ZZZZZZ	5	10:34
ZZZZZZ	1	10:35
ZZZZZZ	1	10:37
ZZZZZZ	1	10:39
ZZZZZZ	1	10:40
ZZZZZZ	1	10:42
ZZZZZZ	1	10:44
ZZZZZZ	1	10:45
CCV05	1	10:47
CCB05	1	10:49
ZZZZZZ	1	10:50
ZZZZZZ	1	10:52
ZZZZZZ	10	10:54
ZZZZZZ	1	10:56
ZZZZZZ	1	10:57
ZZZZZZ	1	10:59
ZZZZZZ	1	11:01
ZZZZZZ	5	11:02
ZZZZZZ	1	11:04
ZZZZZZ	1	11:06
CCV06	1	11:07
CCB06	1	11:09
ZZZZZZ	1	11:11
ZZZZZZ	1	11:12
ZZZZZZ	1	11:14
ZZZZZZ	1	11:16
ZZZZZZ	1	11:17
ZZZZZZ	1	11:19
ZZZZZZ	1	11:21
ZZZZZZ	1	11:22
ZZZZZZ	1	11:24

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	11:26																								
CCV07	1	11:27															X									
CCB07	1	11:29															X									
ZZZZZZ	1	11:31																								
ZZZZZZ	1	11:32																								
ZZZZZZ	1	11:34																								
ZZZZZZ	1	11:36																								
ZZZZZZ	1	11:38																								
ZZZZZZ	1	11:39																								
ZZZZZZ	1	11:41																								
1202039372	1	11:43															X									
1202039373	10	11:44															X									
ZZZZZZ	1	11:46																								
CCV08	1	11:48															X									
CCB08	1	11:49															X									
ZZZZZZ	1	11:51																								
ZZZZZZ	1	11:53																								
246322001	1	11:54															X									
246322002	1	11:56															X									
246322003	1	11:58															X									
246322004	1	11:59															X									
246322005	1	12:01															X									
246322006	1	12:03															X									
246322007	1	12:05															X									
246322008	1	12:06															X									
CCV09	1	12:08															X									
CCB09	1	12:10															X									
246322009	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	1	12:21																								
ZZZZZZ	1	12:23																								
1202039374	1	12:25															X									
1202039375	1	12:27															X									
CCV10	1	12:28															X									
CCB10	1	12:30															X									
1202039377	1	12:32															X									

Metals
-14-
Analysis Run Log

[illegible]

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS3

Start Date: 05-MAR-10

End Date: 06-MAR-10

Client Sdg: 10-1565

Method MS

Data File: 100305-2

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	12:28																					X			
SJ0	1	12:30																					X			
S100	1	12:32																					X			
ICV01	1	12:34																					X			
JCB01	1	12:36																					X			
CRDL01	1	12:38																					X			
JCSA01	1	12:41																					X			
JCSAB01	1	12:43																					X			
CCV01	1	12:45																					X			
CCB01	1	12:47																					X			
1202036266	2	12:50																					X			
1202036271	40	12:53																					X			
ZZZZZZ	2	12:56																								
ZZZZZZ	2	12:58																								
ZZZZZZ	2	13:00																								
246322001	2	13:02																					X			
1202036267	2	13:05																					X			
1202036269	2	13:07																					X			
1202036270	2	13:09																					X			
1202036268	10	13:11																					X			
CCV02	1	13:13																					X			
CCB02	1	13:16																					X			
246322002	2	13:18																					X			
246322003	2	13:20																					X			
246322005	2	13:22																					X			
246322006	2	13:24																					X			
246322007	2	13:27																					X			
246322008	2	13:29																					X			
246322009	2	13:31																					X			
CCV03	1	13:33																					X			
CCB03	1	13:36																					X			

Metals
-14-
Analysis Run Log

Contract: LANL01004**Lab Code:** GEL**Inst Name:** ICPMS3**Start Date:** 05-MAR-10**End Date:** 06-MAR-10**Client Sdg:** 10-1565**Method:** MS**Data File:** 100305-4

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	22:51			X		X											X					X	X		
S10	1	22:55			X		X											X					X	X		
S100	1	22:59			X		X											X					X	X		
ICV01	1	23:04			X		X											X					X	X		
ICB01	1	23:08			X		X											X					X	X		
CRDL01	1	23:13			X		X											X					X	X		
ICSA01	1	23:17			X		X											X					X	X		
ICSAB01	1	23:22			X		X											X					X	X		
CCV01	1	23:26			X		X											X					X	X		
CCB01	1	23:30			X		X											X					X	X		
LR01	1	23:35			X		X											X					X	X		
CCV02	1	23:39			X		X											X					X	X		
CCB02	1	23:44			X		X											X					X	X		
1202060995	2	23:48			X		X											X					X	X		
1202061000	40	23:53			X		X											X					X	X		
246322004	2	23:57			X		X											X					X	X		
1202060996	2	00:02			X		X											X					X	X		
1202060998	2	00:06			X		X											X					X	X		
1202060999	2	00:11			X		X											X					X	X		
1202060997	10	00:15			X		X											X					X	X		
CCV03	1	00:20			X		X											X					X	X		
CCB03	1	00:24			X		X											X					X	X		

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS3

Start Date: 05-MAR-10

Client Sdg: 10-1565

Method MS

Data File: 100305-7

End Date: 06-MAR-10

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	08:43																		X						
S10	1	08:45																		X						
S100	1	08:47																		X						
ICV01	1	08:49																		X						
ICB01	1	08:51																		X						
CRDL01	1	08:53																		X						
ICSA01	1	08:55																		X						
ICSAB01	1	08:57																		X						
CCV01	1	08:59																		X						
CCB01	1	09:01																		X						
1202060995	2	09:03																		X						
1202061000	40	09:05																		X						
246322004	2	09:07																		X						
1202060996	2	09:09																		X						
1202060998	2	09:11																		X						
1202060999	2	09:13																		X						
1202060997	10	09:16																		X						
CCV02	1	09:18																		X						
CCB02	1	09:20																		X						

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1565

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP/MS	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
SOLID	Aluminum		15.0	50
	Antimony		0.5	3
	Arsenic		1.0	5
	Barium		0.5	2
	Beryllium		0.1	.5
	Cadmium		0.1	1
	Calcium		33.0	100
	Chromium		1.0	3
	Cobalt		0.3	1
	Copper		0.33	1
	Iron		25.0	100
	Lead		0.5	2
	Magnesium		7.5	25
	Manganese		1.0	5
	Nickel		0.5	2
	Potassium		80.0	300
	Selenium		2.5	5
	Silver		0.2	1
	Sodium		80.0	250
	Thallium		0.3	1
	Uranium		0.066	.2
	Vanadium		2.0	10
	Zinc		2.0	10

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1565

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 15-JUN-09

		<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
MERCURY	<u>Analyte</u>			
SOLID	Mercury		0.068	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1565

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:

10-1565

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:

10-1565

Contract: LANI.01004

Instrument: OPTIMA3

Effective Dates:

01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Boron	Cadmium	Chromium	Cobalt	Copper
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	2.85580	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.44491	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	-29.9151	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.57616
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.60374	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	198.62
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	4.37985	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.36147	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	2.23785	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.36818	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.35273

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1565**

Contract: LANL01004

Instrument: OPTIMA3

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

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Iron	Lead	Magnesium	Manganese	Molybdenum
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	48.4946
Antimony	206.836	-0.02515	0.00000	0.00000	0.00000	-20.5057
Arsenic	188.979	-0.23424	0.00000	0.00000	0.00000	2.41902
Barium	233.527	-0.03042	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.16240	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.10329	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	-0.01944	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.01444	0.00000	0.00000	0.00000	-2.33100
Copper	324.752	-0.05293	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.09554	0.00000	0.00000	0.00000	-2.48774
Magnesium	279.077	1.04597	0.00000	0.00000	0.00000	-10.4683
Manganese	257.61	-0.09877	0.00000	0.04089	0.00000	0.00000
Molybdenum	202.031	-0.07763	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.80543	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.39429	1.18725
Selenium	196.026	-3.27508	0.00000	0.00000	0.00000	-3.07287
Silica	251.611	0.00000	0.00000	0.00000	0.00000	27.2377
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	12.3082
Silver	328.068	-0.32385	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-4.77918	0.00000
Tin	189.927	-0.01682	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.08168	0.00000	0.00000
Uranium	409.014	0.11400	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.14564	0.00000	-0.01931	0.00000	-14.1293
Zinc	213.857	0.09701	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1565**

Contract: LANL01004

Instrument: OPTIMA3

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

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Nickel	Phosphorous	Potassium	Selenium	Silica
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	-0.84443	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	-0.63547	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	6.37026	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1565**

Contract: LANL01004

Instrument: OPTIMA3

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

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Silicon	Silver	Strontium	Sulfur	Thallium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1565**

Contract: LANL01004

Instrument: OPTIMA3

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

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Tin	Titanium	Uranium	Vanadium	Zinc
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	-15.4932	3.30431	0.00000	-2.81282	0.00000
Arsenic	188.979	0.00000	-8.66313	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	-2.20293	0.00000
Beryllium	313.107	0.00000	-2.27027	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	-0.19473	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.39645	-1.41250	0.00000
Cobalt	228.616	0.00000	2.09497	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.55360	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	-9.37529	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.81635	-4.04400	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	-8.29801	0.00000	1.88584	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.43915	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	1.05947	-1.91382	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-12-
Linear Ranges

SDG NO. 10-1565

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS5

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	1	50000	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10
Arsenic	1000	1000	ug/L	01-FEB-10
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10
Silver	1000	250	ug/L	01-FEB-10
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-1565

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>
Calcium	20	500000	ug/L	01-FEB-10
Chromium	20	25000	ug/L	01-FEB-10
Cobalt	20	10000	ug/L	01-FEB-10
Copper	20	20000	ug/L	01-FEB-10
Iron	20	500000	ug/L	01-FEB-10
Lead	20	25000	ug/L	01-FEB-10
Magnesium	20	500000	ug/L	01-FEB-10
Manganese	20	10000	ug/L	01-FEB-10
Nickel	20	10000	ug/L	01-FEB-10
Potassium	20	300000	ug/L	01-FEB-10
Selenium	20	10000	ug/L	01-FEB-10
Silver	20	1000	ug/L	01-FEB-10
Sodium	20	500000	ug/L	01-FEB-10
Thallium	20	10000	ug/L	01-FEB-10
Uranium	20	15000	ug/L	01-FEB-10
Vanadium	20	10000	ug/L	01-FEB-10
Zinc	20	15000	ug/L	01-FEB-10
Aluminum	20	500000	ug/L	01-FEB-10
Antimony	20	10000	ug/L	01-FEB-10
Arsenic	20	10000	ug/L	01-FEB-10
Barium	20	15000	ug/L	01-FEB-10
Beryllium	20	3000	ug/L	01-FEB-10
Cadmium	20	10000	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-1565

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>
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10
Silver	1000	250	ug/L	01-FEB-10
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10
Aluminum	1	50000	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10
Arsenic	1000	1000	ug/L	01-FEB-10

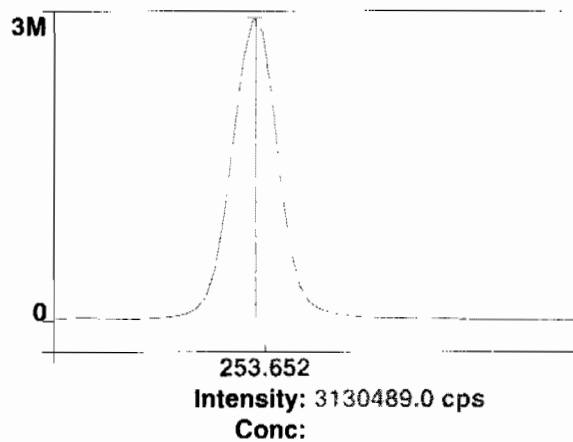
Raw Data

Method: Hg_ReAlign
Result: 030810

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

3/2/2010 12:45:20 Hg ReAlign... Actual peak offset (nm): -0.008
Drift (nm): -0.001 Slit adjustment: -4

Analysis Begun

Start Time: 3/2/2010 12:54:15

Plasma On Time: 3/1/2010 06:57:40

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\030210.sif

Batch ID:

Results Data Set: 030210

Results Library: C:\pe\Optima3\Results\Results.mdb

Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 3/1/2010 13:26:24

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: 3/2/2010 12:54:17

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0

Net

Corrected

Calib.

Analysis

Repl#	Analyte	Intensity	Intensity	Conc. Units	Time
1	Sc Radial	4869.5	4869.5	0.000 %	12:56:09
1	Y RADIAL	5132.8	5132.8	0.000 %	12:56:09
1	Al 396.153Radial†	-85.5	-85.2	[0.00] ug/L	12:56:29
1	Ca 317.933Radial†	14.5	14.4	[0.00] ug/L	12:56:29
1	Fe 238.204 Radial†	10.4	10.4	[0.00] ug/L	12:56:29
1	K 766.490 Radial†	2197.6	2190.3	[0.00] ug/L	12:56:09
1	Mg 279.077 IEC†	2.9	2.9	[0.00] ug/L	12:56:29
1	Na 589.592 Radial†	-362.5	-361.3	[0.00] ug/L	12:56:09
1	Sr 421.552†	32.0	31.9	[0.00] ug/L	12:56:09
1	Sc 361.383	776504.7	776504.7	0.0000 %	12:57:26
1	Y 371.029	692281.5	692281.5	0.0000 %	12:57:26
1	Ag 328.068†	192.3	195.8	[0.00] ug/L	12:57:26
1	As 188.979†	-33.8	-34.4	[0.00] ug/L	12:57:46
1	B 249.677†	-481.2	-489.8	[0.00] ug/L	12:57:46
1	Ba 233.527†	-12.3	-12.6	[0.00] ug/L	12:57:46
1	Be 313.107†	-10222.5	-10407.0	[0.00] ug/L	12:57:26
1	Cd 226.502†	-183.3	-186.6	[0.00] ug/L	12:57:46
1	Co 228.616†	-52.0	-52.9	[0.00] ug/L	12:57:46
1	Cr 267.716†	50.6	51.5	[0.00] ug/L	12:57:46
1	Cu 324.752†	7681.5	7820.2	[0.00] ug/L	12:57:26
1	Mn 257.610†	425.4	433.0	[0.00] ug/L	12:57:46
1	Mo 202.031†	6.4	6.5	[0.00] ug/L	12:57:46
1	Ni 231.604†	71.7	73.0	[0.00] ug/L	12:57:46
1	P 214.914†	217.9	221.8	[0.00] ug/L	12:57:46
1	Pb 220.353†	-67.4	-68.6	[0.00] ug/L	12:57:46
1	S 181.975 Axial†	45.7	46.5	[0.00] ug/L	12:57:46
1	Sb 206.836†	27.4	27.9	[0.00] ug/L	12:57:46
1	Se 196.026†	-17.8	-18.1	[0.00] ug/L	12:57:46
1	Si 251.611†	564.0	574.2	[0.00] ug/L	12:57:46
1	Sn 189.927†	9.0	9.1	[0.00] ug/L	12:57:46
1	Ti 334.940†	-1104.9	-1124.8	[0.00] ug/L	12:57:26
1	Tl 190.801†	-33.5	-34.1	[0.00] ug/L	12:57:46
1	U 409.014†	-2195.7	-2235.3	[0.00] ug/L	12:57:26
1	V 292.402†	-1625.8	-1655.1	[0.00] ug/L	12:57:26
1	Zn 213.857†	769.7	783.6	[0.00] ug/L	12:57:46
1	SiO2†	533.0	542.6	[0.00] ug/L	12:58:42
2	Sc Radial	4866.9	4866.9	0.000 %	12:56:34
2	Y RADIAL	5085.2	5085.2	0.000 %	12:56:34
2	Al 396.153Radial†	-88.8	-88.5	[0.00] ug/L	12:56:55
2	Ca 317.933Radial†	18.1	18.1	[0.00] ug/L	12:56:55
2	Fe 238.204 Radial†	7.6	7.6	[0.00] ug/L	12:56:55
2	K 766.490 Radial†	2212.1	2205.9	[0.00] ug/L	12:56:34
2	Mg 279.077 IEC†	3.4	3.4	[0.00] ug/L	12:56:55
2	Na 589.592 Radial†	-345.6	-344.7	[0.00] ug/L	12:56:34
2	Sr 421.552†	-1.6	-1.6	[0.00] ug/L	12:56:34
2	Sc 361.383	816813.1	816813.1	0.0000 %	12:57:52
2	Y 371.029	727431.7	727431.7	0.0000 %	12:57:52
2	Ag 328.068†	161.8	156.6	[0.00] ug/L	12:57:52
2	As 188.979†	-28.7	-27.8	[0.00] ug/L	12:58:12
2	B 249.677†	-490.0	-474.2	[0.00] ug/L	12:58:12
2	Ba 233.527†	-9.3	-9.0	[0.00] ug/L	12:58:12
2	Be 313.107†	-10302.1	-9970.5	[0.00] ug/L	12:57:52
2	Cd 226.502†	-190.2	-184.1	[0.00] ug/L	12:58:12
2	Co 228.616†	-69.6	-67.4	[0.00] ug/L	12:58:12
2	Cr 267.716†	59.8	57.9	[0.00] ug/L	12:58:12
2	Cu 324.752†	7648.6	7402.4	[0.00] ug/L	12:57:52
2	Mn 257.610†	435.5	421.5	[0.00] ug/L	12:58:12
2	Mo 202.031†	12.8	12.4	[0.00] ug/L	12:58:12
2	Ni 231.604†	66.6	64.4	[0.00] ug/L	12:58:12
2	P 214.914†	221.4	214.3	[0.00] ug/L	12:58:12
2	Pb 220.353†	-51.4	-49.7	[0.00] ug/L	12:58:12
2	S 181.975 Axial†	45.0	43.6	[0.00] ug/L	12:58:12
2	Sb 206.836†	33.1	32.1	[0.00] ug/L	12:58:12
2	Se 196.026†	-21.7	-21.0	[0.00] ug/L	12:58:12
2	Si 251.611†	513.5	497.0	[0.00] ug/L	12:58:12
2	Sn 189.927†	11.9	11.5	[0.00] ug/L	12:58:12
2	Ti 334.940†	-1077.7	-1043.0	[0.00] ug/L	12:57:52
2	Tl 190.801†	-26.1	-25.3	[0.00] ug/L	12:58:12
2	U 409.014†	-2180.7	-2110.5	[0.00] ug/L	12:57:52
2	V 292.402†	-1569.3	-1518.8	[0.00] ug/L	12:57:52

2	Zn 213.857†	750.7	726.6	[0.00] ug/L	12:58:12
2	SiO2†	511.1	494.7	[0.00] ug/L	12:58:47
3	Sc Radial	4823.9	4823.9	0.000 %	12:57:00
3	Y RADIAL	5053.1	5053.1	0.000 %	12:57:00
3	Al 396.153Radial†	-83.3	-83.8	[0.00] ug/L	12:57:20
3	Ca 317.933Radial†	13.6	13.7	[0.00] ug/L	12:57:20
3	Fe 238.204 Radial†	8.2	8.3	[0.00] ug/L	12:57:20
3	K 766.490 Radial†	2084.4	2097.2	[0.00] ug/L	12:57:00
3	Mg 279.077 IEC†	2.7	2.8	[0.00] ug/L	12:57:20
3	Na 589.592 Radial†	-385.5	-387.8	[0.00] ug/L	12:57:00
3	Sr 421.552†	30.4	30.6	[0.00] ug/L	12:57:00
3	Sc 361.383	778235.1	778235.1	0.0000 %	12:58:17
3	Y 371.029	694956.1	694956.1	0.0000 %	12:58:17
3	Ag 328.068†	267.5	271.7	[0.00] ug/L	12:58:17
3	As 188.979†	-22.4	-22.8	[0.00] ug/L	12:58:37
3	B 249.677†	-483.8	-491.4	[0.00] ug/L	12:58:37
3	Ba 233.527†	4.4	4.5	[0.00] ug/L	12:58:37
3	Be 313.107†	-10277.2	-10439.4	[0.00] ug/L	12:58:17
3	Cd 226.502†	-195.7	-198.8	[0.00] ug/L	12:58:37
3	Co 228.616†	-76.1	-77.3	[0.00] ug/L	12:58:37
3	Cr 267.716†	76.6	77.8	[0.00] ug/L	12:58:37
3	Cu 324.752†	7800.1	7923.2	[0.00] ug/L	12:58:17
3	Mn 257.610†	437.2	444.1	[0.00] ug/L	12:58:37
3	Mo 202.031†	5.5	5.6	[0.00] ug/L	12:58:37
3	Ni 231.604†	67.0	68.0	[0.00] ug/L	12:58:37
3	P 214.914†	223.2	226.7	[0.00] ug/L	12:58:37
3	Pb 220.353†	-64.7	-65.8	[0.00] ug/L	12:58:37
3	S 181.975 Axial†	50.9	51.7	[0.00] ug/L	12:58:37
3	Sb 206.836†	41.4	42.0	[0.00] ug/L	12:58:37
3	Se 196.026†	-26.0	-26.4	[0.00] ug/L	12:58:37
3	Si 251.611†	526.4	534.7	[0.00] ug/L	12:58:37
3	Sn 189.927†	-3.3	-3.4	[0.00] ug/L	12:58:37
3	Ti 334.940†	-1185.4	-1204.1	[0.00] ug/L	12:58:17
3	Tl 190.801†	-33.8	-34.3	[0.00] ug/L	12:58:37
3	U 409.014†	-2194.8	-2229.4	[0.00] ug/L	12:58:17
3	V 292.402†	-1607.4	-1632.8	[0.00] ug/L	12:58:17
3	Zn 213.857†	747.3	759.1	[0.00] ug/L	12:58:37
3	SiO2†	526.0	534.3	[0.00] ug/L	12:58:52

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	790517.6	22788.98	2.88%	0.0000 %
Sc Radial	4853.4	25.60	0.53%	0.000 %
Y 371.029	704889.7	19567.64	2.78%	0.0000 %
Y RADIAL	5090.4	40.10	0.79%	0.000 %
Ag 328.068†	208.0	58.52	28.13%	[0.00] ug/L
Al 396.153Radial†	-85.8	2.44	2.84%	[0.00] ug/L
As 188.979†	-28.3	5.85	20.65%	[0.00] ug/L
B 249.677†	-485.1	9.52	1.96%	[0.00] ug/L
Ba 233.527†	-5.7	9.00	158.37%	[0.00] ug/L
Be 313.107†	-10272.3	261.88	2.55%	[0.00] ug/L
Ca 317.933Radial†	15.4	2.38	15.44%	[0.00] ug/L
Cd 226.502†	-189.8	7.84	4.13%	[0.00] ug/L
Co 228.616†	-65.8	12.25	18.61%	[0.00] ug/L
Cr 267.716†	62.4	13.74	22.02%	[0.00] ug/L
Cu 324.752†	7715.2	275.79	3.57%	[0.00] ug/L
Fe 238.204 Radial†	8.8	1.45	16.53%	[0.00] ug/L
K 766.490 Radial†	2164.5	58.80	2.72%	[0.00] ug/L
Mg 279.077 IEC†	3.0	0.36	11.78%	[0.00] ug/L
Mn 257.610†	432.9	11.31	2.61%	[0.00] ug/L
Mo 202.031†	8.1	3.71	45.56%	[0.00] ug/L
Na 589.592 Radial†	-364.6	21.76	5.97%	[0.00] ug/L
Ni 231.604†	68.5	4.30	6.28%	[0.00] ug/L
P 214.914†	221.0	6.27	2.84%	[0.00] ug/L
Pb 220.353†	-61.3	10.17	16.58%	[0.00] ug/L
S 181.975 Axial†	47.3	4.09	8.66%	[0.00] ug/L
Sb 206.836†	34.0	7.24	21.31%	[0.00] ug/L
Se 196.026†	-21.8	4.22	19.33%	[0.00] ug/L
Si 251.611†	535.3	38.62	7.21%	[0.00] ug/L

Sn 189.927†	5.8	7.98	138.62%	[0.00]	ug/L
Sr 421.552†	20.3	18.98	93.53%	[0.00]	ug/L
Ti 334.940†	-1124.0	80.53	7.16%	[0.00]	ug/L
Tl 190.801†	-31.2	5.17	16.54%	[0.00]	ug/L
U 409.014†	-2191.7	70.42	3.21%	[0.00]	ug/L
V 292.402†	-1602.2	73.13	4.56%	[0.00]	ug/L
Zn 213.857†	756.4	28.64	3.79%	[0.00]	ug/L
SiO2†	523.8	25.60	4.89%	[0.00]	ug/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 3/2/2010 13:01:03
 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	4849.4	4849.4	99.9 %		13:02:55
1	Y RADIAL	5101.3	5101.3	100.2 %		13:02:55
1	K 766.490 Radial†	7374.1	5215.8	[1000] ug/L		13:02:55
1	Sr 421.552†	13914.2	13905.5	[100] ug/L		13:02:55
1	Sc 361.383	780733.6	780733.6	98.762 %		13:03:12
1	Y 371.029	694981.7	694981.7	98.594 %		13:03:12
1	Ag 328.068†	20090.5	20134.2	[100] ug/L		13:03:12
1	As 188.979†	206.1	237.0	[100] ug/L		13:03:32
1	B 249.677†	3378.4	3905.9	[100] ug/L		13:03:12
1	Ba 233.527†	8718.2	8833.1	[100] ug/L		13:03:12
1	Be 313.107†	242963.3	256280.4	[100] ug/L		13:03:12
1	Cd 226.502†	7151.6	7431.0	[100] ug/L		13:03:12
1	Co 228.616†	3384.8	3493.1	[100] ug/L		13:03:32
1	Cr 267.716†	7611.7	7644.6	[100] ug/L		13:03:12
1	Cu 324.752†	34771.2	27491.7	[100] ug/L		13:03:12
1	Mn 257.610†	66324.2	66722.4	[100] ug/L		13:03:12
1	Mo 202.031†	1124.0	1130.0	[100] ug/L		13:03:32
1	Ni 231.604†	3278.9	3251.5	[100] ug/L		13:03:32
1	P 214.914†	1124.5	917.6	[500] ug/L		13:03:32
1	Pb 220.353†	551.5	619.7	[100] ug/L		13:03:32
1	S 181.975 Axial†	205.0	160.3	[200] ug/L		13:03:32
1	Sb 206.836†	296.1	265.8	[100] ug/L		13:03:32
1	Se 196.026†	143.1	166.8	[100] ug/L		13:03:32
1	Si 251.611†	14675.3	14323.8	[500] ug/L		13:03:12
1	Sn 189.927†	435.8	435.5	[100] ug/L		13:03:32
1	Ti 334.940†	51115.2	52879.7	[100] ug/L		13:03:12
1	Tl 190.801†	185.8	219.4	[100] ug/L		13:03:32
1	U 409.014†	979.7	3183.7	[100] ug/L		13:03:12
1	V 292.402†	11215.1	12957.8	[100] ug/L		13:03:12
1	Zn 213.857†	10067.9	9437.6	[100] ug/L		13:03:12
1	SiO2†	14722.8	14383.5	[1069.5] ug/L		13:04:29
2	Sc Radial	4848.6	4848.6	99.9 %		13:03:00
2	Y RADIAL	5062.1	5062.1	99.44 %		13:03:00
2	K 766.490 Radial†	7190.8	5033.4	[1000] ug/L		13:03:00
2	Sr 421.552†	13828.6	13822.1	[100] ug/L		13:03:00
2	Sc 361.383	785775.3	785775.3	99.400 %		13:03:38
2	Y 371.029	699367.6	699367.6	99.217 %		13:03:38
2	Ag 328.068†	20272.8	20187.1	[100] ug/L		13:03:38
2	As 188.979†	205.3	234.9	[100] ug/L		13:03:58
2	B 249.677†	3449.1	3955.1	[100] ug/L		13:03:38
2	Ba 233.527†	8837.6	8896.6	[100] ug/L		13:03:38
2	Be 313.107†	244518.4	256266.4	[100] ug/L		13:03:38
2	Cd 226.502†	7172.9	7406.0	[100] ug/L		13:03:38
2	Co 228.616†	3382.0	3468.2	[100] ug/L		13:03:58
2	Cr 267.716†	7657.2	7641.0	[100] ug/L		13:03:38
2	Cu 324.752†	35142.7	27639.5	[100] ug/L		13:03:38
2	Mn 257.610†	66806.1	66776.4	[100] ug/L		13:03:38
2	Mo 202.031†	1125.0	1123.7	[100] ug/L		13:03:58
2	Ni 231.604†	3266.2	3217.4	[100] ug/L		13:03:58
2	P 214.914†	1126.6	912.5	[500] ug/L		13:03:58
2	Pb 220.353†	581.0	645.9	[100] ug/L		13:03:58
2	S 181.975 Axial†	202.6	156.6	[200] ug/L		13:03:58
2	Sb 206.836†	285.0	252.7	[100] ug/L		13:03:58
2	Se 196.026†	149.7	172.4	[100] ug/L		13:03:58
2	Si 251.611†	14825.1	14379.3	[500] ug/L		13:03:38
2	Sn 189.927†	428.9	425.7	[100] ug/L		13:03:58
2	Ti 334.940†	51461.8	52896.4	[100] ug/L		13:03:38
2	Tl 190.801†	189.1	221.5	[100] ug/L		13:03:58
2	U 409.014†	1132.8	3331.3	[100] ug/L		13:03:38

2	V 292.402†	11327.7	12998.4	[100]	ug/L	13:03:38
2	Zn 213.857†	10134.9	9439.6	[100]	ug/L	13:03:38
2	SiO2†	14568.7	14132.7	[1069.5]	ug/L	13:04:34
3	Sc Radial	4917.5	4917.5	101	%	13:03:05
3	Y RADIAL	5163.0	5163.0	101.4	%	13:03:05
3	K 766.490 Radial†	7445.8	5184.3	[1000]	ug/L	13:03:05
3	Sr 421.552†	14132.4	13927.9	[100]	ug/L	13:03:05
3	Sc 361.383	782915.5	782915.5	99.038	%	13:04:03
3	Y 371.029	697125.5	697125.5	98.899	%	13:04:03
3	Ag 328.068†	20294.9	20283.9	[100]	ug/L	13:04:03
3	As 188.979†	198.6	228.9	[100]	ug/L	13:04:23
3	B 249.677†	3472.3	3991.2	[100]	ug/L	13:04:03
3	Ba 233.527†	8770.3	8861.1	[100]	ug/L	13:04:03
3	Be 313.107†	243489.9	256126.5	[100]	ug/L	13:04:03
3	Cd 226.502†	7164.5	7423.9	[100]	ug/L	13:04:03
3	Co 228.616†	3409.6	3508.5	[100]	ug/L	13:04:23
3	Cr 267.716†	7549.4	7560.3	[100]	ug/L	13:04:03
3	Cu 324.752†	35032.9	27657.8	[100]	ug/L	13:04:03
3	Mn 257.610†	66600.9	66814.7	[100]	ug/L	13:04:03
3	Mo 202.031†	1147.9	1150.9	[100]	ug/L	13:04:23
3	Ni 231.604†	3309.6	3273.3	[100]	ug/L	13:04:23
3	P 214.914†	1116.8	906.7	[500]	ug/L	13:04:23
3	Pb 220.353†	576.9	643.9	[100]	ug/L	13:04:23
3	S 181.975 Axial†	200.6	155.3	[200]	ug/L	13:04:23
3	Sb 206.836†	291.4	260.2	[100]	ug/L	13:04:23
3	Se 196.026†	155.2	178.6	[100]	ug/L	13:04:23
3	Si 251.611†	14691.8	14299.1	[500]	ug/L	13:04:03
3	Sn 189.927†	435.2	433.6	[100]	ug/L	13:04:23
3	Ti 334.940†	51236.1	52857.6	[100]	ug/L	13:04:03
3	Tl 190.801†	191.0	224.1	[100]	ug/L	13:04:23
3	U 409.014†	988.7	3190.0	[100]	ug/L	13:04:03
3	V 292.402†	11213.8	12925.0	[100]	ug/L	13:04:03
3	Zn 213.857†	10139.6	9481.6	[100]	ug/L	13:04:03
3	SiO2†	14827.2	14447.3	[1069.5]	ug/L	13:04:39

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	783141.4	2528.43	0.32%	99.067 %
Sc Radial	4871.8	39.56	0.81%	100 %
Y 371.029	697158.3	2193.14	0.31%	98.903 %
Y RADIAL	5108.8	50.86	1.00%	100.4 %
Ag 328.068†	20201.7	75.90	0.38%	[100] ug/L
As 188.979†	233.6	4.21	1.80%	[100] ug/L
B 249.677†	3950.7	42.80	1.08%	[100] ug/L
Ba 233.527†	8863.6	31.84	0.36%	[100] ug/L
Be 313.107†	256224.4	85.11	0.03%	[100] ug/L
Cd 226.502†	7420.3	12.90	0.17%	[100] ug/L
Co 228.616†	3489.9	20.32	0.58%	[100] ug/L
Cr 267.716†	7615.3	47.67	0.63%	[100] ug/L
Cu 324.752†	27596.3	91.11	0.33%	[100] ug/L
K 766.490 Radial†	5144.5	97.45	1.89%	[1000] ug/L
Mn 257.610†	66771.2	46.35	0.07%	[100] ug/L
Mo 202.031†	1134.8	14.26	1.26%	[100] ug/L
Ni 231.604†	3247.4	28.16	0.87%	[100] ug/L
P 214.914†	912.3	5.44	0.60%	[500] ug/L
Pb 220.353†	636.5	14.56	2.29%	[100] ug/L
S 181.975 Axial†	157.4	2.61	1.66%	[200] ug/L
Sb 206.836†	259.6	6.57	2.53%	[100] ug/L
Se 196.026†	172.6	5.90	3.42%	[100] ug/L
Si 251.611†	14334.1	41.04	0.29%	[500] ug/L
Sn 189.927†	431.6	5.18	1.20%	[100] ug/L
Sr 421.552†	13885.2	55.75	0.40%	[100] ug/L
Ti 334.940†	52877.9	19.46	0.04%	[100] ug/L
Tl 190.801†	221.7	2.35	1.06%	[100] ug/L
U 409.014†	3235.0	83.46	2.58%	[100] ug/L
V 292.402†	12960.4	36.76	0.28%	[100] ug/L
Zn 213.857†	9452.9	24.86	0.26%	[100] ug/L
SiO2†	14321.2	166.28	1.16%	[1069.5] ug/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 3/2/2010 13:06:49
 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	4795.1	4795.1	98.8 %	13:08:42
1	Y RADIAL	4998.8	4998.8	98.20 %	13:08:42
1	Al 396.153Radial†	5214.4	5363.6	[5000] ug/L	13:08:42
1	Ca 317.933Radial†	2898.8	2918.6	[5000] ug/L	13:09:02
1	K 766.490 Radial†	28476.5	26658.2	[5000] ug/L	13:08:42
1	Mg 279.077 IEC†	134.6	133.2	[5000] ug/L	13:09:02
1	Sr 421.552†	70275.0	71108.8	[500] ug/L	13:08:42
1	Sc 361.383	798571.6	798571.6	101.02 %	13:09:59
1	Y 371.029	704046.2	704046.2	99.880 %	13:09:59
1	Ag 328.068†	101620.5	100387.5	[500] ug/L	13:10:04
1	As 188.979†	1114.3	1131.4	[500] ug/L	13:10:24
1	B 249.677†	20005.7	20289.1	[500] ug/L	13:10:04
1	Ba 233.527†	44264.4	43823.6	[500] ug/L	13:10:04
1	Be 313.107†	1278097.8	1275479.9	[500] ug/L	13:09:59
1	Cd 226.502†	36533.0	36354.4	[500] ug/L	13:10:04
1	Co 228.616†	17618.3	17506.5	[500] ug/L	13:10:04
1	Cr 267.716†	37941.2	37496.2	[500] ug/L	13:10:04
1	Cu 324.752†	147553.1	138349.7	[500] ug/L	13:10:04
1	Mn 257.610†	326994.2	323263.5	[500] ug/L	13:10:04
1	Mo 202.031†	5611.8	5547.1	[500] ug/L	13:10:24
1	Ni 231.604†	16586.6	16350.8	[500] ug/L	13:10:04
1	P 214.914†	4837.5	4567.8	[2500] ug/L	13:10:24
1	Pb 220.353†	3097.9	3128.0	[500] ug/L	13:10:24
1	S 181.975 Axial†	826.1	770.6	[1000] ug/L	13:10:24
1	Sb 206.836†	1333.2	1285.7	[500] ug/L	13:10:24
1	Se 196.026†	838.0	851.4	[500] ug/L	13:10:24
1	Si 251.611†	72874.7	71604.4	[2500] ug/L	13:10:04
1	Sn 189.927†	2171.3	2143.7	[500] ug/L	13:10:24
1	Ti 334.940†	258778.3	257292.4	[500] ug/L	13:10:04
1	Tl 190.801†	1075.0	1095.4	[500] ug/L	13:10:24
1	U 409.014†	13597.8	15652.4	[500] ug/L	13:10:04
1	V 292.402†	63518.7	64480.3	[500] ug/L	13:10:04
1	Zn 213.857†	47831.2	46592.4	[500] ug/L	13:10:04
1	SiO2†	72653.2	71396.6	[5347.5] ug/L	13:11:31
2	Sc Radial	4824.5	4824.5	99.4 %	13:09:07
2	Y RADIAL	5033.5	5033.5	98.88 %	13:09:07
2	Al 396.153Radial†	5260.9	5378.2	[5000] ug/L	13:09:07
2	Ca 317.933Radial†	2882.3	2884.1	[5000] ug/L	13:09:27
2	K 766.490 Radial†	28491.4	26497.5	[5000] ug/L	13:09:07
2	Mg 279.077 IEC†	133.2	130.9	[5000] ug/L	13:09:27
2	Sr 421.552†	70458.6	70860.1	[500] ug/L	13:09:07
2	Sc 361.383	790164.8	790164.8	99.955 %	13:10:30
2	Y 371.029	698452.5	698452.5	99.087 %	13:10:30
2	Ag 328.068†	101335.9	101173.1	[500] ug/L	13:10:35
2	As 188.979†	1112.2	1141.0	[500] ug/L	13:10:55
2	B 249.677†	20085.5	20579.7	[500] ug/L	13:10:35
2	Ba 233.527†	44201.9	44227.3	[500] ug/L	13:10:35
2	Be 313.107†	1267334.4	1278172.6	[500] ug/L	13:10:30
2	Cd 226.502†	36444.2	36650.3	[500] ug/L	13:10:35
2	Co 228.616†	17519.4	17593.0	[500] ug/L	13:10:35
2	Cr 267.716†	38002.9	37957.4	[500] ug/L	13:10:35
2	Cu 324.752†	147707.7	140058.4	[500] ug/L	13:10:35
2	Mn 257.610†	326575.2	326288.1	[500] ug/L	13:10:35
2	Mo 202.031†	5631.9	5626.3	[500] ug/L	13:10:55
2	Ni 231.604†	16574.8	16513.7	[500] ug/L	13:10:35
2	P 214.914†	4860.9	4642.1	[2500] ug/L	13:10:55
2	Pb 220.353†	3114.1	3176.8	[500] ug/L	13:10:55
2	S 181.975 Axial†	832.1	785.2	[1000] ug/L	13:10:55
2	Sb 206.836†	1341.5	1308.1	[500] ug/L	13:10:55

2	Se 196.026†	842.4	864.6	[500] ug/L	13:10:55
2	Si 251.611†	72655.8	72152.9	[2500] ug/L	13:10:35
2	Sn 189.927†	2175.6	2170.8	[500] ug/L	13:10:55
2	Ti 334.940†	258573.6	259813.0	[500] ug/L	13:10:35
2	Tl 190.801†	1090.3	1122.0	[500] ug/L	13:10:55
2	U 409.014†	13439.7	15637.4	[500] ug/L	13:10:35
2	V 292.402†	63639.4	65270.0	[500] ug/L	13:10:35
2	Zn 213.857†	47611.8	46876.6	[500] ug/L	13:10:35
2	SiO2†	73334.8	72843.7	[5347.5] ug/L	13:11:37
3	Sc Radial	4862.0	4862.0	100 %	13:09:32
3	Y RADIAL	5076.2	5076.2	99.72 %	13:09:32
3	Al 396.153Radial†	5252.4	5328.9	[5000] ug/L	13:09:32
3	Ca 317.933Radial†	2841.5	2821.1	[5000] ug/L	13:09:52
3	K 766.490 Radial†	28682.6	26467.4	[5000] ug/L	13:09:32
3	Mg 279.077 IEC†	132.3	129.0	[5000] ug/L	13:09:52
3	Sr 421.552†	70819.9	70674.4	[500] ug/L	13:09:32
3	Sc 361.383	789864.5	789864.5	99.917 %	13:11:01
3	Y 371.029	697181.0	697181.0	98.906 %	13:11:01
3	Ag 328.068†	100867.8	100743.2	[500] ug/L	13:11:06
3	As 188.979†	1123.6	1152.8	[500] ug/L	13:11:26
3	B 249.677†	19996.7	20498.3	[500] ug/L	13:11:06
3	Ba 233.527†	43907.1	43949.1	[500] ug/L	13:11:06
3	Be 313.107†	1267803.8	1279124.3	[500] ug/L	13:11:01
3	Cd 226.502†	36233.1	36452.9	[500] ug/L	13:11:06
3	Co 228.616†	17440.6	17520.8	[500] ug/L	13:11:06
3	Cr 267.716†	37675.0	37643.7	[500] ug/L	13:11:06
3	Cu 324.752†	146585.6	138991.5	[500] ug/L	13:11:06
3	Mn 257.610†	324165.7	324000.8	[500] ug/L	13:11:06
3	Mo 202.031†	5631.1	5627.7	[500] ug/L	13:11:26
3	Ni 231.604†	16468.0	16413.1	[500] ug/L	13:11:06
3	P 214.914†	4835.0	4618.0	[2500] ug/L	13:11:26
3	Pb 220.353†	3117.6	3181.6	[500] ug/L	13:11:26
3	S 181.975 Axial†	823.1	776.5	[1000] ug/L	13:11:26
3	Sb 206.836†	1331.2	1298.3	[500] ug/L	13:11:26
3	Se 196.026†	831.1	853.6	[500] ug/L	13:11:26
3	Si 251.611†	72169.6	71693.9	[2500] ug/L	13:11:06
3	Sn 189.927†	2169.1	2165.2	[500] ug/L	13:11:26
3	Ti 334.940†	256547.8	257883.9	[500] ug/L	13:11:06
3	Tl 190.801†	1078.5	1110.7	[500] ug/L	13:11:26
3	U 409.014†	13435.1	15638.0	[500] ug/L	13:11:06
3	V 292.402†	63144.8	64799.3	[500] ug/L	13:11:06
3	Zn 213.857†	47457.1	46739.9	[500] ug/L	13:11:06
3	SiO2†	73122.1	72658.8	[5347.5] ug/L	13:11:42

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	792867.0	4942.61	0.62%	100.30 %
Sc Radial	4827.2	33.52	0.69%	99.5 %
Y 371.029	699893.2	3652.33	0.52%	99.291 %
Y RADIAL	5036.2	38.79	0.77%	98.94 %
Ag 328.068†	100767.9	393.39	0.39%	[500] ug/L
Al 396.153Radial†	5356.9	25.33	0.47%	[5000] ug/L
As 188.979†	1141.8	10.73	0.94%	[500] ug/L
B 249.677†	20455.7	149.90	0.73%	[500] ug/L
Ba 233.527†	44000.0	206.59	0.47%	[500] ug/L
Be 313.107†	1277592.3	1890.24	0.15%	[500] ug/L
Ca 317.933Radial†	2874.6	49.47	1.72%	[5000] ug/L
Cd 226.502†	36485.9	150.68	0.41%	[500] ug/L
Co 228.616†	17540.1	46.39	0.26%	[500] ug/L
Cr 267.716†	37699.1	235.57	0.62%	[500] ug/L
Cu 324.752†	139133.2	863.08	0.62%	[500] ug/L
K 766.490 Radial†	26541.0	102.54	0.39%	[5000] ug/L
Mg 279.077 IEC†	131.1	2.10	1.60%	[5000] ug/L
Mn 257.610†	324517.5	1577.13	0.49%	[500] ug/L
Mo 202.031†	5600.3	46.15	0.82%	[500] ug/L
Ni 231.604†	16425.9	82.19	0.50%	[500] ug/L
P 214.914†	4609.3	37.93	0.82%	[2500] ug/L
Pb 220.353†	3162.1	29.66	0.94%	[500] ug/L
S 181.975 Axial†	777.4	7.37	0.95%	[1000] ug/L

Sb 206.836†	1297.4	11.20	0.86%	[500] ug/L
Se 196.026†	856.5	7.06	0.82%	[500] ug/L
Si 251.611†	71817.1	294.25	0.41%	[2500] ug/L
Sn 189.927†	2159.9	14.32	0.66%	[500] ug/L
Sr 421.552†	70881.1	217.99	0.31%	[500] ug/L
Ti 334.940†	258329.8	1318.13	0.51%	[500] ug/L
Tl 190.801†	1109.4	13.36	1.20%	[500] ug/L
U 409.014†	15642.6	8.49	0.05%	[500] ug/L
V 292.402†	64849.9	397.28	0.61%	[500] ug/L
Zn 213.857†	46736.3	142.13	0.30%	[500] ug/L
SiO2†	72299.7	787.56	1.09%	[5347.5] ug/L

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

Autosampler Location: 4
 Date Collected: 3/2/2010 13:13:52
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	4789.6	4789.6	98.7 %	13:15:45
1	Y RADIAL	4999.9	4999.9	98.22 %	13:15:45
1	Al 396.153Radial†	10291.8	10514.8	[10000] ug/L	13:15:45
1	Ca 317.933Radial†	5670.6	5730.8	[10000] ug/L	13:15:45
1	Fe 238.204 Radial†	948.1	952.0	[10000] ug/L	13:16:05
1	K 766.490 Radial†	53352.0	51898.4	[10000] ug/L	13:15:45
1	Mg 279.077 IEC†	259.0	259.4	[10000] ug/L	13:16:05
1	Na 589.592 Radial†	28266.0	29007.2	[10000] ug/L	13:15:45
1	Sr 421.552†	135974.2	137765.6	[1000] ug/L	13:15:45
1	Sc 361.383	776666.3	776666.3	98.248 %	13:17:08
1	Y 371.029	686643.2	686643.2	97.411 %	13:17:08
1	Ag 328.068†	201446.8	204831.5	[1000] ug/L	13:17:08
1	As 188.979†	2206.9	2274.6	[1000] ug/L	13:17:28
1	B 249.677†	40102.6	41303.0	[1000] ug/L	13:17:08
1	Ba 233.527†	86852.7	88407.3	[1000] ug/L	13:17:08
1	Be 313.107†	2485952.4	2540559.9	[1000] ug/L	13:17:03
1	Cd 226.502†	71474.0	72938.5	[1000] ug/L	13:17:08
1	Co 228.616†	33515.1	34178.6	[1000] ug/L	13:17:28
1	Cr 267.716†	74383.7	75647.9	[1000] ug/L	13:17:08
1	Cu 324.752†	285398.4	282773.1	[1000] ug/L	13:17:08
1	Mn 257.610†	640609.7	651601.6	[1000] ug/L	13:17:08
1	Mo 202.031†	10981.1	11168.8	[1000] ug/L	13:17:28
1	Ni 231.604†	31305.8	31795.7	[1000] ug/L	13:17:28
1	P 214.914†	9277.9	9222.4	[5000] ug/L	13:17:28
1	Pb 220.353†	6085.8	6255.7	[1000] ug/L	13:17:28
1	S 181.975 Axial†	1567.1	1547.8	[2000] ug/L	13:17:28
1	Sb 206.836†	2588.8	2601.0	[1000] ug/L	13:17:28
1	Se 196.026†	1653.1	1704.4	[1000] ug/L	13:17:28
1	Si 251.611†	142511.6	144517.9	[5000] ug/L	13:17:08
1	Sn 189.927†	4277.4	4347.9	[1000] ug/L	13:17:28
1	Ti 334.940†	514464.6	524763.7	[1000] ug/L	13:17:08
1	Tl 190.801†	2146.7	2216.2	[1000] ug/L	13:17:28
1	U 409.014†	28978.4	31687.0	[1000] ug/L	13:17:08
1	V 292.402†	126736.6	130599.1	[1000] ug/L	13:17:08
1	Zn 213.857†	92742.1	93639.6	[1000] ug/L	13:17:08
1	SiO2†	141365.4	143362.7	[10695] ug/L	13:18:36
2	Sc Radial	4770.4	4770.4	98.3 %	13:16:10
2	Y RADIAL	4983.9	4983.9	97.91 %	13:16:10
2	Al 396.153Radial†	10283.5	10548.4	[10000] ug/L	13:16:10
2	Ca 317.933Radial†	5665.4	5748.6	[10000] ug/L	13:16:10
2	Fe 238.204 Radial†	952.2	960.1	[10000] ug/L	13:16:30
2	K 766.490 Radial†	53292.8	52056.2	[10000] ug/L	13:16:10
2	Mg 279.077 IEC†	262.5	264.0	[10000] ug/L	13:16:30
2	Na 589.592 Radial†	28197.9	29053.4	[10000] ug/L	13:16:10
2	Sr 421.552†	135777.4	138121.2	[1000] ug/L	13:16:10
2	Sc 361.383	778705.7	778705.7	98.506 %	13:17:39
2	Y 371.029	688093.4	688093.4	97.617 %	13:17:39
2	Ag 328.068†	201910.2	204764.9	[1000] ug/L	13:17:39
2	As 188.979†	2213.5	2275.4	[1000] ug/L	13:17:59
2	B 249.677†	40309.9	41406.5	[1000] ug/L	13:17:39
2	Ba 233.527†	87252.0	88581.2	[1000] ug/L	13:17:39
2	Be 313.107†	2494357.9	2542466.3	[1000] ug/L	13:17:34
2	Cd 226.502†	71735.6	73013.6	[1000] ug/L	13:17:39
2	Co 228.616†	33532.1	34106.5	[1000] ug/L	13:17:59
2	Cr 267.716†	74727.0	75798.1	[1000] ug/L	13:17:39
2	Cu 324.752†	286688.3	283321.8	[1000] ug/L	13:17:39
2	Mn 257.610†	643676.3	653007.2	[1000] ug/L	13:17:39
2	Mo 202.031†	10985.1	11143.6	[1000] ug/L	13:17:59
2	Ni 231.604†	31344.9	31751.9	[1000] ug/L	13:17:59

2	P 214.914†	9263.0	9182.5	[5000]	ug/L	13:17:59
2	Pb 220.353†	6115.5	6269.6	[1000]	ug/L	13:17:59
2	S 181.975 Axial†	1583.3	1560.0	[2000]	ug/L	13:17:59
2	Sb 206.836†	2592.8	2598.1	[1000]	ug/L	13:17:59
2	Se 196.026†	1638.3	1685.0	[1000]	ug/L	13:17:59
2	Si 251.611†	143330.0	144968.9	[5000]	ug/L	13:17:39
2	Sn 189.927†	4297.4	4356.9	[1000]	ug/L	13:17:59
2	Ti 334.940†	516561.0	525520.5	[1000]	ug/L	13:17:39
2	Tl 190.801†	2147.1	2210.9	[1000]	ug/L	13:17:59
2	U 409.014†	28951.9	31582.8	[1000]	ug/L	13:17:39
2	V 292.402†	127291.3	130824.4	[1000]	ug/L	13:17:39
2	Zn 213.857†	93093.1	93748.8	[1000]	ug/L	13:17:39
2	SiO2†	141262.0	142880.9	[10695]	ug/L	13:18:41
3	Sc Radial	4762.1	4762.1	98.1	%	13:16:36
3	Y RADIAL	4982.4	4982.4	97.88	%	13:16:36
3	Al 396.153Radial†	10266.9	10549.7	[10000]	ug/L	13:16:36
3	Ca 317.933Radial†	5665.1	5758.3	[10000]	ug/L	13:16:36
3	Fe 238.204 Radial†	949.3	958.8	[10000]	ug/L	13:16:56
3	K 766.490 Radial†	53103.4	51957.3	[10000]	ug/L	13:16:36
3	Mg 279.077 IEC†	254.8	256.7	[10000]	ug/L	13:16:56
3	Na 589.592 Radial†	28107.4	29011.1	[10000]	ug/L	13:16:36
3	Sr 421.552†	135842.5	138427.5	[1000]	ug/L	13:16:36
3	Sc 361.383	773959.9	773959.9	97.905	%	13:18:10
3	Y 371.029	682830.1	682830.1	96.870	%	13:18:10
3	Ag 328.068†	200550.8	204633.2	[1000]	ug/L	13:18:10
3	As 188.979†	2216.9	2292.7	[1000]	ug/L	13:18:30
3	B 249.677†	40224.3	41570.0	[1000]	ug/L	13:18:10
3	Ba 233.527†	86697.2	88557.7	[1000]	ug/L	13:18:10
3	Be 313.107†	2499980.7	2563736.3	[1000]	ug/L	13:18:05
3	Cd 226.502†	71372.2	73088.9	[1000]	ug/L	13:18:10
3	Co 228.616†	33649.7	34435.5	[1000]	ug/L	13:18:30
3	Cr 267.716†	74386.8	75915.8	[1000]	ug/L	13:18:10
3	Cu 324.752†	283935.4	282294.5	[1000]	ug/L	13:18:10
3	Mn 257.610†	639694.1	652946.5	[1000]	ug/L	13:18:10
3	Mo 202.031†	11045.9	11274.1	[1000]	ug/L	13:18:30
3	Ni 231.604†	31485.6	32090.7	[1000]	ug/L	13:18:30
3	P 214.914†	9308.4	9286.6	[5000]	ug/L	13:18:30
3	Pb 220.353†	6153.5	6346.5	[1000]	ug/L	13:18:30
3	S 181.975 Axial†	1582.2	1568.8	[2000]	ug/L	13:18:30
3	Sb 206.836†	2600.3	2622.0	[1000]	ug/L	13:18:30
3	Se 196.026†	1646.1	1703.2	[1000]	ug/L	13:18:30
3	Si 251.611†	142055.1	144558.9	[5000]	ug/L	13:18:10
3	Sn 189.927†	4296.7	4382.8	[1000]	ug/L	13:18:30
3	Ti 334.940†	512820.5	524915.5	[1000]	ug/L	13:18:10
3	Tl 190.801†	2171.8	2249.5	[1000]	ug/L	13:18:30
3	U 409.014†	28837.4	31646.1	[1000]	ug/L	13:18:10
3	V 292.402†	126429.2	130736.2	[1000]	ug/L	13:18:10
3	Zn 213.857†	92574.5	93798.6	[1000]	ug/L	13:18:10
3	SiO2†	142666.8	145195.1	[10695]	ug/L	13:18:46

Mean Data: SCAL

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	776444.0	2380.68	0.31%	98.220	%
Sc Radial	4774.0	14.12	0.30%	98.4	%
Y 371.029	685855.6	2718.61	0.40%	97.300	%
Y RADIAL	4988.7	9.69	0.19%	98.00	%
Ag 328.068†	204743.2	100.89	0.05%	[1000]	ug/L
Al 396.153Radial†	10537.6	19.80	0.19%	[10000]	ug/L
As 188.979†	2280.9	10.21	0.45%	[1000]	ug/L
B 249.677†	41426.5	134.62	0.32%	[1000]	ug/L
Ba 233.527†	88515.4	94.33	0.11%	[1000]	ug/L
Be 313.107†	2548920.8	12865.93	0.50%	[1000]	ug/L
Ca 317.933Radial†	5745.9	13.98	0.24%	[10000]	ug/L
Cd 226.502†	73013.7	75.23	0.10%	[1000]	ug/L
Co 228.616†	34240.2	172.88	0.50%	[1000]	ug/L
Cr 267.716†	75787.3	134.27	0.18%	[1000]	ug/L
Cu 324.752†	282796.4	514.05	0.18%	[1000]	ug/L
Fe 238.204 Radial†	956.9	4.36	0.46%	[10000]	ug/L
K 766.490 Radial†	51970.6	79.74	0.15%	[10000]	ug/L

Mg 279.077 IEC†	260.0	3.72	1.43%	[10000]	ug/L
Mn 257.610†	652518.4	794.55	0.12%	[1000]	ug/L
Mo 202.031†	11195.5	69.21	0.62%	[1000]	ug/L
Na 589.592 Radial†	29023.9	25.64	0.09%	[10000]	ug/L
Ni 231.604†	31879.4	184.31	0.58%	[1000]	ug/L
P 214.914†	9230.5	52.49	0.57%	[5000]	ug/L
Pb 220.353†	6290.6	48.92	0.78%	[1000]	ug/L
S 181.975 Axial†	1558.9	10.53	0.68%	[2000]	ug/L
Sb 206.836†	2607.0	13.03	0.50%	[1000]	ug/L
Se 196.026†	1697.5	10.86	0.64%	[1000]	ug/L
Si 251.611†	144681.9	249.37	0.17%	[5000]	ug/L
Sn 189.927†	4362.5	18.14	0.42%	[1000]	ug/L
Sr 421.552†	138104.8	331.24	0.24%	[1000]	ug/L
Ti 334.940†	525066.6	400.37	0.08%	[1000]	ug/L
Tl 190.801†	2225.5	20.91	0.94%	[1000]	ug/L
U 409.014†	31638.6	52.51	0.17%	[1000]	ug/L
V 292.402†	130719.9	113.54	0.09%	[1000]	ug/L
Zn 213.857†	93729.0	81.29	0.09%	[1000]	ug/L
SiO2†	143812.9	1221.02	0.85%	[10695]	ug/L

Sequence No.: 5

Sample ID: S10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 3/2/2010 13:20:58

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	4686.0	4686.0	96.6 %	13:23:11
1	Y RADIAL	4879.5	4879.5	95.86 %	13:23:11
1	Al 396.153Radial†	51563.3	53491.5	[50000] ug/L	13:22:51
1	Ca 317.933Radial†	27288.9	28248.6	[50000] ug/L	13:22:51
1	Fe 238.204 Radial†	1833.0	1889.8	[20000] ug/L	13:23:11
1	Mg 279.077 IEC†	1218.1	1258.6	[50000] ug/L	13:23:11
1	Na 589.592 Radial†	56806.3	59200.7	[20000] ug/L	13:22:51
1	Sc 361.383	772328.9	772328.9	97.699 %	13:24:08
1	Y 371.029	678194.9	678194.9	96.213 %	13:24:08
2	Sc Radial	4644.5	4644.5	95.7 %	13:23:36
2	Y RADIAL	4850.9	4850.9	95.30 %	13:23:36
2	Al 396.153Radial†	51516.9	53920.0	[50000] ug/L	13:23:16
2	Ca 317.933Radial†	27280.0	28491.6	[50000] ug/L	13:23:16
2	Fe 238.204 Radial†	1828.1	1901.5	[20000] ug/L	13:23:36
2	Mg 279.077 IEC†	1212.9	1264.4	[50000] ug/L	13:23:36
2	Na 589.592 Radial†	56828.9	59749.7	[20000] ug/L	13:23:16
2	Sc 361.383	761572.7	761572.7	96.338 %	13:24:14
2	Y 371.029	668515.0	668515.0	94.840 %	13:24:14
2	Sc Radial	4675.2	4675.2	96.3 %	13:24:01
3	Y RADIAL	4896.7	4896.7	96.19 %	13:24:01
3	Al 396.153Radial†	51695.8	53751.9	[50000] ug/L	13:23:41
3	Ca 317.933Radial†	27347.8	28374.7	[50000] ug/L	13:23:41
3	Fe 238.204 Radial†	1820.0	1880.6	[20000] ug/L	13:24:01
3	Mg 279.077 IEC†	1218.1	1261.5	[50000] ug/L	13:24:01
3	Na 589.592 Radial†	56645.5	59169.0	[20000] ug/L	13:23:41
3	Sc 361.383	761606.8	761606.8	96.343 %	13:24:20
3	Y 371.029	668970.5	668970.5	94.904 %	13:24:20

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	765169.5	6200.24	0.81%	96.793 %
Sc Radial	4668.6	21.53	0.46%	96.2 %
Y 371.029	671893.5	5461.97	0.81%	95.319 %
Y RADIAL	4875.7	23.11	0.47%	95.78 %
Al 396.153Radial†	53721.1	215.89	0.40%	[50000] ug/L
Ca 317.933Radial†	28371.6	121.57	0.43%	[50000] ug/L
Fe 238.204 Radial†	1890.6	10.52	0.56%	[20000] ug/L
Mg 279.077 IEC†	1261.5	2.92	0.23%	[50000] ug/L
Na 589.592 Radial†	59373.1	326.52	0.55%	[20000] ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	204.1	0.00000	0.999980	
Al 396.153Radial	3	Lin Thru 0	0.0	1.074	0.00000	0.999993	
As 188.979	3	Lin Thru 0	0.0	2.282	0.00000	0.999998	
B 249.677	3	Lin Thru 0	0.0	41.31	0.00000	0.999980	
Ba 233.527	3	Lin Thru 0	0.0	88.41	0.00000	0.999997	
Be 313.107	3	Lin Thru 0	0.0	2550	0.00000	0.999999	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.5678	0.00000	0.999996	
Cd 226.502	3	Lin Thru 0	0.0	73.01	0.00000	0.999999	
Co 228.616	3	Lin Thru 0	0.0	34.41	0.00000	0.999952	
Cr 267.716	3	Lin Thru 0	0.0	75.71	0.00000	0.999998	
Cu 324.752	3	Lin Thru 0	0.0	281.8	0.00000	0.999978	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0948	0.00000	0.999988	
K 766.490 Radial	3	Lin Thru 0	0.0	5.219	0.00000	0.999963	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0253	0.00000	0.999976
Mn 257.610	3	Lin Thru 0	0.0	651.9	0.00000	0.999995
Mo 202.031	3	Lin Thru 0	0.0	11.20	0.00000	0.999999
Na 589.592 Radia	2	Lin Thru 0	0.0	2.955	0.00000	0.999960
Ni 231.604	3	Lin Thru 0	0.0	32.08	0.00000	0.999926
P 214.914	3	Lin Thru 0	0.0	1.845	0.00000	0.999999
Pb 220.353	3	Lin Thru 0	0.0	6.298	0.00000	0.999997
S 181.975 Axial	3	Lin Thru 0	0.0	0.7791	0.00000	0.999999
Sb 206.836	3	Lin Thru 0	0.0	2.604	0.00000	0.999998
Se 196.026	3	Lin Thru 0	0.0	1.701	0.00000	0.999993
Si 251.611	3	Lin Thru 0	0.0	28.89	0.00000	0.999996
Sn 189.927	3	Lin Thru 0	0.0	4.354	0.00000	0.999992
Sr 421.552	3	Lin Thru 0	0.0	138.8	0.00000	0.999945
Ti 334.940	3	Lin Thru 0	0.0	523.4	0.00000	0.999979
Tl 190.801	3	Lin Thru 0	0.0	2.224	0.00000	0.999999
U 409.014	3	Lin Thru 0	0.0	31.57	0.00000	0.999988
V 292.402	3	Lin Thru 0	0.0	130.5	0.00000	0.999995
Zn 213.857	3	Lin Thru 0	0.0	93.68	0.00000	0.999999
SiO2	3	Lin Thru 0	0.0	13.46	0.00000	0.999998

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 3/2/2010 13:26:32

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	4880.9	4880.9	101 %		13:28:25
1	Y RADIAL	5104.6	5104.6	100.3 %		13:28:25
1	Al 396.153Radial†	5314.1	5370.1	4976.2 ug/L	4976.2 ppb	13:28:25
1	Ca 317.933Radial†	2849.4	2818.0	4963.2 ug/L	4963.2 ppb	13:28:45
1	Fe 238.204 Radial†	489.0	477.5	5054.4 ug/L	5054.4 ppb	13:28:45
1	K 766.490 Radial†	15327.4	13076.7	2502.3 ug/L	2502.3 ppb	13:28:25
1	Mg 279.077 IEC†	133.4	129.6	5130.1 ug/L	5130.1 ppb	13:28:45
1	Na 589.592 Radial†	6789.6	7116.0	2407.8 ug/L	2407.8 ppb	13:28:25
1	Sr 421.552†	73343.9	72911.2	525.12 ug/L	525.12 ppb	13:28:25
1	Sc 361.383	797675.5	797675.5	100.91 %		13:29:42
1	Y 371.029	705080.4	705080.4	100.03 %		13:29:42
1	Ag 328.068†	51524.8	50854.4	252.32 ug/L	252.32 ppb	13:29:42
1	As 188.979†	1078.2	1096.8	484.88 ug/L	484.88 ppb	13:30:02
1	B 249.677†	21253.9	21548.3	519.35 ug/L	519.35 ppb	13:29:42
1	Ba 233.527†	45426.4	45024.5	510.51 ug/L	510.51 ppb	13:29:42
1	Be 313.107†	659336.9	663692.7	261.37 ug/L	261.37 ppb	13:29:42
1	Cd 226.502†	35961.7	35828.9	490.60 ug/L	490.60 ppb	13:30:02
1	Co 228.616†	17784.5	17690.7	514.23 ug/L	514.23 ppb	13:30:02
1	Cr 267.716†	37341.3	36943.8	488.57 ug/L	488.57 ppb	13:29:42
1	Cu 324.752†	150990.4	141920.3	503.55 ug/L	503.55 ppb	13:29:42
1	Mn 257.610†	339570.3	336090.3	515.81 ug/L	515.81 ppb	13:29:42
1	Mo 202.031†	5990.8	5928.9	529.92 ug/L	529.92 ppb	13:30:02
1	Ni 231.604†	16438.5	16222.5	505.43 ug/L	505.43 ppb	13:30:02
1	P 214.914†	4930.1	4664.9	2429.9 ug/L	2429.9 ppb	13:30:02
1	Pb 220.353†	3131.7	3164.9	504.45 ug/L	504.45 ppb	13:30:02
1	S 181.975 Axial†	1987.9	1922.8	2467.0 ug/L	2467.0 ppb	13:30:02
1	Sb 206.836†	1345.8	1299.8	518.13 ug/L	518.13 ppb	13:30:02
1	Se 196.026†	4355.3	4338.0	2563.9 ug/L	2563.9 ppb	13:30:02
1	Si 251.611†	142140.1	140329.3	4850.4 ug/L	4850.4 ppb	13:29:42
1	Sn 189.927†	2334.3	2307.6	530.62 ug/L	530.62 ppb	13:30:02
1	Ti 334.940†	260965.7	259748.0	496.11 ug/L	496.11 ppb	13:29:42
1	Tl 190.801†	1149.4	1170.4	529.60 ug/L	529.60 ppb	13:30:02
1	U 409.014†	12938.0	15013.7	473.84 ug/L	473.84 ppb	13:29:42
1	V 292.402†	64841.9	65862.3	511.71 ug/L	511.71 ppb	13:29:42
1	Zn 213.857†	48837.4	47642.7	503.89 ug/L	503.89 ppb	13:29:42
1	SiO2†	141808.0	140011.6	10387 ug/L	10387 ppb	13:31:00
2	Sc Radial	4761.6	4761.6	98.1 %		13:28:50
2	Y RADIAL	4978.8	4978.8	97.81 %		13:28:50
2	Al 396.153Radial†	5253.5	5440.6	5041.8 ug/L	5041.8 ppb	13:28:50
2	Ca 317.933Radial†	2864.7	2904.5	5115.6 ug/L	5115.6 ppb	13:29:10
2	Fe 238.204 Radial†	490.1	490.8	5195.0 ug/L	5195.0 ppb	13:29:10
2	K 766.490 Radial†	15046.5	13172.1	2520.5 ug/L	2520.5 ppb	13:28:50
2	Mg 279.077 IEC†	137.6	137.2	5429.1 ug/L	5429.1 ppb	13:29:10
2	Na 589.592 Radial†	6570.9	7062.2	2389.6 ug/L	2389.6 ppb	13:28:50
2	Sr 421.552†	71654.2	73015.2	525.87 ug/L	525.87 ppb	13:28:50
2	Sc 361.383	799629.9	799629.9	101.15 %		13:30:08
2	Y 371.029	707682.9	707682.9	100.40 %		13:30:08
2	Ag 328.068†	51817.3	51018.8	253.16 ug/L	253.16 ppb	13:30:08
2	As 188.979†	1080.6	1096.6	484.83 ug/L	484.83 ppb	13:30:28
2	B 249.677†	21395.2	21636.6	521.46 ug/L	521.46 ppb	13:30:08
2	Ba 233.527†	45423.5	44911.5	509.24 ug/L	509.24 ppb	13:30:08
2	Be 313.107†	658934.1	661697.5	260.59 ug/L	260.59 ppb	13:30:08
2	Cd 226.502†	35975.9	35755.7	489.59 ug/L	489.59 ppb	13:30:28
2	Co 228.616†	17850.1	17712.5	514.87 ug/L	514.87 ppb	13:30:28
2	Cr 267.716†	37393.7	36905.2	488.06 ug/L	488.06 ppb	13:30:08
2	Cu 324.752†	152141.9	142692.9	506.29 ug/L	506.29 ppb	13:30:08
2	Mn 257.610†	339954.5	335647.6	515.13 ug/L	515.13 ppb	13:30:08
2	Mo 202.031†	6028.7	5951.9	531.99 ug/L	531.99 ppb	13:30:28
2	Ni 231.604†	16497.2	16240.8	505.99 ug/L	505.99 ppb	13:30:28

2	P 214.914†	4930.1	4652.9	2422.8 ug/L	2422.8 ppb	13:30:28
2	Pb 220.353†	3139.5	3165.1	504.48 ug/L	504.48 ppb	13:30:28
2	S 181.975 Axial†	2000.5	1930.4	2476.8 ug/L	2476.8 ppb	13:30:28
2	Sb 206.836†	1359.4	1309.9	522.10 ug/L	522.10 ppb	13:30:28
2	Se 196.026†	4374.0	4346.0	2568.9 ug/L	2568.9 ppb	13:30:28
2	Si 251.611†	142124.1	139969.2	4837.9 ug/L	4837.9 ppb	13:30:08
2	Sn 189.927†	2350.7	2318.2	533.07 ug/L	533.07 ppb	13:30:28
2	Ti 334.940†	261658.9	259801.1	496.20 ug/L	496.20 ppb	13:30:08
2	Tl 190.801†	1156.6	1174.6	531.50 ug/L	531.50 ppb	13:30:28
2	U 409.014†	13017.6	15061.0	475.32 ug/L	475.32 ppb	13:30:08
2	V 292.402†	64972.0	65833.9	511.51 ug/L	511.51 ppb	13:30:08
2	Zn 213.857†	48846.3	47533.2	502.69 ug/L	502.69 ppb	13:30:08
2	SiO2†	143816.7	141654.0	10509 ug/L	10509 ppb	13:31:05
3	Sc Radial	4859.9	4859.9	100 %		13:29:15
3	Y RADIAL	5109.5	5109.5	100.4 %		13:29:15
3	Al 396.153Radial†	5370.0	5448.6	5049.1 ug/L	5049.1 ppb	13:29:15
3	Ca 317.933Radial†	2873.2	2853.9	5026.5 ug/L	5026.5 ppb	13:29:35
3	Fe 238.204 Radial†	493.9	484.5	5128.4 ug/L	5128.4 ppb	13:29:35
3	K 766.490 Radial†	15390.8	13205.7	2527.0 ug/L	2527.0 ppb	13:29:15
3	Mg 279.077 IEC†	134.6	131.4	5198.4 ug/L	5198.4 ppb	13:29:35
3	Na 589.592 Radial†	6706.7	7062.3	2389.6 ug/L	2389.6 ppb	13:29:15
3	Sr 421.552†	73345.2	73226.6	527.39 ug/L	527.39 ppb	13:29:15
3	Sc 361.383	789532.1	789532.1	99.875 %		13:30:34
3	Y 371.029	699180.5	699180.5	99.190 %		13:30:34
3	Ag 328.068†	50897.7	50753.2	251.84 ug/L	251.84 ppb	13:30:34
3	As 188.979†	1077.6	1107.2	489.42 ug/L	489.42 ppb	13:30:55
3	B 249.677†	21005.5	21516.9	518.56 ug/L	518.56 ppb	13:30:34
3	Ba 233.527†	44782.3	44843.9	508.47 ug/L	508.47 ppb	13:30:34
3	Be 313.107†	651502.4	662587.9	260.93 ug/L	260.93 ppb	13:30:34
3	Cd 226.502†	35900.4	36135.0	494.79 ug/L	494.79 ppb	13:30:55
3	Co 228.616†	17784.5	17872.6	519.54 ug/L	519.54 ppb	13:30:55
3	Cr 267.716†	36842.9	36826.5	487.02 ug/L	487.02 ppb	13:30:34
3	Cu 324.752†	149190.8	141661.8	502.63 ug/L	502.63 ppb	13:30:34
3	Mn 257.610†	335140.1	335125.5	514.33 ug/L	514.33 ppb	13:30:34
3	Mo 202.031†	6011.2	6010.5	537.22 ug/L	537.22 ppb	13:30:55
3	Ni 231.604†	16447.6	16399.6	510.94 ug/L	510.94 ppb	13:30:55
3	P 214.914†	4928.1	4713.2	2456.3 ug/L	2456.3 ppb	13:30:55
3	Pb 220.353†	3133.5	3198.8	509.86 ug/L	509.86 ppb	13:30:55
3	S 181.975 Axial†	2000.4	1955.6	2509.1 ug/L	2509.1 ppb	13:30:55
3	Sb 206.836†	1340.5	1308.1	521.58 ug/L	521.58 ppb	13:30:55
3	Se 196.026†	4369.8	4397.1	2598.8 ug/L	2598.8 ppb	13:30:55
3	Si 251.611†	140100.5	139740.1	4829.9 ug/L	4829.9 ppb	13:30:34
3	Sn 189.927†	2333.1	2330.2	535.83 ug/L	535.83 ppb	13:30:55
3	Ti 334.940†	257540.1	258985.5	494.65 ug/L	494.65 ppb	13:30:34
3	Tl 190.801†	1151.1	1183.8	535.59 ug/L	535.59 ppb	13:30:55
3	U 409.014†	12733.1	14940.7	471.52 ug/L	471.52 ppb	13:30:34
3	V 292.402†	64035.1	65717.3	510.69 ug/L	510.69 ppb	13:30:34
3	Zn 213.857†	48171.1	47474.8	502.05 ug/L	502.05 ppb	13:30:34
3	SiO2†	141759.8	141412.9	10491 ug/L	10491 ppb	13:31:10

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	795612.5	100.64 %	0.677			0.67%
Sc Radial	4834.1	99.6 %	1.31			1.32%
Y 371.029	703981.3	99.871 %	0.6180			0.62%
Y RADIAL	5064.3	99.49 %	1.455			1.46%
Ag 328.068†	50875.5	252.44 ug/L	0.669	252.44 ppb	0.669	0.27%
QC value within limits for Ag 328.068 Recovery = 100.98%						
Al 396.153Radial†	5419.8	5022.4 ug/L	40.12	5022.4 ppb	40.12	0.80%
QC value within limits for Al 396.153Radial Recovery = 100.45%						
As 188.979†	1100.2	486.38 ug/L	2.638	486.38 ppb	2.638	0.54%
QC value within limits for As 188.979 Recovery = 97.28%						
B 249.677†	21567.3	519.79 ug/L	1.499	519.79 ppb	1.499	0.29%
QC value within limits for B 249.677 Recovery = 103.96%						
Ba 233.527†	44926.6	509.40 ug/L	1.032	509.40 ppb	1.032	0.20%
QC value within limits for Ba 233.527 Recovery = 101.88%						
Be 313.107†	662659.3	260.96 ug/L	0.392	260.96 ppb	0.392	0.15%
QC value within limits for Be 313.107 Recovery = 104.39%						
Ca 317.933Radial†	2858.8	5035.1 ug/L	76.54	5035.1 ppb	76.54	1.52%

QC value within limits for Ca 317.933 Radial Recovery = 100.70%							
Cd	226.502†	35906.5	491.66 ug/L	2.758	491.66 ppb	2.758	0.56%
QC value within limits for Cd 226.502 Recovery = 98.33%							
Co	228.616†	17758.6	516.21 ug/L	2.896	516.21 ppb	2.896	0.56%
QC value within limits for Co 228.616 Recovery = 103.24%							
Cr	267.716†	36891.8	487.88 ug/L	0.790	487.88 ppb	0.790	0.16%
QC value within limits for Cr 267.716 Recovery = 97.58%							
Cu	324.752†	142091.7	504.16 ug/L	1.905	504.16 ppb	1.905	0.38%
QC value within limits for Cu 324.752 Recovery = 100.83%							
Fe	238.204 Radial†	484.3	5126.0 ug/L	70.32	5126.0 ppb	70.32	1.37%
QC value within limits for Fe 238.204 Radial Recovery = 102.52%							
K	766.490 Radial†	13151.5	2516.6 ug/L	12.81	2516.6 ppb	12.81	0.51%
QC value within limits for K 766.490 Radial Recovery = 100.66%							
Mg	279.077 IEC†	132.7	5252.5 ug/L	156.64	5252.5 ppb	156.64	2.98%
QC value within limits for Mg 279.077 IEC Recovery = 105.05%							
Mn	257.610†	335621.2	515.09 ug/L	0.738	515.09 ppb	0.738	0.14%
QC value within limits for Mn 257.610 Recovery = 103.02%							
Mo	202.031†	5963.8	533.04 ug/L	3.761	533.04 ppb	3.761	0.71%
QC value within limits for Mo 202.031 Recovery = 106.61%							
Na	589.592 Radial†	7080.2	2395.7 ug/L	10.51	2395.7 ppb	10.51	0.44%
QC value within limits for Na 589.592 Radial Recovery = 95.83%							
Ni	231.604†	16287.6	507.45 ug/L	3.035	507.45 ppb	3.035	0.60%
QC value within limits for Ni 231.604 Recovery = 101.49%							
P	214.914†	4677.0	2436.3 ug/L	17.64	2436.3 ppb	17.64	0.72%
QC value within limits for P 214.914 Recovery = 97.45%							
Pb	220.353†	3176.3	506.26 ug/L	3.113	506.26 ppb	3.113	0.61%
QC value within limits for Pb 220.353 Recovery = 101.25%							
S	181.975 Axial†	1936.3	2484.3 ug/L	22.04	2484.3 ppb	22.04	0.89%
QC value within limits for S 181.975 Axial Recovery = 99.37%							
Sb	206.836†	1305.9	520.60 ug/L	2.159	520.60 ppb	2.159	0.41%
QC value within limits for Sb 206.836 Recovery = 104.12%							
Se	196.026†	4360.4	2577.2 ug/L	18.88	2577.2 ppb	18.88	0.73%
QC value within limits for Se 196.026 Recovery = 103.09%							
Si	251.611†	140012.9	4839.4 ug/L	10.32	4839.4 ppb	10.32	0.21%
QC value within limits for Si 251.611 Recovery = 96.79%							
Sn	189.927†	2318.7	533.17 ug/L	2.604	533.17 ppb	2.604	0.49%
QC value within limits for Sn 189.927 Recovery = 106.63%							
Sr	421.552†	73051.0	526.13 ug/L	1.157	526.13 ppb	1.157	0.22%
QC value within limits for Sr 421.552 Recovery = 105.23%							
Ti	334.940†	259511.5	495.65 ug/L	0.868	495.65 ppb	0.868	0.18%
QC value within limits for Ti 334.940 Recovery = 99.13%							
Tl	190.801†	1176.3	532.23 ug/L	3.062	532.23 ppb	3.062	0.58%
QC value within limits for Tl 190.801 Recovery = 106.45%							
U	409.014†	15005.1	473.56 ug/L	1.915	473.56 ppb	1.915	0.40%
QC value within limits for U 409.014 Recovery = 94.71%							
V	292.402†	65804.5	511.30 ug/L	0.540	511.30 ppb	0.540	0.11%
QC value within limits for V 292.402 Recovery = 102.26%							
Zn	213.857†	47550.3	502.88 ug/L	0.933	502.88 ppb	0.933	0.19%
QC value within limits for Zn 213.857 Recovery = 100.58%							
SiO2†	141026.2		10462 ug/L	65.8	10462 ppb	65.8	0.63%
QC value within limits for SiO2 Recovery = 97.82%							
All analyte(s) passed QC.							

Sequence No.: 7
 Sample ID: ICB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 10
 Date Collected: 3/2/2010 13:33:21
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4788.4	4788.4	98.7 %		13:35:14
1	Y RADIAL	5055.4	5055.4	99.31 %		13:35:14
1	Al 396.153Radial†	-81.7	3.0	2.8174 ug/L	2.8174 ppb	13:35:34
1	Ca 317.933Radial†	15.8	0.7	1.1858 ug/L	1.1858 ppb	13:35:34
1	Fe 238.204 Radial†	7.8	-0.9	-9.3499 ug/L	-9.3499 ppb	13:35:34
1	K 766.490 Radial†	2098.7	-37.3	-7.1527 ug/L	-7.1527 ppb	13:35:14
1	Mg 279.077 IEC†	4.4	1.4	54.602 ug/L	54.602 ppb	13:35:34
1	Na 589.592 Radial†	-315.9	44.4	15.025 ug/L	15.025 ppb	13:35:14
1	Sr 421.552†	5.6	-14.6	-0.1053 ug/L	-0.1053 ppb	13:35:14
1	Sc 361.383	772617.4	772617.4	97.736 %		13:36:31
1	Y 371.029	689182.5	689182.5	97.772 %		13:36:31
1	Ag 328.068†	221.7	18.8	0.0901 ug/L	0.0901 ppb	13:36:31
1	As 188.979†	-27.9	-0.3	-0.1247 ug/L	-0.1247 ppb	13:36:51
1	B 249.677†	-87.0	396.1	9.5921 ug/L	9.5921 ppb	13:36:51
1	Ba 233.527†	-10.2	-4.8	-0.0547 ug/L	-0.0547 ppb	13:36:51
1	Be 313.107†	-10376.8	-344.9	-0.1353 ug/L	-0.1353 ppb	13:36:31
1	Cd 226.502†	-185.9	-0.4	-0.0048 ug/L	-0.0048 ppb	13:36:51
1	Co 228.616†	-73.4	-9.2	-0.2673 ug/L	-0.2673 ppb	13:36:51
1	Cr 267.716†	49.0	-12.3	-0.1621 ug/L	-0.1621 ppb	13:36:51
1	Cu 324.752†	7768.4	233.1	0.8276 ug/L	0.8276 ppb	13:36:31
1	Mn 257.610†	424.1	1.0	-0.0016 ug/L	-0.0016 ppb	13:36:51
1	Mo 202.031†	9.6	1.7	0.1505 ug/L	0.1505 ppb	13:36:51
1	Ni 231.604†	67.4	0.4	0.0141 ug/L	0.0141 ppb	13:36:51
1	P 214.914†	210.1	-6.0	-3.4204 ug/L	-3.4204 ppb	13:36:51
1	Pb 220.353†	-57.2	2.8	0.4520 ug/L	0.4520 ppb	13:36:51
1	S 181.975 Axial†	51.8	5.7	7.3663 ug/L	7.3663 ppb	13:36:51
1	Sb 206.836†	39.1	6.0	2.3129 ug/L	2.3129 ppb	13:36:51
1	Se 196.026†	-9.1	12.5	7.3305 ug/L	7.3305 ppb	13:36:51
1	Si 251.611†	557.9	35.6	1.2290 ug/L	1.2290 ppb	13:36:51
1	Sn 189.927†	6.9	1.3	0.3070 ug/L	0.3070 ppb	13:36:51
1	Ti 334.940†	-1103.4	-5.0	-0.0131 ug/L	-0.0131 ppb	13:36:31
1	Tl 190.801†	-34.7	-4.2	-1.8961 ug/L	-1.8961 ppb	13:36:51
1	U 409.014†	-2195.9	-55.0	-1.7407 ug/L	-1.7407 ppb	13:36:31
1	V 292.402†	-1584.7	-19.2	-0.1458 ug/L	-0.1458 ppb	13:36:31
1	Zn 213.857†	725.4	-14.3	-0.1521 ug/L	-0.1521 ppb	13:36:51
1	SiO2†	551.9	40.8	3.0306 ug/L	3.0306 ppb	13:37:47
2	Sc Radial	4921.1	4921.1	101 %		13:35:39
2	Y RADIAL	5169.3	5169.3	101.5 %		13:35:39
2	Al 396.153Radial†	-81.8	5.2	4.8036 ug/L	4.8036 ppb	13:35:59
2	Ca 317.933Radial†	15.5	-0.1	-0.1930 ug/L	-0.1930 ppb	13:35:59
2	Fe 238.204 Radial†	7.4	-1.4	-15.012 ug/L	-15.012 ppb	13:35:59
2	K 766.490 Radial†	2212.8	17.9	3.4248 ug/L	3.4248 ppb	13:35:39
2	Mg 279.077 IEC†	1.2	-1.9	-74.493 ug/L	-74.493 ppb	13:35:59
2	Na 589.592 Radial†	-355.8	13.7	4.6317 ug/L	4.6317 ppb	13:35:39
2	Sr 421.552†	-11.5	-31.6	-0.2277 ug/L	-0.2277 ppb	13:35:39
2	Sc 361.383	772821.3	772821.3	97.761 %		13:36:56
2	Y 371.029	689576.8	689576.8	97.828 %		13:36:56
2	Ag 328.068†	154.5	-50.0	-0.2566 ug/L	-0.2566 ppb	13:36:56
2	As 188.979†	-21.6	6.3	2.7339 ug/L	2.7339 ppb	13:37:16
2	B 249.677†	-112.6	370.0	8.9583 ug/L	8.9583 ppb	13:37:16
2	Ba 233.527†	-6.1	-0.6	-0.0090 ug/L	-0.0090 ppb	13:37:16
2	Be 313.107†	-10285.2	-248.4	-0.0979 ug/L	-0.0979 ppb	13:36:56
2	Cd 226.502†	-185.9	-0.3	-0.0011 ug/L	-0.0011 ppb	13:37:16
2	Co 228.616†	-58.2	6.3	0.1851 ug/L	0.1851 ppb	13:37:16
2	Cr 267.716†	59.0	-2.1	-0.0309 ug/L	-0.0309 ppb	13:37:16
2	Cu 324.752†	7776.7	239.5	0.8464 ug/L	0.8464 ppb	13:36:56
2	Mn 257.610†	419.8	-3.5	-0.0037 ug/L	-0.0037 ppb	13:37:16
2	Mo 202.031†	12.8	5.0	0.4461 ug/L	0.4461 ppb	13:37:16
2	Ni 231.604†	99.5	33.3	1.0391 ug/L	1.0391 ppb	13:37:16

2	P 214.914†	208.7	-7.5	-4.2051 ug/L	-4.2051 ppb	13:37:16
2	Pb 220.353†	-44.9	15.4	2.4498 ug/L	2.4498 ppb	13:37:16
2	S 181.975 Axial†	38.3	-8.1	-10.345 ug/L	-10.345 ppb	13:37:16
2	Sb 206.836†	40.0	6.9	2.6766 ug/L	2.6766 ppb	13:37:16
2	Se 196.026†	-12.0	9.6	5.6053 ug/L	5.6053 ppb	13:37:16
2	Si 251.611†	548.5	25.7	0.8850 ug/L	0.8850 ppb	13:37:16
2	Sn 189.927†	11.8	6.4	1.4613 ug/L	1.4613 ppb	13:37:16
2	Ti 334.940†	-1207.5	-111.1	-0.2082 ug/L	-0.2082 ppb	13:36:56
2	Tl 190.801†	-28.1	2.5	1.1410 ug/L	1.1410 ppb	13:37:16
2	U 409.014†	-2003.7	142.2	4.5047 ug/L	4.5047 ppb	13:36:56
2	V 292.402†	-1665.7	-101.6	-0.7625 ug/L	-0.7625 ppb	13:36:56
2	Zn 213.857†	709.4	-30.8	-0.3342 ug/L	-0.3342 ppb	13:37:16
2	SiO2†	552.0	40.8	3.0219 ug/L	3.0219 ppb	13:37:52
3	Sc Radial	4803.3	4803.3	99.0 %		13:36:04
3	Y RADIAL	5086.8	5086.8	99.93 %		13:36:04
3	Al 396.153Radial†	-76.4	8.7	8.0552 ug/L	8.0552 ppb	13:36:24
3	Ca 317.933Radial†	14.3	-1.0	-1.6882 ug/L	-1.6882 ppb	13:36:24
3	Fe 238.204 Radial†	5.2	-3.5	-36.987 ug/L	-36.987 ppb	13:36:24
3	K 766.490 Radial†	2107.0	-35.5	-6.7983 ug/L	-6.7983 ppb	13:36:04
3	Mg 279.077 IEC†	1.4	-1.6	-64.227 ug/L	-64.227 ppb	13:36:24
3	Na 589.592 Radial†	-347.9	13.1	4.4228 ug/L	4.4228 ppb	13:36:04
3	Sr 421.552†	7.0	-13.3	-0.0955 ug/L	-0.0955 ppb	13:36:04
3	Sc 361.383	773696.2	773696.2	97.872 %		13:37:22
3	Y 371.029	690464.5	690464.5	97.954 %		13:37:22
3	Ag 328.068†	154.0	-50.7	-0.2623 ug/L	-0.2623 ppb	13:37:22
3	As 188.979†	-30.5	-2.8	-1.2416 ug/L	-1.2416 ppb	13:37:42
3	B 249.677†	-148.6	333.3	8.0747 ug/L	8.0747 ppb	13:37:42
3	Ba 233.527†	-16.2	-10.9	-0.1247 ug/L	-0.1247 ppb	13:37:42
3	Be 313.107†	-10211.5	-161.2	-0.0639 ug/L	-0.0639 ppb	13:37:22
3	Cd 226.502†	-175.0	11.1	0.1558 ug/L	0.1558 ppb	13:37:42
3	Co 228.616†	-62.8	1.7	0.0514 ug/L	0.0514 ppb	13:37:42
3	Cr 267.716†	58.5	-2.7	-0.0371 ug/L	-0.0371 ppb	13:37:42
3	Cu 324.752†	7764.0	217.6	0.7684 ug/L	0.7684 ppb	13:37:22
3	Mn 257.610†	400.1	-24.1	-0.0380 ug/L	-0.0380 ppb	13:37:42
3	Mo 202.031†	13.6	5.8	0.5140 ug/L	0.5140 ppb	13:37:42
3	Ni 231.604†	67.4	0.4	0.0113 ug/L	0.0113 ppb	13:37:42
3	P 214.914†	210.2	-6.2	-3.4857 ug/L	-3.4857 ppb	13:37:42
3	Pb 220.353†	-56.7	3.4	0.5428 ug/L	0.5428 ppb	13:37:42
3	S 181.975 Axial†	44.0	-2.3	-2.8944 ug/L	-2.8944 ppb	13:37:42
3	Sb 206.836†	27.3	-6.1	-2.3254 ug/L	-2.3254 ppb	13:37:42
3	Se 196.026†	-22.0	-0.6	-0.4498 ug/L	-0.4498 ppb	13:37:42
3	Si 251.611†	561.2	38.1	1.3125 ug/L	1.3125 ppb	13:37:42
3	Sn 189.927†	5.9	0.2	0.0582 ug/L	0.0582 ppb	13:37:42
3	Ti 334.940†	-1241.9	-144.9	-0.2730 ug/L	-0.2730 ppb	13:37:22
3	Tl 190.801†	-34.1	-3.6	-1.6266 ug/L	-1.6266 ppb	13:37:42
3	U 409.014†	-2061.9	85.0	2.6964 ug/L	2.6964 ppb	13:37:22
3	V 292.402†	-1584.3	-16.5	-0.1096 ug/L	-0.1096 ppb	13:37:22
3	Zn 213.857†	713.4	-27.6	-0.2898 ug/L	-0.2898 ppb	13:37:42
3	SiO2†	567.3	55.7	4.1270 ug/L	4.1270 ppb	13:37:57

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	773044.9	97.790 %	0.0725			0.07%
Sc Radial	4837.6	99.7 %	1.50			1.50%
Y 371.029	689741.3	97.851 %	0.0932			0.10%
Y RADIAL	5103.8	100.3 %	1.16			1.15%
Ag 328.068†	-27.3	-0.1429 ug/L	0.20187	-0.1429 ppb	0.20187	141.24%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	5.6	5.2254 ug/L	2.64426	5.2254 ppb	2.64426	50.60%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.1	0.4559 ug/L	2.05038	0.4559 ppb	2.05038	449.76%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	366.5	8.8751 ug/L	0.76211	8.8751 ppb	0.76211	8.59%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-5.4	-0.0628 ug/L	0.05824	-0.0628 ppb	0.05824	92.74%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-251.5	-0.0990 ug/L	0.03571	-0.0990 ppb	0.03571	36.07%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.1	-0.2318 ug/L	1.43738	-0.2318 ppb	1.43738	620.16%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	3.5	0.0500 ug/L	0.09166	0.0500 ppb	0.09166	183.47%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-0.4	-0.0103 ug/L	0.23242	-0.0103 ppb	0.23242	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-5.7	-0.0767 ug/L	0.07398	-0.0767 ppb	0.07398	96.45%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	230.0	0.8141 ug/L	0.04069	0.8141 ppb	0.04069	5.00%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-1.9	-20.450 ug/L	14.5991	-20.450 ppb	14.5991	71.39%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-18.3	-3.5087 ug/L	6.00724	-3.5087 ppb	6.00724	171.21%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-0.7	-28.039 ug/L	71.7535	-28.039 ppb	71.7535	255.90%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-8.8	-0.0144 ug/L	0.02039	-0.0144 ppb	0.02039	141.21%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	4.2	0.3702 ug/L	0.19328	0.3702 ppb	0.19328	52.21%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	23.7	8.0265 ug/L	6.06177	8.0265 ppb	6.06177	75.52%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	11.4	0.3549 ug/L	0.59259	0.3549 ppb	0.59259	166.99%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-6.6	-3.7037 ug/L	0.43542	-3.7037 ppb	0.43542	11.76%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	7.2	1.1482 ug/L	1.12812	1.1482 ppb	1.12812	98.25%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-1.5	-1.9577 ug/L	8.89272	-1.9577 ppb	8.89272	454.25%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	2.3	0.8880 ug/L	2.78887	0.8880 ppb	2.78887	314.04%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	7.2	4.1620 ug/L	4.08603	4.1620 ppb	4.08603	98.17%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	33.1	1.1421 ug/L	0.22659	1.1421 ppb	0.22659	19.84%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	2.6	0.6088 ug/L	0.74869	0.6088 ppb	0.74869	122.97%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-19.8	-0.1429 ug/L	0.07366	-0.1429 ppb	0.07366	51.56%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-87.0	-0.1648 ug/L	0.13531	-0.1648 ppb	0.13531	82.12%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-1.8	-0.7939 ug/L	1.68106	-0.7939 ppb	1.68106	211.75%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	57.4	1.8201 ug/L	3.21363	1.8201 ppb	3.21363	176.56%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-45.8	-0.3393 ug/L	0.36696	-0.3393 ppb	0.36696	108.15%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-24.2	-0.2587 ug/L	0.09496	-0.2587 ppb	0.09496	36.71%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	45.8	3.3932 ug/L	0.63550	3.3932 ppb	0.63550	18.73%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

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

Autosampler Location: 11
 Date Collected: 3/2/2010 13:40:09
 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	4834.8	4834.8	99.6 %		13:42:02
1	Y RADIAL	5084.4	5084.4	99.88 %		13:42:02
1	Al 396.153Radial†	142.5	228.9	212.73 ug/L	212.73 ppb	13:42:22
1	Ca 317.933Radial†	138.9	124.1	218.48 ug/L	218.48 ppb	13:42:22
1	Fe 238.204 Radial†	17.5	8.8	93.386 ug/L	93.386 ppb	13:42:22
1	K 766.490 Radial†	2930.9	777.7	148.82 ug/L	148.82 ppb	13:42:02
1	Mg 279.077 IEC†	8.0	5.0	196.04 ug/L	196.04 ppb	13:42:22
1	Na 589.592 Radial†	520.5	887.1	300.15 ug/L	300.15 ppb	13:42:02
1	Sr 421.552†	685.5	667.8	4.8087 ug/L	4.8087 ppb	13:42:02
1	Sc 361.383	786212.6	786212.6	99.455 %		13:43:19
1	Y 371.029	700846.0	700846.0	99.426 %		13:43:19
1	Ag 328.068†	1077.9	875.7	4.2912 ug/L	4.2912 ppb	13:43:19
1	As 188.979†	36.1	64.6	28.351 ug/L	28.351 ppb	13:43:39
1	B 249.677†	1763.6	2258.4	54.642 ug/L	54.642 ppb	13:43:19
1	Ba 233.527†	432.9	441.0	5.0011 ug/L	5.0011 ppb	13:43:39
1	Be 313.107†	2473.9	12759.8	5.0147 ug/L	5.0147 ppb	13:43:19
1	Cd 226.502†	180.4	371.2	5.0882 ug/L	5.0882 ppb	13:43:39
1	Co 228.616†	108.7	175.2	5.1022 ug/L	5.1022 ppb	13:43:39
1	Cr 267.716†	421.4	361.3	4.7589 ug/L	4.7589 ppb	13:43:39
1	Cu 324.752†	10690.4	3033.7	10.738 ug/L	10.738 ppb	13:43:19
1	Mn 257.610†	7353.0	6960.4	10.677 ug/L	10.677 ppb	13:43:19
1	Mo 202.031†	121.1	113.7	10.160 ug/L	10.160 ppb	13:43:39
1	Ni 231.604†	235.6	168.4	5.2481 ug/L	5.2481 ppb	13:43:39
1	P 214.914†	486.1	267.8	143.06 ug/L	143.06 ppb	13:43:39
1	Pb 220.353†	14.5	75.9	12.115 ug/L	12.115 ppb	13:43:39
1	S 181.975 Axial†	117.4	70.8	90.771 ug/L	90.771 ppb	13:43:39
1	Sb 206.836†	53.3	19.6	7.9030 ug/L	7.9030 ppb	13:43:39
1	Se 196.026†	32.5	54.5	32.300 ug/L	32.300 ppb	13:43:39
1	Si 251.611†	3263.6	2746.2	94.924 ug/L	94.924 ppb	13:43:39
1	Sn 189.927†	51.8	46.3	10.677 ug/L	10.677 ppb	13:43:39
1	Ti 334.940†	1489.2	2621.3	4.9952 ug/L	4.9952 ppb	13:43:19
1	Tl 190.801†	12.7	44.0	19.834 ug/L	19.834 ppb	13:43:39
1	U 409.014†	-437.5	1751.8	55.462 ug/L	55.462 ppb	13:43:19
1	V 292.402†	-961.7	635.3	5.1006 ug/L	5.1006 ppb	13:43:19
1	Zn 213.857†	1582.3	834.5	8.8455 ug/L	8.8455 ppb	13:43:39
1	SiO2†	3383.1	2877.8	213.51 ug/L	213.51 ppb	13:44:35
2	Sc Radial	4768.6	4768.6	98.3 %		13:42:27
2	Y RADIAL	5036.0	5036.0	98.93 %		13:42:27
2	Al 396.153Radial†	137.6	225.9	209.90 ug/L	209.90 ppb	13:42:47
2	Ca 317.933Radial†	138.3	125.4	220.88 ug/L	220.88 ppb	13:42:47
2	Fe 238.204 Radial†	16.4	8.0	84.311 ug/L	84.311 ppb	13:42:47
2	K 766.490 Radial†	2926.8	814.4	155.84 ug/L	155.84 ppb	13:42:27
2	Mg 279.077 IEC†	10.1	7.2	285.07 ug/L	285.07 ppb	13:42:47
2	Na 589.592 Radial†	498.3	871.8	294.97 ug/L	294.97 ppb	13:42:27
2	Sr 421.552†	689.6	681.6	4.9074 ug/L	4.9074 ppb	13:42:27
2	Sc 361.383	777226.4	777226.4	98.319 %		13:43:44
2	Y 371.029	693603.3	693603.3	98.399 %		13:43:44
2	Ag 328.068†	1109.7	920.6	4.5138 ug/L	4.5138 ppb	13:43:44
2	As 188.979†	42.5	71.6	31.399 ug/L	31.399 ppb	13:44:04
2	B 249.677†	1754.8	2270.0	54.922 ug/L	54.922 ppb	13:43:44
2	Ba 233.527†	439.6	452.8	5.1340 ug/L	5.1340 ppb	13:44:04
2	Be 313.107†	2171.1	12480.5	4.9054 ug/L	4.9054 ppb	13:43:44
2	Cd 226.502†	173.7	366.5	5.0243 ug/L	5.0243 ppb	13:44:04
2	Co 228.616†	115.6	183.4	5.3444 ug/L	5.3444 ppb	13:44:04
2	Cr 267.716†	426.1	371.0	4.8897 ug/L	4.8897 ppb	13:44:04
2	Cu 324.752†	10655.2	3122.2	11.056 ug/L	11.056 ppb	13:43:44
2	Mn 257.610†	7244.2	6935.2	10.634 ug/L	10.634 ppb	13:43:44
2	Mo 202.031†	129.1	123.2	11.010 ug/L	11.010 ppb	13:44:04
2	Ni 231.604†	248.2	184.0	5.7333 ug/L	5.7333 ppb	13:44:04

2	P 214.914†	480.7	268.0	143.06 ug/L	143.06 ppb	13:44:04
2	Pb 220.353†	8.8	70.3	11.229 ug/L	11.229 ppb	13:44:04
2	S 181.975 Axial†	119.3	74.1	95.045 ug/L	95.045 ppb	13:44:04
2	Sb 206.836†	60.4	27.4	10.862 ug/L	10.862 ppb	13:44:04
2	Se 196.026†	25.3	47.6	28.209 ug/L	28.209 ppb	13:44:04
2	Si 251.611†	3246.0	2766.2	95.606 ug/L	95.606 ppb	13:44:04
2	Sn 189.927†	38.9	33.8	7.8069 ug/L	7.8069 ppb	13:44:04
2	Ti 334.940†	1527.8	2677.9	5.0999 ug/L	5.0999 ppb	13:43:44
2	Tl 190.801†	7.2	38.6	17.408 ug/L	17.408 ppb	13:44:04
2	U 409.014†	-690.5	1489.4	47.151 ug/L	47.151 ppb	13:43:44
2	V 292.402†	-986.1	599.3	4.8238 ug/L	4.8238 ppb	13:43:44
2	Zn 213.857†	1595.0	865.8	9.1774 ug/L	9.1774 ppb	13:44:04
2	SiO2†	3355.7	2889.3	214.34 ug/L	214.34 ppb	13:44:40
3	Sc Radial	4838.4	4838.4	99.7 %		13:42:52
3	Y RADIAL	5140.4	5140.4	101.0 %		13:42:52
3	Al 396.153Radial†	143.8	230.1	213.81 ug/L	213.81 ppb	13:43:12
3	Ca 317.933Radial†	142.0	127.0	223.76 ug/L	223.76 ppb	13:43:12
3	Fe 238.204 Radial†	18.3	9.6	101.81 ug/L	101.81 ppb	13:43:12
3	K 766.490 Radial†	2851.7	696.0	133.16 ug/L	133.16 ppb	13:42:52
3	Mg 279.077 IEC†	7.4	4.4	173.81 ug/L	173.81 ppb	13:43:12
3	Na 589.592 Radial†	529.0	895.3	302.93 ug/L	302.93 ppb	13:42:52
3	Sr 421.552†	716.0	697.9	5.0252 ug/L	5.0252 ppb	13:42:52
3	Sc 361.383	761176.4	761176.4	96.288 %		13:44:10
3	Y 371.029	680085.2	680085.2	96.481 %		13:44:10
3	Ag 328.068†	1114.3	949.2	4.6525 ug/L	4.6525 ppb	13:44:10
3	As 188.979†	37.7	67.5	29.627 ug/L	29.627 ppb	13:44:30
3	B 249.677†	1578.1	2124.1	51.389 ug/L	51.389 ppb	13:44:10
3	Ba 233.527†	439.3	461.9	5.2368 ug/L	5.2368 ppb	13:44:30
3	Be 313.107†	2254.3	12613.5	4.9569 ug/L	4.9569 ppb	13:44:10
3	Cd 226.502†	170.7	367.1	5.0318 ug/L	5.0318 ppb	13:44:30
3	Co 228.616†	102.8	172.6	5.0270 ug/L	5.0270 ppb	13:44:30
3	Cr 267.716†	426.6	380.6	5.0136 ug/L	5.0136 ppb	13:44:30
3	Cu 324.752†	10381.7	3066.7	10.857 ug/L	10.857 ppb	13:44:10
3	Mn 257.610†	7165.0	7008.3	10.753 ug/L	10.753 ppb	13:44:10
3	Mo 202.031†	117.5	113.9	10.179 ug/L	10.179 ppb	13:44:30
3	Ni 231.604†	247.3	188.3	5.8679 ug/L	5.8679 ppb	13:44:30
3	P 214.914†	466.8	263.9	140.90 ug/L	140.90 ppb	13:44:30
3	Pb 220.353†	-0.4	60.9	9.7358 ug/L	9.7358 ppb	13:44:30
3	S 181.975 Axial†	122.3	79.8	102.34 ug/L	102.34 ppb	13:44:30
3	Sb 206.836†	55.2	23.3	9.3107 ug/L	9.3107 ppb	13:44:30
3	Se 196.026†	34.4	57.6	34.147 ug/L	34.147 ppb	13:44:30
3	Si 251.611†	3294.5	2886.2	99.769 ug/L	99.769 ppb	13:44:30
3	Sn 189.927†	51.1	47.3	10.907 ug/L	10.907 ppb	13:44:30
3	Ti 334.940†	1339.8	2515.5	4.7966 ug/L	4.7966 ppb	13:44:10
3	Tl 190.801†	10.3	42.0	18.934 ug/L	18.934 ppb	13:44:30
3	U 409.014†	-510.1	1662.0	52.615 ug/L	52.615 ppb	13:44:10
3	V 292.402†	-1037.5	524.8	4.2472 ug/L	4.2472 ppb	13:44:10
3	Zn 213.857†	1589.1	893.9	9.4743 ug/L	9.4743 ppb	13:44:30
3	SiO2†	3388.6	2995.3	222.24 ug/L	222.24 ppb	13:44:45

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	774871.8	98.021 %	1.6044			1.64%
Sc Radial	4813.9	99.2 %	0.81			0.82%
Y 371.029	691511.5	98.102 %	1.4949			1.52%
Y RADIAL	5086.9	99.93 %	1.026			1.03%
Ag 328.068†	915.2	4.4858 ug/L	0.18225	4.4858 ppb	0.18225	4.06%
QC value within limits for Ag 328.068 Recovery = 89.72%						
Al 396.153Radial†	228.3	212.15 ug/L	2.016	212.15 ppb	2.016	0.95%
QC value within limits for Al 396.153Radial Recovery = 106.07%						
As 188.979†	67.9	29.792 ug/L	1.5307	29.792 ppb	1.5307	5.14%
QC value within limits for As 188.979 Recovery = 99.31%						
B 249.677†	2217.5	53.651 ug/L	1.9639	53.651 ppb	1.9639	3.66%
QC value within limits for B 249.677 Recovery = 107.30%						
Ba 233.527†	451.9	5.1239 ug/L	0.11818	5.1239 ppb	0.11818	2.31%
QC value within limits for Ba 233.527 Recovery = 102.48%						
Be 313.107†	12617.9	4.9590 ug/L	0.05466	4.9590 ppb	0.05466	1.10%
QC value within limits for Be 313.107 Recovery = 99.18%						
Ca 317.933Radial†	125.5	221.04 ug/L	2.640	221.04 ppb	2.640	1.19%

QC value within limits for Ca 317.933 Radial Recovery = 110.52%

Cd 226.502†	368.3	5.0481 ug/L	0.03495	5.0481 ppb	0.03495	0.69%
QC value within limits for Cd 226.502 Recovery = 100.96%						
Co 228.616†	177.1	5.1579 ug/L	0.16586	5.1579 ppb	0.16586	3.22%
QC value within limits for Co 228.616 Recovery = 103.16%						
Cr 267.716†	371.0	4.8874 ug/L	0.12740	4.8874 ppb	0.12740	2.61%
QC value within limits for Cr 267.716 Recovery = 97.75%						
Cu 324.752†	3074.2	10.884 ug/L	0.1608	10.884 ppb	0.1608	1.48%
QC value within limits for Cu 324.752 Recovery = 108.84%						
Fe 238.204 Radial†	8.8	93.169 ug/L	8.7512	93.169 ppb	8.7512	9.39%
QC value within limits for Fe 238.204 Radial Recovery = 93.17%						
K 766.490 Radial†	762.7	145.94 ug/L	11.612	145.94 ppb	11.612	7.96%
QC value within limits for K 766.490 Radial Recovery = 97.30%						
Mg 279.077 IEC†	5.5	218.30 ug/L	58.875	218.30 ppb	58.875	26.97%
QC value within limits for Mg 279.077 IEC Recovery = 72.77%						
Mn 257.610†	6968.0	10.688 ug/L	0.0600	10.688 ppb	0.0600	0.56%
QC value within limits for Mn 257.610 Recovery = 106.88%						
Mo 202.031†	116.9	10.450 ug/L	0.4856	10.450 ppb	0.4856	4.65%
QC value within limits for Mo 202.031 Recovery = 104.50%						
Na 589.592 Radial†	884.7	299.35 ug/L	4.040	299.35 ppb	4.040	1.35%
QC value within limits for Na 589.592 Radial Recovery = 99.78%						
Ni 231.604†	180.3	5.6164 ug/L	0.32597	5.6164 ppb	0.32597	5.80%
QC value within limits for Ni 231.604 Recovery = 112.33%						
P 214.914†	266.6	142.34 ug/L	1.250	142.34 ppb	1.250	0.88%
QC value within limits for P 214.914 Recovery = 94.89%						
Pb 220.353†	69.0	11.026 ug/L	1.2023	11.026 ppb	1.2023	10.90%
QC value within limits for Pb 220.353 Recovery = 110.26%						
S 181.975 Axial†	74.9	96.053 ug/L	5.8515	96.053 ppb	5.8515	6.09%
QC value within limits for S 181.975 Axial Recovery = 96.05%						
Sb 206.836†	23.4	9.3585 ug/L	1.48003	9.3585 ppb	1.48003	15.81%
QC value within limits for Sb 206.836 Recovery = 93.59%						
Se 196.026†	53.2	31.552 ug/L	3.0388	31.552 ppb	3.0388	9.63%
QC value within limits for Se 196.026 Recovery = 105.17%						
Si 251.611†	2799.6	96.766 ug/L	2.6230	96.766 ppb	2.6230	2.71%
QC value within limits for Si 251.611 Recovery = 96.77%						
Sn 189.927†	42.5	9.7968 ug/L	1.72713	9.7968 ppb	1.72713	17.63%
QC value within limits for Sn 189.927 Recovery = 97.97%						
Sr 421.552†	682.4	4.9138 ug/L	0.10839	4.9138 ppb	0.10839	2.21%
QC value within limits for Sr 421.552 Recovery = 98.28%						
Ti 334.940†	2604.9	4.9639 ug/L	0.15402	4.9639 ppb	0.15402	3.10%
QC value within limits for Ti 334.940 Recovery = 99.28%						
Tl 190.801†	41.5	18.725 ug/L	1.2264	18.725 ppb	1.2264	6.55%
QC value within limits for Tl 190.801 Recovery = 93.63%						
U 409.014†	1634.4	51.743 ug/L	4.2234	51.743 ppb	4.2234	8.16%
QC value within limits for U 409.014 Recovery = 103.49%						
V 292.402†	586.5	4.7239 ug/L	0.43540	4.7239 ppb	0.43540	9.22%
QC value within limits for V 292.402 Recovery = 94.48%						
Zn 213.857†	864.7	9.1657 ug/L	0.31455	9.1657 ppb	0.31455	3.43%
QC value within limits for Zn 213.857 Recovery = 91.66%						
SiO2†	2920.8	216.70 ug/L	4.820	216.70 ppb	4.820	2.22%
QC value within limits for SiO2 Recovery = 101.74%						

All analyte(s) passed QC.

Sequence No.: 9
 Sample ID: ICSA
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 13
 Date Collected: 3/2/2010 13:46:57
 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	4352.2	4352.2	89.7 %		13:48:56
1	Y RADIAL	4551.6	4551.6	89.42 %		13:48:56
1	Al 396.153Radial†	498133.8	555582.0	517490 ug/L	517490 ppb	13:48:51
1	Ca 317.933Radial†	243585.1	271619.6	478390 ug/L	478390 ppb	13:48:51
1	Fe 238.204 Radial†	16190.2	18045.8	190430 ug/L	190430 ppb	13:48:56
1	K 766.490 Radial†	2132.1	213.1	-119.20 ug/L	-119.20 ppb	13:48:56
1	Mg 279.077 IEC†	11371.1	12677.5	501500 ug/L	501500 ppb	13:48:56
1	Na 589.592 Radial†	-153.0	194.0	65.633 ug/L	65.633 ppb	13:48:56
1	Sr 421.552†	482.8	518.1	0.1599 ug/L	0.1599 ppb	13:48:56
1	Sc 361.383	689086.6	689086.6	87.169 %		13:49:23
1	Y 371.029	601132.3	601132.3	85.280 %		13:49:23
1	Ag 328.068†	-10298.7	-12022.7	-6.8571 ug/L	-6.8571 ppb	13:49:23
1	As 188.979†	-84.9	-69.0	14.191 ug/L	14.191 ppb	13:49:43
1	B 249.677†	524.7	1087.1	-4.6119 ug/L	-4.6119 ppb	13:49:23
1	Ba 233.527†	-405.7	-459.7	0.6332 ug/L	0.6332 ppb	13:49:43
1	Be 313.107†	-10355.1	-1607.0	-0.6850 ug/L	-0.6850 ppb	13:49:23
1	Cd 226.502†	1157.3	1517.5	1.1260 ug/L	1.1260 ppb	13:49:43
1	Co 228.616†	-19.5	43.5	-1.4812 ug/L	-1.4812 ppb	13:49:43
1	Cr 267.716†	-98.3	-175.2	1.3394 ug/L	1.3394 ppb	13:49:43
1	Cu 324.752†	5547.2	-1351.5	5.2526 ug/L	5.2526 ppb	13:49:23
1	Mn 257.610†	196.7	-207.3	-2.0232 ug/L	-2.0232 ppb	13:49:23
1	Mo 202.031†	-176.5	-210.6	1.6669 ug/L	1.6669 ppb	13:49:43
1	Ni 231.604†	136.2	87.7	2.7348 ug/L	2.7348 ppb	13:49:43
1	P 214.914†	184.7	-9.1	-29.081 ug/L	-29.081 ppb	13:49:43
1	Pb 220.353†	-632.4	-664.1	11.893 ug/L	11.893 ppb	13:49:43
1	S 181.975 Axial†	55.1	16.0	-76.443 ug/L	-76.443 ppb	13:49:43
1	Sb 206.836†	51.4	25.0	-7.9875 ug/L	-7.9875 ppb	13:49:43
1	Se 196.026†	-665.4	-741.5	39.657 ug/L	39.657 ppb	13:49:43
1	Si 251.611†	567.6	115.9	4.2416 ug/L	4.2416 ppb	13:49:43
1	Sn 189.927†	-303.1	-353.5	-7.1428 ug/L	-7.1428 ppb	13:49:43
1	Ti 334.940†	-11999.3	-12641.6	-0.9889 ug/L	-0.9889 ppb	13:49:23
1	Tl 190.801†	-62.8	-40.8	-18.575 ug/L	-18.575 ppb	13:49:43
1	U 409.014†	-346.7	1794.0	35.116 ug/L	35.116 ppb	13:49:23
1	V 292.402†	596.5	2286.5	-0.6555 ug/L	-0.6555 ppb	13:49:43
1	Zn 213.857†	2796.2	2451.3	-2.3427 ug/L	-2.3427 ppb	13:49:43
1	SiO2†	567.0	126.7	9.9211 ug/L	9.9211 ppb	13:50:39
2	Sc Radial	4312.2	4312.2	88.8 %		13:49:06
2	Y RADIAL	4506.3	4506.3	88.53 %		13:49:06
2	Al 396.153Radial†	502847.0	566045.6	527240 ug/L	527240 ppb	13:49:01
2	Ca 317.933Radial†	245860.4	276703.1	487350 ug/L	487350 ppb	13:49:01
2	Fe 238.204 Radial†	16021.2	18023.2	190190 ug/L	190190 ppb	13:49:06
2	K 766.490 Radial†	2053.9	147.2	-134.81 ug/L	-134.81 ppb	13:49:06
2	Mg 279.077 IEC†	11210.2	12614.2	499000 ug/L	499000 ppb	13:49:06
2	Na 589.592 Radial†	-200.7	138.8	46.952 ug/L	46.952 ppb	13:49:06
2	Sr 421.552†	520.6	565.7	0.4353 ug/L	0.4353 ppb	13:49:06
2	Sc 361.383	693453.8	693453.8	87.721 %		13:49:48
2	Y 371.029	604302.5	604302.5	85.730 %		13:49:48
2	Ag 328.068†	-10374.6	-12034.8	-7.1067 ug/L	-7.1067 ppb	13:49:48
2	As 188.979†	-78.0	-60.6	17.852 ug/L	17.852 ppb	13:50:08
2	B 249.677†	469.6	1020.5	-6.1849 ug/L	-6.1849 ppb	13:49:48
2	Ba 233.527†	-415.7	-468.2	0.5304 ug/L	0.5304 ppb	13:50:08
2	Be 313.107†	-10355.5	-1532.7	-0.6552 ug/L	-0.6552 ppb	13:49:48
2	Cd 226.502†	1166.3	1519.3	1.1754 ug/L	1.1754 ppb	13:50:08
2	Co 228.616†	-28.0	33.9	-1.7575 ug/L	-1.7575 ppb	13:50:08
2	Cr 267.716†	-154.1	-238.1	0.5066 ug/L	0.5066 ppb	13:50:08
2	Cu 324.752†	5567.0	-1369.0	5.1802 ug/L	5.1802 ppb	13:49:48
2	Mn 257.610†	186.2	-220.6	-1.9646 ug/L	-1.9646 ppb	13:49:48
2	Mo 202.031†	-179.8	-213.1	1.5330 ug/L	1.5330 ppb	13:50:08
2	Ni 231.604†	149.2	101.6	3.1676 ug/L	3.1676 ppb	13:50:08

2	P 214.914†	169.1	-28.2	-36.837 ug/L	-36.837 ppb	13:50:08
2	Pb 220.353†	-644.1	-672.9	13.011 ug/L	13.011 ppb	13:50:08
2	S 181.975 Axial†	71.3	34.0	-55.183 ug/L	-55.183 ppb	13:50:08
2	Sb 206.836†	84.8	62.6	6.1833 ug/L	6.1833 ppb	13:50:08
2	Se 196.026†	-666.0	-737.4	42.480 ug/L	42.480 ppb	13:50:08
2	Si 251.611†	593.0	140.7	5.1048 ug/L	5.1048 ppb	13:50:08
2	Sn 189.927†	-307.7	-356.6	-6.2395 ug/L	-6.2395 ppb	13:50:08
2	Ti 334.940†	-11949.1	-12497.6	0.6936 ug/L	0.6936 ppb	13:49:48
2	Tl 190.801†	-84.1	-64.6	-29.305 ug/L	-29.305 ppb	13:50:08
2	U 409.014†	-451.1	1677.5	31.453 ug/L	31.453 ppb	13:49:48
2	V 292.402†	642.8	2335.1	-0.3077 ug/L	-0.3077 ppb	13:50:08
2	Zn 213.857†	2763.2	2393.5	-2.9275 ug/L	-2.9275 ppb	13:50:08
2	SiO2†	507.4	54.6	4.5758 ug/L	4.5758 ppb	13:50:44
3	Sc Radial	4380.8	4380.8	90.3 %		13:49:16
3	Y RADIAL	4577.2	4577.2	89.92 %		13:49:16
3	Al 396.153Radial†	506109.8	560794.0	522350 ug/L	522350 ppb	13:49:11
3	Ca 317.933Radial†	246849.9	273464.3	481640 ug/L	481640 ppb	13:49:11
3	Fe 238.204 Radial†	16155.7	17889.8	188780 ug/L	188780 ppb	13:49:16
3	K 766.490 Radial†	1920.1	-37.3	-168.26 ug/L	-168.26 ppb	13:49:16
3	Mg 279.077 IEC†	11350.5	12572.0	497330 ug/L	497330 ppb	13:49:16
3	Na 589.592 Radial†	-177.0	168.5	57.008 ug/L	57.008 ppb	13:49:16
3	Sr 421.552†	498.4	531.9	0.2344 ug/L	0.2344 ppb	13:49:16
3	Sc 361.383	684558.0	684558.0	86.596 %		13:50:14
3	Y 371.029	596734.3	596734.3	84.656 %		13:50:14
3	Ag 328.068†	-10223.0	-12013.4	-7.3556 ug/L	-7.3556 ppb	13:50:14
3	As 188.979†	-91.6	-77.4	10.138 ug/L	10.138 ppb	13:50:34
3	B 249.677†	477.1	1036.1	-5.5808 ug/L	-5.5808 ppb	13:50:14
3	Ba 233.527†	-418.6	-477.7	0.3813 ug/L	0.3813 ppb	13:50:34
3	Be 313.107†	-10341.6	-1670.0	-0.7087 ug/L	-0.7087 ppb	13:50:14
3	Cd 226.502†	1170.2	1541.2	1.6205 ug/L	1.6205 ppb	13:50:34
3	Co 228.616†	-9.9	54.5	-1.1393 ug/L	-1.1393 ppb	13:50:34
3	Cr 267.716†	-104.5	-183.1	1.2061 ug/L	1.2061 ppb	13:50:34
3	Cu 324.752†	5395.6	-1484.5	4.6960 ug/L	4.6960 ppb	13:50:14
3	Mn 257.610†	337.8	-42.8	-1.7627 ug/L	-1.7627 ppb	13:50:14
3	Mo 202.031†	-174.5	-209.7	1.6593 ug/L	1.6593 ppb	13:50:34
3	Ni 231.604†	156.4	112.1	3.4937 ug/L	3.4937 ppb	13:50:34
3	P 214.914†	194.9	4.2	-19.302 ug/L	-19.302 ppb	13:50:34
3	Pb 220.353†	-630.0	-666.1	12.931 ug/L	12.931 ppb	13:50:34
3	S 181.975 Axial†	54.4	15.6	-77.870 ug/L	-77.870 ppb	13:50:34
3	Sb 206.836†	57.3	32.2	-5.3674 ug/L	-5.3674 ppb	13:50:34
3	Se 196.026†	-674.6	-757.2	27.214 ug/L	27.214 ppb	13:50:34
3	Si 251.611†	579.5	133.9	4.8656 ug/L	4.8656 ppb	13:50:34
3	Sn 189.927†	-311.0	-364.8	-9.0739 ug/L	-9.0739 ppb	13:50:34
3	Ti 334.940†	-11725.0	-12415.8	0.2209 ug/L	0.2209 ppb	13:50:14
3	Tl 190.801†	-79.8	-60.9	-27.605 ug/L	-27.605 ppb	13:50:34
3	U 409.014†	-447.6	1674.9	31.530 ug/L	31.530 ppb	13:50:14
3	V 292.402†	674.0	2380.6	0.2179 ug/L	0.2179 ppb	13:50:34
3	Zn 213.857†	2764.3	2435.7	-2.2677 ug/L	-2.2677 ppb	13:50:34
3	SiO2†	534.0	92.8	7.4055 ug/L	7.4055 ppb	13:50:49

Mean Data: ICSSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	689032.8	87.162 %	0.5627			0.65%
Sc Radial	4348.4	89.6 %	0.71			0.79%
Y 371.029	600723.0	85.222 %	0.5392			0.63%
Y RADIAL	4545.0	89.29 %	0.706			0.79%
Ag 328.068†	-12023.7	-7.1065 ug/L	0.24927	-7.1065 ppb	0.24927	3.51%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	560807.2	522360 ug/L	4873.1	522360 ppb	4873.1	0.93%
QC value within limits for Al 396.153Radial Recovery = 104.47%						
As 188.979†	-69.0	14.060 ug/L	3.8587	14.060 ppb	3.8587	27.44%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	1047.9	-5.4592 ug/L	0.79353	-5.4592 ppb	0.79353	14.54%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-468.5	0.5150 ug/L	0.12662	0.5150 ppb	0.12662	24.59%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-1603.3	-0.6830 ug/L	0.02679	-0.6830 ppb	0.02679	3.92%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	273929.0	482460 ug/L	4532.5	482460 ppb	4532.5	0.94%

QC value within limits for Ca 317.933 Radial Recovery = 96.49%							
Cd	226.502†	1526.0	1.3073 ug/L	0.27240	1.3073 ppb	0.27240	20.84%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	44.0	-1.4593 ug/L	0.30964	-1.4593 ppb	0.30964	21.22%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	-198.8	1.0174 ug/L	0.44734	1.0174 ppb	0.44734	43.97%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-1401.7	5.0429 ug/L	0.30263	5.0429 ppb	0.30263	6.00%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	17986.3	189800 ug/L	889.5	189800 ppb	889.5	0.47%
QC value within limits for Fe 238.204 Radial Recovery = 94.90%							
K	766.490 Radial†	107.7	-140.76 ug/L	25.066	-140.76 ppb	25.066	17.81%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	12621.2	499280 ug/L	2101.4	499280 ppb	2101.4	0.42%
QC value within limits for Mg 279.077 IEC Recovery = 99.86%							
Mn	257.610†	-156.9	-1.9168 ug/L	0.13663	-1.9168 ppb	0.13663	7.13%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	-211.1	1.6197 ug/L	0.07520	1.6197 ppb	0.07520	4.64%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	167.1	56.531 ug/L	9.3494	56.531 ppb	9.3494	16.54%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	100.5	3.1320 ug/L	0.38070	3.1320 ppb	0.38070	12.16%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-11.1	-28.407 ug/L	8.7873	-28.407 ppb	8.7873	30.93%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-667.7	12.612 ug/L	0.6239	12.612 ppb	0.6239	4.95%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	21.9	-69.832 ug/L	12.7066	-69.832 ppb	12.7066	18.20%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	40.0	-2.3905 ug/L	7.53988	-2.3905 ppb	7.53988	315.40%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-745.3	36.450 ug/L	8.1222	36.450 ppb	8.1222	22.28%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	130.2	4.7373 ug/L	0.44567	4.7373 ppb	0.44567	9.41%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	-358.3	-7.4854 ug/L	1.44796	-7.4854 ppb	1.44796	19.34%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	538.6	0.2765 ug/L	0.14242	0.2765 ppb	0.14242	51.50%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-12518.3	-0.0248 ug/L	0.86776	-0.0248 ppb	0.86776	>999.9%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-55.4	-25.162 ug/L	5.7672	-25.162 ppb	5.7672	22.92%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	1715.5	32.700 ug/L	2.0929	32.700 ppb	2.0929	6.40%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	2334.1	-0.2484 ug/L	0.43969	-0.2484 ppb	0.43969	176.98%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	2426.8	-2.5126 ug/L	0.36122	-2.5126 ppb	0.36122	14.38%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		91.4	7.3008 ug/L	2.67420	7.3008 ppb	2.67420	36.63%
QC value within limits for SiO2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 10
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 14
 Date Collected: 3/2/2010 13:53:01
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	Sc Radial	4254.3	4254.3	87.7	%		13:54:59
1	Y RADIAL	4479.2	4479.2	87.99	%		13:54:59
1	Al 396.153Radial†	505197.3	576433.1	536890	ug/L	536890 ppb	13:54:54
1	Ca 317.933Radial†	244221.6	278601.4	490690	ug/L	490690 ppb	13:54:54
1	Fe 238.204 Radial†	15869.8	18096.1	190970	ug/L	190970 ppb	13:54:59
1	K 766.490 Radial†	28093.5	29885.6	5559.6	ug/L	5559.6 ppb	13:54:54
1	Mg 279.077 IEC†	11222.8	12800.4	506370	ug/L	506370 ppb	13:54:59
1	Na 589.592 Radial†	14147.3	16504.3	5584.5	ug/L	5584.5 ppb	13:54:59
1	Sr 421.552†	64125.0	73135.8	523.11	ug/L	523.11 ppb	13:54:54
1	Sc 361.383	710413.2	710413.2	89.867	%		13:55:27
1	Y 371.029	617957.8	617957.8	87.667	%		13:55:27
1	Ag 328.068†	39283.0	43504.4	266.81	ug/L	266.81 ppb	13:55:27
1	As 188.979†	965.1	1102.2	530.89	ug/L	530.89 ppb	13:55:47
1	B 249.677†	19660.8	22362.9	508.99	ug/L	508.99 ppb	13:55:27
1	Ba 233.527†	39303.0	43740.4	501.66	ug/L	501.66 ppb	13:55:27
1	Be 313.107†	539649.8	610771.7	240.60	ug/L	240.60 ppb	13:55:27
1	Cd 226.502†	30989.1	34673.2	455.56	ug/L	455.56 ppb	13:55:47
1	Co 228.616†	14594.4	16305.9	471.17	ug/L	471.17 ppb	13:55:47
1	Cr 267.716†	32327.0	35909.7	478.45	ug/L	478.45 ppb	13:55:27
1	Cu 324.752†	153203.6	162763.2	587.30	ug/L	587.30 ppb	13:55:27
1	Mn 257.610†	294455.2	327224.3	500.07	ug/L	500.07 ppb	13:55:27
1	Mo 202.031†	4680.4	5200.0	485.04	ug/L	485.04 ppb	13:55:47
1	Ni 231.604†	13428.8	14874.5	463.43	ug/L	463.43 ppb	13:55:47
1	P 214.914†	4422.8	4700.5	2416.4	ug/L	2416.4 ppb	13:55:47
1	Pb 220.353†	2118.5	2418.7	507.12	ug/L	507.12 ppb	13:55:47
1	S 181.975 Axial†	1900.0	2067.0	2552.4	ug/L	2552.4 ppb	13:55:47
1	Sb 206.836†	1367.0	1487.2	570.67	ug/L	570.67 ppb	13:55:47
1	Se 196.026†	3299.4	3693.2	2651.5	ug/L	2651.5 ppb	13:55:47
1	Si 251.611†	139465.4	154655.8	5347.1	ug/L	5347.1 ppb	13:55:27
1	Sn 189.927†	1655.0	1835.9	497.90	ug/L	497.90 ppb	13:55:47
1	Ti 334.940†	228947.4	255887.0	512.89	ug/L	512.89 ppb	13:55:27
1	Tl 190.801†	956.4	1095.4	495.94	ug/L	495.94 ppb	13:55:47
1	U 409.014†	13737.8	17478.6	530.74	ug/L	530.74 ppb	13:55:27
1	V 292.402†	58667.0	66884.4	501.39	ug/L	501.39 ppb	13:55:27
1	Zn 213.857†	44943.0	49254.2	493.43	ug/L	493.43 ppb	13:55:27
1	SiO2†	137526.8	152510.1	11317	ug/L	11317 ppb	13:56:45
2	Sc Radial	4381.6	4381.6	90.3	%		13:55:09
2	Y RADIAL	4597.4	4597.4	90.32	%		13:55:09
2	Al 396.153Radial†	502090.2	556246.5	518090	ug/L	518090 ppb	13:55:04
2	Ca 317.933Radial†	244417.6	270723.7	476810	ug/L	476810 ppb	13:55:04
2	Fe 238.204 Radial†	16001.1	17715.5	186960	ug/L	186960 ppb	13:55:09
2	K 766.490 Radial†	28049.1	28905.2	5376.4	ug/L	5376.4 ppb	13:55:04
2	Mg 279.077 IEC†	11330.5	12547.7	496370	ug/L	496370 ppb	13:55:09
2	Na 589.592 Radial†	14364.9	16276.5	5507.4	ug/L	5507.4 ppb	13:55:09
2	Sr 421.552†	63741.1	70585.2	504.84	ug/L	504.84 ppb	13:55:04
2	Sc 361.383	707898.4	707898.4	89.549	%		13:55:53
2	Y 371.029	615711.7	615711.7	87.349	%		13:55:53
2	Ag 328.068†	39181.5	43546.4	265.98	ug/L	265.98 ppb	13:55:53
2	As 188.979†	975.1	1117.2	536.49	ug/L	536.49 ppb	13:56:13
2	B 249.677†	19677.9	22459.6	511.98	ug/L	511.98 ppb	13:55:53
2	Ba 233.527†	39214.8	43797.3	502.19	ug/L	502.19 ppb	13:55:53
2	Be 313.107†	538521.1	611644.5	240.95	ug/L	240.95 ppb	13:55:53
2	Cd 226.502†	31101.5	34921.2	459.37	ug/L	459.37 ppb	13:56:13
2	Co 228.616†	14659.7	16436.5	475.04	ug/L	475.04 ppb	13:56:13
2	Cr 267.716†	32191.9	35886.6	478.07	ug/L	478.07 ppb	13:55:53
2	Cu 324.752†	152183.1	162229.2	585.19	ug/L	585.19 ppb	13:55:53
2	Mn 257.610†	293599.1	327432.4	500.40	ug/L	500.40 ppb	13:55:53
2	Mo 202.031†	4716.4	5258.7	489.81	ug/L	489.81 ppb	13:56:13
2	Ni 231.604†	13480.8	14985.7	466.89	ug/L	466.89 ppb	13:56:13

2	P 214.914†	4450.3	4748.7	2441.5 ug/L	2441.5 ppb	13:56:13
2	Pb 220.353†	2146.2	2458.1	508.93 ug/L	508.93 ppb	13:56:13
2	S 181.975 Axial†	1889.9	2063.2	2551.1 ug/L	2551.1 ppb	13:56:13
2	Sb 206.836†	1363.8	1489.0	572.10 ug/L	572.10 ppb	13:56:13
2	Se 196.026†	3309.2	3717.2	2654.9 ug/L	2654.9 ppb	13:56:13
2	Si 251.611†	139067.5	154762.9	5350.7 ug/L	5350.7 ppb	13:55:53
2	Sn 189.927†	1663.9	1852.4	499.45 ug/L	499.45 ppb	13:56:13
2	Ti 334.940†	228301.7	256070.9	512.20 ug/L	512.20 ppb	13:55:53
2	Tl 190.801†	967.5	1111.6	503.21 ug/L	503.21 ppb	13:56:13
2	U 409.014†	13666.4	17453.1	530.39 ug/L	530.39 ppb	13:55:53
2	V 292.402†	58664.8	67113.9	503.61 ug/L	503.61 ppb	13:55:53
2	Zn 213.857†	44854.3	49332.8	494.85 ug/L	494.85 ppb	13:55:53
2	SiO2†	137113.2	152591.9	11323 ug/L	11323 ppb	13:56:50
3	Sc Radial	4317.0	4317.0	88.9 %		13:55:20
3	Y RADIAL	4532.7	4532.7	89.05 %		13:55:20
3	Al 396.153Radial†	505442.9	568328.6	529340 ug/L	529340 ppb	13:55:15
3	Ca 317.933Radial†	245477.1	275961.6	486040 ug/L	486040 ppb	13:55:15
3	Fe 238.204 Radial†	15682.0	17621.7	185970 ug/L	185970 ppb	13:55:20
3	K 766.490 Radial†	28167.1	29502.3	5487.7 ug/L	5487.7 ppb	13:55:15
3	Mg 279.077 IEC†	11101.7	12478.0	493620 ug/L	493620 ppb	13:55:20
3	Na 589.592 Radial†	14031.6	16139.6	5461.0 ug/L	5461.0 ppb	13:55:20
3	Sr 421.552†	64163.0	72114.8	515.79 ug/L	515.79 ppb	13:55:15
3	Sc 361.383	707382.4	707382.4	89.483 %		13:56:19
3	Y 371.029	615928.5	615928.5	87.379 %		13:56:19
3	Ag 328.068†	39139.4	43531.2	265.47 ug/L	265.47 ppb	13:56:19
3	As 188.979†	972.3	1114.9	535.28 ug/L	535.28 ppb	13:56:39
3	B 249.677†	19532.6	22313.3	508.60 ug/L	508.60 ppb	13:56:19
3	Ba 233.527†	39099.4	43700.2	501.05 ug/L	501.05 ppb	13:56:19
3	Be 313.107†	538281.6	611815.6	241.01 ug/L	241.01 ppb	13:56:19
3	Cd 226.502†	30960.2	34788.7	457.66 ug/L	457.66 ppb	13:56:39
3	Co 228.616†	14584.9	16364.9	472.96 ug/L	472.96 ppb	13:56:39
3	Cr 267.716†	32192.6	35913.6	478.41 ug/L	478.41 ppb	13:56:19
3	Cu 324.752†	151847.9	161978.6	584.25 ug/L	584.25 ppb	13:56:19
3	Mn 257.610†	292777.7	326753.5	499.37 ug/L	499.37 ppb	13:56:19
3	Mo 202.031†	4686.2	5228.8	487.17 ug/L	487.17 ppb	13:56:39
3	Ni 231.604†	13380.8	14884.9	463.75 ug/L	463.75 ppb	13:56:39
3	P 214.914†	4423.4	4722.3	2430.9 ug/L	2430.9 ppb	13:56:39
3	Pb 220.353†	2081.7	2387.7	500.70 ug/L	500.70 ppb	13:56:39
3	S 181.975 Axial†	1881.9	2055.9	2539.5 ug/L	2539.5 ppb	13:56:39
3	Sb 206.836†	1350.7	1475.4	566.47 ug/L	566.47 ppb	13:56:39
3	Se 196.026†	3272.0	3678.4	2630.9 ug/L	2630.9 ppb	13:56:39
3	Si 251.611†	138725.9	154494.4	5341.4 ug/L	5341.4 ppb	13:56:19
3	Sn 189.927†	1649.4	1837.5	497.73 ug/L	497.73 ppb	13:56:39
3	Ti 334.940†	228150.6	256088.0	513.69 ug/L	513.69 ppb	13:56:19
3	Tl 190.801†	951.6	1094.7	495.61 ug/L	495.61 ppb	13:56:39
3	U 409.014†	13646.9	17442.5	530.17 ug/L	530.17 ppb	13:56:19
3	V 292.402†	58446.7	66917.9	502.16 ug/L	502.16 ppb	13:56:19
3	Zn 213.857†	44482.8	48954.2	490.98 ug/L	490.98 ppb	13:56:19
3	SiO2†	138940.5	154745.7	11483 ug/L	11483 ppb	13:56:55

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	708564.7	89.633 %	0.2051			0.23%
Sc Radial	4317.6	89.0 %	1.31			1.47%
Y 371.029	616532.7	87.465 %	0.1758			0.20%
Y RADIAL	4536.4	89.12 %	1.163			1.31%
Ag 328.068†	43527.3	266.09 ug/L	0.678	266.09 ppb	0.678	0.25%
QC value within limits for Ag 328.068 Recovery = 106.44%						
Al 396.153Radial†	567002.7	528110 ug/L	9462.1	528110 ppb	9462.1	1.79%
QC value within limits for Al 396.153Radial Recovery = 105.62%						
As 188.979†	1111.5	534.22 ug/L	2.945	534.22 ppb	2.945	0.55%
QC value within limits for As 188.979 Recovery = 106.84%						
B 249.677†	22378.6	509.85 ug/L	1.847	509.85 ppb	1.847	0.36%
QC value within limits for B 249.677 Recovery = 101.97%						
Ba 233.527†	43745.9	501.63 ug/L	0.566	501.63 ppb	0.566	0.11%
QC value within limits for Ba 233.527 Recovery = 100.33%						
Be 313.107†	611410.6	240.85 ug/L	0.220	240.85 ppb	0.220	0.09%
QC value within limits for Be 313.107 Recovery = 96.34%						
Ca 317.933Radial†	275095.6	484510 ug/L	7062.0	484510 ppb	7062.0	1.46%

QC value within limits for Ca 317.933 Radial Recovery = 96.90%

Cd 226.502†	34794.3	457.53 ug/L	1.910	457.53 ppb	1.910	0.42%
QC value within limits for Cd 226.502 Recovery = 91.51%						
Co 228.616†	16369.1	473.06 ug/L	1.935	473.06 ppb	1.935	0.41%
QC value within limits for Co 228.616 Recovery = 94.61%						
Cr 267.716†	35903.3	478.31 ug/L	0.208	478.31 ppb	0.208	0.04%
QC value within limits for Cr 267.716 Recovery = 95.66%						
Cu 324.752†	162323.7	585.58 ug/L	1.561	585.58 ppb	1.561	0.27%
QC value within limits for Cu 324.752 Recovery = 117.12%						
Fe 238.204 Radial†	17811.1	187970 ug/L	2651.0	187970 ppb	2651.0	1.41%
QC value within limits for Fe 238.204 Radial Recovery = 93.98%						
K 766.490 Radial†	29431.1	5474.6 ug/L	92.30	5474.6 ppb	92.30	1.69%
QC value within limits for K 766.490 Radial Recovery = 109.49%						
Mg 279.077 IEC†	12608.7	498790 ug/L	6709.8	498790 ppb	6709.8	1.35%
QC value within limits for Mg 279.077 IEC Recovery = 99.76%						
Mn 257.610†	327136.7	499.95 ug/L	0.524	499.95 ppb	0.524	0.10%
QC value within limits for Mn 257.610 Recovery = 99.99%						
Mo 202.031†	5229.1	487.34 ug/L	2.388	487.34 ppb	2.388	0.49%
QC value within limits for Mo 202.031 Recovery = 97.47%						
Na 589.592 Radial†	16306.8	5517.6 ug/L	62.34	5517.6 ppb	62.34	1.13%
QC value within limits for Na 589.592 Radial Recovery = 110.35%						
Ni 231.604†	14915.0	464.69 ug/L	1.913	464.69 ppb	1.913	0.41%
QC value within limits for Ni 231.604 Recovery = 92.94%						
P 214.914†	4723.8	2429.6 ug/L	12.59	2429.6 ppb	12.59	0.52%
QC value within limits for P 214.914 Recovery = 97.18%						
Pb 220.353†	2421.5	505.58 ug/L	4.327	505.58 ppb	4.327	0.86%
QC value within limits for Pb 220.353 Recovery = 101.12%						
S 181.975 Axial†	2062.0	2547.7 ug/L	7.11	2547.7 ppb	7.11	0.28%
QC value within limits for S 181.975 Axial Recovery = 101.91%						
Sb 206.836†	1483.9	569.75 ug/L	2.924	569.75 ppb	2.924	0.51%
QC value within limits for Sb 206.836 Recovery = 113.95%						
Se 196.026†	3696.3	2645.8 ug/L	12.99	2645.8 ppb	12.99	0.49%
QC value within limits for Se 196.026 Recovery = 105.83%						
Si 251.611†	154637.7	5346.4 ug/L	4.67	5346.4 ppb	4.67	0.09%
QC value within limits for Si 251.611 Recovery = 106.93%						
Sn 189.927†	1841.9	498.36 ug/L	0.950	498.36 ppb	0.950	0.19%
QC value within limits for Sn 189.927 Recovery = 99.67%						
Sr 421.552†	71945.3	514.58 ug/L	9.194	514.58 ppb	9.194	1.79%
QC value within limits for Sr 421.552 Recovery = 102.92%						
Ti 334.940†	256015.3	512.93 ug/L	0.748	512.93 ppb	0.748	0.15%
QC value within limits for Ti 334.940 Recovery = 102.59%						
Tl 190.801†	1100.6	498.26 ug/L	4.296	498.26 ppb	4.296	0.86%
QC value within limits for Tl 190.801 Recovery = 99.65%						
U 409.014†	17458.1	530.43 ug/L	0.289	530.43 ppb	0.289	0.05%
QC value within limits for U 409.014 Recovery = 106.09%						
V 292.402†	66972.1	502.39 ug/L	1.128	502.39 ppb	1.128	0.22%
QC value within limits for V 292.402 Recovery = 100.48%						
Zn 213.857†	49180.4	493.09 ug/L	1.958	493.09 ppb	1.958	0.40%
QC value within limits for Zn 213.857 Recovery = 98.62%						
SiO2†	153282.6	11375 ug/L	94.2	11375 ppb	94.2	0.83%
QC value within limits for SiO2 Recovery = 106.35%						

All analyte(s) passed QC.

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

Autosampler Location: 15
 Date Collected: 3/2/2010 13:59:05
 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	4179.3	4179.3	86.1 %		14:01:03
1	Y RADIAL	4413.9	4413.9	86.71 %		14:01:03
1	Al 396.153Radial†	489186.6	568177.2	529220 ug/L	529220 ppb	14:00:58
1	Ca 317.933Radial†	238985.3	277517.8	488780 ug/L	488780 ppb	14:00:58
1	Fe 238.204 Radial†	36295.7	42141.4	444700 ug/L	444700 ppb	14:01:03
1	K 766.490 Radial†	4062.5	2553.2	121.52 ug/L	121.52 ppb	14:01:03
1	Mg 279.077 IEC†	11069.4	12851.9	508140 ug/L	508140 ppb	14:01:03
1	Na 589.592 Radial†	1332501.1	1547795.5	523720 ug/L	523720 ppb	14:00:58
1	Sr 421.552†	1548.9	1778.5	9.1600 ug/L	9.1600 ppb	14:01:03
1	Sc 361.383	649454.9	649454.9	82.156 %		14:01:31
1	Y 371.029	567004.6	567004.6	80.439 %		14:01:31
1	Ag 328.068†	-21578.1	-26472.9	-12.712 ug/L	-12.712 ppb	14:01:31
1	As 188.979†	-172.8	-182.1	24.292 ug/L	24.292 ppb	14:01:51
1	B 249.677†	1401.5	2191.0	-19.198 ug/L	-19.198 ppb	14:01:31
1	Ba 233.527†	-1079.8	-1308.7	-1.2046 ug/L	-1.2046 ppb	14:01:51
1	Be 313.107†	-16346.4	-9624.6	-3.8225 ug/L	-3.8225 ppb	14:01:31
1	Cd 226.502†	3062.6	3917.7	10.865 ug/L	10.865 ppb	14:01:51
1	Co 228.616†	148.7	246.9	0.6918 ug/L	0.6918 ppb	14:01:51
1	Cr 267.716†	23.7	-33.5	1.7340 ug/L	1.7340 ppb	14:01:51
1	Cu 324.752†	3079.7	-3966.6	0.5375 ug/L	0.5375 ppb	14:01:31
1	Mn 257.610†	-16956.1	-21071.9	-9.1955 ug/L	-9.1955 ppb	14:01:31
1	Mo 202.031†	-379.5	-470.0	-1.6391 ug/L	-1.6391 ppb	14:01:51
1	Ni 231.604†	202.9	178.5	5.5606 ug/L	5.5606 ppb	14:01:51
1	P 214.914†	475.7	358.1	-30.228 ug/L	-30.228 ppb	14:01:51
1	Pb 220.353†	-449.1	-485.3	22.857 ug/L	22.857 ppb	14:01:51
1	S 181.975 Axial†	90.2	62.5	-18.908 ug/L	-18.908 ppb	14:01:51
1	Sb 206.836†	30.2	2.8	-20.253 ug/L	-20.253 ppb	14:01:51
1	Se 196.026†	-1595.2	-1919.9	-82.866 ug/L	-82.866 ppb	14:01:51
1	Si 251.611†	-257.2	-848.4	-28.846 ug/L	-28.846 ppb	14:01:51
1	Sn 189.927†	-318.4	-393.3	-29.041 ug/L	-29.041 ppb	14:01:51
1	Ti 334.940†	-10116.6	-11190.0	-4.4427 ug/L	-4.4427 ppb	14:01:31
1	Tl 190.801†	-87.3	-75.0	-34.140 ug/L	-34.140 ppb	14:01:51
1	U 409.014†	416472.0	509122.3	16074 ug/L	16074 ppb	14:01:31
1	V 292.402†	1939.4	3962.9	5.7097 ug/L	5.7097 ppb	14:01:51
1	Zn 213.857†	5033.5	5370.3	-9.2424 ug/L	-9.2424 ppb	14:01:51
1	SiO2†	-276.9	-860.8	-62.807 ug/L	-62.807 ppb	14:02:48
2	Sc Radial	4338.1	4338.1	89.4 %		14:01:13
2	Y RADIAL	4581.1	4581.1	89.99 %		14:01:13
2	Al 396.153Radial†	495367.5	554296.6	516300 ug/L	516300 ppb	14:01:08
2	Ca 317.933Radial†	240440.9	268986.8	473750 ug/L	473750 ppb	14:01:08
2	Fe 238.204 Radial†	36006.2	40274.5	425000 ug/L	425000 ppb	14:01:13
2	K 766.490 Radial†	4121.6	2446.7	112.98 ug/L	112.98 ppb	14:01:13
2	Mg 279.077 IEC†	11008.5	12313.1	486840 ug/L	486840 ppb	14:01:13
2	Na 589.592 Radial†	1336708.0	1495856.2	506140 ug/L	506140 ppb	14:01:08
2	Sr 421.552†	1516.2	1676.0	8.5346 ug/L	8.5346 ppb	14:01:13
2	Sc 361.383	688561.0	688561.0	87.103 %		14:01:57
2	Y 371.029	600887.0	600887.0	85.246 %		14:01:57
2	Ag 328.068†	-21651.9	-25066.0	-11.015 ug/L	-11.015 ppb	14:01:57
2	As 188.979†	-169.5	-166.2	26.625 ug/L	26.625 ppb	14:02:17
2	B 249.677†	1427.2	2123.7	-17.626 ug/L	-17.626 ppb	14:01:57
2	Ba 233.527†	-1087.9	-1243.3	-1.0661 ug/L	-1.0661 ppb	14:02:17
2	Be 313.107†	-16495.8	-8666.1	-3.4442 ug/L	-3.4442 ppb	14:01:57
2	Cd 226.502†	3079.6	3725.5	10.111 ug/L	10.111 ppb	14:02:17
2	Co 228.616†	144.8	232.1	0.5493 ug/L	0.5493 ppb	14:02:17
2	Cr 267.716†	-61.9	-133.5	0.3545 ug/L	0.3545 ppb	14:02:17
2	Cu 324.752†	3095.9	-4160.9	-0.7494 ug/L	-0.7494 ppb	14:01:57
2	Mn 257.610†	-17264.9	-20254.2	-9.0152 ug/L	-9.0152 ppb	14:01:57
2	Mo 202.031†	-383.7	-448.7	-1.4414 ug/L	-1.4414 ppb	14:02:17
2	Ni 231.604†	200.1	161.2	5.0214 ug/L	5.0214 ppb	14:02:17

2	P 214.914†	523.9	380.5	-5.2199 ug/L	-5.2199 ppb	14:02:17
2	Pb 220.353†	-465.7	-473.3	22.989 ug/L	22.989 ppb	14:02:17
2	S 181.975 Axial†	71.9	35.2	-51.520 ug/L	-51.520 ppb	14:02:17
2	Sb 206.836†	70.6	47.1	-2.5463 ug/L	-2.5463 ppb	14:02:17
2	Se 196.026†	-1628.1	-1847.3	-85.519 ug/L	-85.519 ppb	14:02:17
2	Si 251.611†	-255.3	-828.4	-28.178 ug/L	-28.178 ppb	14:02:17
2	Sn 189.927†	-310.9	-362.6	-23.529 ug/L	-23.529 ppb	14:02:17
2	Ti 334.940†	-10233.8	-10625.1	-3.2836 ug/L	-3.2836 ppb	14:01:57
2	Tl 190.801†	-70.4	-49.6	-22.717 ug/L	-22.717 ppb	14:02:17
2	U 409.014†	419428.1	483725.4	15272 ug/L	15272 ppb	14:01:57
2	V 292.402†	1997.6	3895.6	6.1388 ug/L	6.1388 ppb	14:02:17
2	Zn 213.857†	5088.3	5085.3	-9.3324 ug/L	-9.3324 ppb	14:02:17
2	SiO2†	-277.1	-842.0	-61.457 ug/L	-61.457 ppb	14:02:53
3	Sc Radial	4474.1	4474.1	92.2 %		14:01:24
3	Y RADIAL	4694.7	4694.7	92.23 %		14:01:24
3	Al 396.153Radial†	490250.6	531902.7	495440 ug/L	495440 ppb	14:01:19
3	Ca 317.933Radial†	238487.4	258692.3	455620 ug/L	455620 ppb	14:01:19
3	Fe 238.204 Radial†	35342.8	38330.6	404480 ug/L	404480 ppb	14:01:24
3	K 766.490 Radial†	4193.1	2384.1	113.76 ug/L	113.76 ppb	14:01:24
3	Mg 279.077 IEC†	10789.5	11701.3	462640 ug/L	462640 ppb	14:01:24
3	Na 589.592 Radial†	1331732.1	1445008.5	488940 ug/L	488940 ppb	14:01:19
3	Sr 421.552†	1475.6	1580.4	7.9813 ug/L	7.9813 ppb	14:01:24
3	Sc 361.383	676165.1	676165.1	85.534 %		14:02:22
3	Y 371.029	589348.3	589348.3	83.609 %		14:02:22
3	Ag 328.068†	-21745.5	-25631.1	-20.044 ug/L	-20.044 ppb	14:02:22
3	As 188.979†	-168.0	-168.1	21.008 ug/L	21.008 ppb	14:02:42
3	B 249.677†	1415.3	2139.8	-13.907 ug/L	-13.907 ppb	14:02:22
3	Ba 233.527†	-1100.2	-1280.6	-2.1101 ug/L	-2.1101 ppb	14:02:42
3	Be 313.107†	-16395.3	-8895.8	-3.5340 ug/L	-3.5340 ppb	14:02:22
3	Cd 226.502†	3070.6	3779.8	13.023 ug/L	13.023 ppb	14:02:42
3	Co 228.616†	140.0	229.5	0.7692 ug/L	0.7692 ppb	14:02:42
3	Cr 267.716†	-6.7	-70.2	0.6987 ug/L	0.6987 ppb	14:02:42
3	Cu 324.752†	3078.0	-4116.7	-1.8172 ug/L	-1.8172 ppb	14:02:22
3	Mn 257.610†	-16976.3	-20280.3	-10.091 ug/L	-10.091 ppb	14:02:22
3	Mo 202.031†	-383.3	-456.3	-3.9297 ug/L	-3.9297 ppb	14:02:42
3	Ni 231.604†	217.0	185.2	5.7685 ug/L	5.7685 ppb	14:02:42
3	P 214.914†	492.4	354.8	-7.9583 ug/L	-7.9583 ppb	14:02:42
3	Pb 220.353†	-450.8	-465.7	20.503 ug/L	20.503 ppb	14:02:42
3	S 181.975 Axial†	84.6	51.6	-26.626 ug/L	-26.626 ppb	14:02:42
3	Sb 206.836†	51.8	26.5	-9.7422 ug/L	-9.7422 ppb	14:02:42
3	Se 196.026†	-1598.2	-1846.6	-133.02 ug/L	-133.02 ppb	14:02:42
3	Si 251.611†	-266.6	-847.0	-28.815 ug/L	-28.815 ppb	14:02:42
3	Sn 189.927†	-326.4	-387.4	-31.250 ug/L	-31.250 ppb	14:02:42
3	Ti 334.940†	-9990.2	-10555.8	-3.7160 ug/L	-3.7160 ppb	14:02:22
3	Tl 190.801†	-100.4	-86.2	-39.145 ug/L	-39.145 ppb	14:02:42
3	U 409.014†	418663.5	491659.3	15525 ug/L	15525 ppb	14:02:22
3	V 292.402†	2073.3	4026.2	10.130 ug/L	10.130 ppb	14:02:42
3	Zn 213.857†	5012.0	5103.1	-6.0767 ug/L	-6.0767 ppb	14:02:42
3	SiO2†	-268.6	-837.8	-61.131 ug/L	-61.131 ppb	14:02:58

Mean Data: LRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	671393.7	84.931 %	2.5281			2.98%
Sc Radial	4330.5	89.2 %	3.04			3.41%
Y 371.029	585746.6	83.098 %	2.4438			2.94%
Y RADIAL	4563.2	89.64 %	2.775			3.10%
Ag 328.068†	-25723.4	-14.590 ug/L	4.7986	-14.590 ppb	4.7986	32.89%
Al 396.153Radial†	551458.8	513650 ug/L	17048.2	513650 ppb	17048.2	3.32%
QC value within limits for Al 396.153Radial Recovery = 102.73%						
As 188.979†	-172.1	23.975 ug/L	2.8222	23.975 ppb	2.8222	11.77%
B 249.677†	2151.5	-16.910 ug/L	2.7173	-16.910 ppb	2.7173	16.07%
Ba 233.527†	-1277.5	-1.4603 ug/L	0.56699	-1.4603 ppb	0.56699	38.83%
Be 313.107†	-9062.2	-3.6002 ug/L	0.19765	-3.6002 ppb	0.19765	5.49%
Ca 317.933Radial†	268399.0	472720 ug/L	16602.5	472720 ppb	16602.5	3.51%
QC value within limits for Ca 317.933Radial Recovery = 94.54%						
Cd 226.502†	3807.6	11.333 ug/L	1.5113	11.333 ppb	1.5113	13.34%
Co 228.616†	236.2	0.6701 ug/L	0.11154	0.6701 ppb	0.11154	16.64%
Cr 267.716†	-79.1	0.9291 ug/L	0.71804	0.9291 ppb	0.71804	77.28%
Cu 324.752†	-4081.4	-0.6764 ug/L	1.17905	-0.6764 ppb	1.17905	174.32%

Fe 238.204 Radial†	40248.8	424730 ug/L	20108.3	424730 ppb	20108.3	4.73%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 84.95%						
K 766.490 Radial†	2461.3	116.08 ug/L	4.720	116.08 ppb	4.720	4.07%
Mg 279.077 IEC†	12288.7	485870 ug/L	22761.5	485870 ppb	22761.5	4.68%
QC value within limits for Mg 279.077 IEC Recovery = 97.17%						
Mn 257.610†	-20535.5	-9.4340 ug/L	0.57632	-9.4340 ppb	0.57632	6.11%
Mo 202.031†	-458.4	-2.3367 ug/L	1.38309	-2.3367 ppb	1.38309	59.19%
Na 589.592 Radial†	1496220.1	506270 ug/L	17390.0	506270 ppb	17390.0	3.43%
QC value within limits for Na 589.592 Radial Recovery = 101.25%						
Ni 231.604†	175.0	5.4502 ug/L	0.38560	5.4502 ppb	0.38560	7.07%
P 214.914†	364.5	-14.469 ug/L	13.7164	-14.469 ppb	13.7164	94.80%
Pb 220.353†	-474.8	22.116 ug/L	1.3986	22.116 ppb	1.3986	6.32%
S 181.975 Axial†	49.8	-32.351 ug/L	17.0435	-32.351 ppb	17.0435	52.68%
Sb 206.836†	25.5	-10.847 ug/L	8.9048	-10.847 ppb	8.9048	82.09%
Se 196.026†	-1871.3	-100.47 ug/L	28.220	-100.47 ppb	28.220	28.09%
Si 251.611†	-841.3	-28.613 ug/L	0.3769	-28.613 ppb	0.3769	1.32%
Sn 189.927†	-381.1	-27.940 ug/L	3.9767	-27.940 ppb	3.9767	14.23%
Sr 421.552†	1678.3	8.5586 ug/L	0.58975	8.5586 ppb	0.58975	6.89%
Ti 334.940†	-10790.3	-3.8141 ug/L	0.58571	-3.8141 ppb	0.58571	15.36%
Tl 190.801†	-70.3	-32.001 ug/L	8.4205	-32.001 ppb	8.4205	26.31%
U 409.014†	494835.6	15624 ug/L	410.0	15624 ppb	410.0	2.62%
QC value within limits for U 409.014 Recovery = 104.16%						
V 292.402†	3961.6	7.3263 ug/L	2.43780	7.3263 ppb	2.43780	33.27%
Zn 213.857†	5186.2	-8.2172 ug/L	1.85424	-8.2172 ppb	1.85424	22.57%
SiO2†	-846.9	-61.798 ug/L	0.8886	-61.798 ppb	0.8886	1.44%

QC Failed. Continue with analysis.

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 3/2/2010 14:05:09

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	4685.2	4685.2	96.5 %		14:07:07
1	Y RADIAL	4892.8	4892.8	96.12 %		14:07:07
1	Al 396.153Radial†	411.4	512.0	2.3299 ug/L	2.3299 ppb	14:07:27
1	Ca 317.933Radial†	32.3	18.1	31.864 ug/L	31.864 ppb	14:07:27
1	Fe 238.204 Radial†	-16.3	-25.6	25.655 ug/L	25.655 ppb	14:07:27
1	K 766.490 Radial†	1533973.6	1586877.6	304060 ug/L	304060 ppb	14:07:02
1	Mg 279.077 IEC†	-2.1	-5.2	-104.47 ug/L	-104.47 ppb	14:07:27
1	Na 589.592 Radial†	315.1	691.0	233.81 ug/L	233.81 ppb	14:07:07
1	Sr 421.552†	1332115.8	1379917.5	9939.2 ug/L	9939.2 ppb	14:07:02
1	Sc 361.383	757470.3	757470.3	95.820 %		14:08:44
1	Y 371.029	661013.7	661013.7	93.775 %		14:08:44
1	Ag 328.068†	-6936.4	-7447.1	3.6837 ug/L	3.6837 ppb	14:08:49
1	As 188.979†	21173.1	22125.1	9758.7 ug/L	9758.7 ppb	14:08:49
1	B 249.677†	197341.3	206436.2	4969.1 ug/L	4969.1 ppb	14:08:49
1	Ba 233.527†	1174837.8	1226099.8	13890 ug/L	13890 ppb	14:08:44
1	Be 313.107†	6980198.1	7295005.8	2883.1 ug/L	2883.1 ppb	14:08:38
1	Cd 226.502†	680502.0	710381.1	9735.7 ug/L	9735.7 ppb	14:08:44
1	Co 228.616†	326467.3	340776.5	9900.7 ug/L	9900.7 ppb	14:08:49
1	Cr 267.716†	1746778.9	1822925.8	24091 ug/L	24091 ppb	14:08:44
1	Cu 324.752†	5703462.1	5944580.3	21092 ug/L	21092 ppb	14:08:38
1	Mn 257.610†	6129957.4	6396965.3	9812.1 ug/L	9812.1 ppb	14:08:38
1	Mo 202.031†	105003.6	109576.6	9785.6 ug/L	9785.6 ppb	14:08:49
1	Ni 231.604†	308886.5	322294.3	10042 ug/L	10042 ppb	14:08:49
1	P 214.914†	31709.6	32872.1	13721 ug/L	13721 ppb	14:08:49
1	Pb 220.353†	151669.4	158347.9	25155 ug/L	25155 ppb	14:08:49
1	S 181.975 Axial†	38459.0	40089.7	51456 ug/L	51456 ppb	14:08:49
1	Sb 206.836†	26660.7	27789.9	11035 ug/L	11035 ppb	14:08:49
1	Se 196.026†	16433.7	17172.6	10126 ug/L	10126 ppb	14:08:49
1	Si 251.611†	1293595.7	1349498.0	46587 ug/L	46587 ppb	14:08:44
1	Sn 189.927†	43347.7	45233.1	10390 ug/L	10390 ppb	14:08:49
1	Ti 334.940†	4991488.5	5210383.5	9945.6 ug/L	9945.6 ppb	14:08:38
1	Tl 190.801†	22135.8	23132.8	10468 ug/L	10468 ppb	14:08:49
1	U 409.014†	-1041.8	1104.5	-18.869 ug/L	-18.869 ppb	14:08:49
1	V 292.402†	1244225.7	1300111.6	10081 ug/L	10081 ppb	14:08:44
1	Zn 213.857†	1249617.3	1303379.7	13820 ug/L	13820 ppb	14:08:44
1	SiO2†	1319375.5	1376414.1	101990 ug/L	101990 ppb	14:09:34
2	Sc Radial	4594.3	4594.3	94.7 %		14:07:37
2	Y RADIAL	4833.0	4833.0	94.94 %		14:07:37
2	Al 396.153Radial†	405.4	514.1	8.1079 ug/L	8.1079 ppb	14:07:57
2	Ca 317.933Radial†	28.3	14.5	25.569 ug/L	25.569 ppb	14:07:57
2	Fe 238.204 Radial†	-17.6	-27.3	5.5490 ug/L	5.5490 ppb	14:07:57
2	K 766.490 Radial†	1535815.5	1620287.4	310460 ug/L	310460 ppb	14:07:32
2	Mg 279.077 IEC†	-6.3	-9.7	-280.23 ug/L	-280.23 ppb	14:07:57
2	Na 589.592 Radial†	258.2	637.4	215.66 ug/L	215.66 ppb	14:07:37
2	Sr 421.552†	1332751.3	1407912.5	10141 ug/L	10141 ppb	14:07:32
2	Sc 361.383	773179.5	773179.5	97.807 %		14:09:03
2	Y 371.029	674393.2	674393.2	95.674 %		14:09:03
2	Ag 328.068†	-6819.8	-7180.7	4.9088 ug/L	4.9088 ppb	14:09:08
2	As 188.979†	21553.8	22065.5	9731.2 ug/L	9731.2 ppb	14:09:08
2	B 249.677†	199838.5	204804.9	4929.9 ug/L	4929.9 ppb	14:09:08
2	Ba 233.527†	1197658.8	1224521.3	13872 ug/L	13872 ppb	14:09:03
2	Be 313.107†	6991133.8	7158178.5	2829.0 ug/L	2829.0 ppb	14:08:57
2	Cd 226.502†	692045.3	707753.8	9699.7 ug/L	9699.7 ppb	14:09:03
2	Co 228.616†	330545.9	338024.0	9821.0 ug/L	9821.0 ppb	14:09:08
2	Cr 267.716†	1777326.1	1817119.3	24014 ug/L	24014 ppb	14:09:03
2	Cu 324.752†	5710958.8	5831308.8	20690 ug/L	20690 ppb	14:08:57
2	Mn 257.610†	6150332.9	6287817.9	9644.7 ug/L	9644.7 ppb	14:08:57
2	Mo 202.031†	106323.3	108699.5	9707.2 ug/L	9707.2 ppb	14:09:08
2	Ni 231.604†	312602.0	319543.5	9955.8 ug/L	9955.8 ppb	14:09:08

2	P 214.914†	32075.8	32574.1	13638 ug/L	13638 ppb	14:09:08
2	Pb 220.353†	153595.6	157101.3	24958 ug/L	24958 ppb	14:09:08
2	S 181.975 Axial†	38981.5	39808.4	51095 ug/L	51095 ppb	14:09:08
2	Sb 206.836†	27054.5	27627.2	10970 ug/L	10970 ppb	14:09:08
2	Se 196.026†	16732.8	17129.9	10101 ug/L	10101 ppb	14:09:08
2	Si 251.611†	1326938.6	1356159.2	46818 ug/L	46818 ppb	14:09:03
2	Sn 189.927†	43823.3	44800.2	10290 ug/L	10290 ppb	14:09:08
2	Ti 334.940†	5002043.7	5115335.8	9764.1 ug/L	9764.1 ppb	14:08:57
2	Tl 190.801†	22442.3	22976.8	10396 ug/L	10396 ppb	14:09:08
2	U 409.014†	-1038.0	1130.4	-17.874 ug/L	-17.874 ppb	14:09:08
2	V 292.402†	1267698.3	1297728.0	10062 ug/L	10062 ppb	14:09:03
2	Zn 213.857†	1270427.9	1298160.1	13765 ug/L	13765 ppb	14:09:03
2	SiO2†	1319260.6	1348320.4	99901 ug/L	99901 ppb	14:09:40
3	Sc Radial	4665.8	4665.8	96.1 %		14:08:08
3	Y RADIAL	4890.2	4890.2	96.07 %		14:08:08
3	Al 396.153Radial†	409.5	511.8	11.323 ug/L	11.323 ppb	14:08:28
3	Ca 317.933Radial†	35.0	21.0	36.988 ug/L	36.988 ppb	14:08:28
3	Fe 238.204 Radial†	-18.0	-27.5	0.6475 ug/L	0.6475 ppb	14:08:28
3	K 766.490 Radial†	1505816.5	1564207.2	299720 ug/L	299720 ppb	14:08:03
3	Mg 279.077 IEC†	-2.0	-5.1	-100.49 ug/L	-100.49 ppb	14:08:28
3	Na 589.592 Radial†	191.7	564.0	190.85 ug/L	190.85 ppb	14:08:08
3	Sr 421.552†	1305112.4	1357576.1	9778.2 ug/L	9778.2 ppb	14:08:03
3	Sc 361.383	761991.8	761991.8	96.392 %		14:09:23
3	Y 371.029	664432.1	664432.1	94.260 %		14:09:23
3	Ag 328.068†	-6716.1	-7175.6	4.9946 ug/L	4.9946 ppb	14:09:28
3	As 188.979†	20900.0	21710.7	9577.0 ug/L	9577.0 ppb	14:09:28
3	B 249.677†	194043.3	201792.7	4857.2 ug/L	4857.2 ppb	14:09:28
3	Ba 233.527†	1182635.6	1226914.2	13899 ug/L	13899 ppb	14:09:23
3	Be 313.107†	6982143.2	7253797.8	2866.8 ug/L	2866.8 ppb	14:09:16
3	Cd 226.502†	685707.7	711567.5	9751.8 ug/L	9751.8 ppb	14:09:23
3	Co 228.616†	322303.8	334435.3	9716.1 ug/L	9716.1 ppb	14:09:28
3	Cr 267.716†	1758815.1	1824595.5	24113 ug/L	24113 ppb	14:09:23
3	Cu 324.752†	5694108.7	5899557.2	20932 ug/L	20932 ppb	14:09:16
3	Mn 257.610†	6138810.0	6368188.6	9767.9 ug/L	9767.9 ppb	14:09:16
3	Mo 202.031†	103594.4	107464.4	9596.9 ug/L	9596.9 ppb	14:09:28
3	Ni 231.604†	304924.2	316270.8	9853.8 ug/L	9853.8 ppb	14:09:28
3	P 214.914†	31179.2	32125.4	13346 ug/L	13346 ppb	14:09:28
3	Pb 220.353†	149768.5	155436.5	24693 ug/L	24693 ppb	14:09:28
3	S 181.975 Axial†	37879.8	39250.6	50379 ug/L	50379 ppb	14:09:28
3	Sb 206.836†	26227.5	27175.4	10792 ug/L	10792 ppb	14:09:28
3	Se 196.026†	16178.3	16805.8	9909.8 ug/L	9909.8 ppb	14:09:28
3	Si 251.611†	1307387.9	1355795.8	46807 ug/L	46807 ppb	14:09:23
3	Sn 189.927†	42794.6	44390.9	10196 ug/L	10196 ppb	14:09:28
3	Ti 334.940†	4991374.3	5179354.5	9886.4 ug/L	9886.4 ppb	14:09:16
3	Tl 190.801†	21847.7	22696.8	10272 ug/L	10272 ppb	14:09:28
3	U 409.014†	-952.5	1203.5	-15.779 ug/L	-15.779 ppb	14:09:28
3	V 292.402†	1251319.9	1299766.4	10076 ug/L	10076 ppb	14:09:23
3	Zn 213.857†	1258565.7	1304924.7	13838 ug/L	13838 ppb	14:09:23
3	SiO2†	1319373.0	1368241.0	101380 ug/L	101380 ppb	14:09:46

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	764213.9	96.673 %	1.0230			1.06%
Sc Radial	4648.4	95.8 %	0.99			1.03%
Y 371.029	666613.0	94.570 %	0.9861			1.04%
Y RADIAL	4872.0	95.71 %	0.663			0.69%
Ag 328.068†	-7267.8	4.5291 ug/L	0.73333	4.5291 ppb	0.73333	16.19%
Al 396.153Radial†	512.6	7.2535 ug/L	4.55688	7.2535 ppb	4.55688	62.82%
As 188.979†	21967.1	9689.0 ug/L	97.91	9689.0 ppb	97.91	1.01%
QC value within limits for As 188.979 Recovery = 96.89%						
B 249.677†	204344.6	4918.7 ug/L	56.76	4918.7 ppb	56.76	1.15%
QC value within limits for B 249.677 Recovery = 98.37%						
Ba 233.527†	1225845.1	13887 ug/L	13.8	13887 ppb	13.8	0.10%
QC value within limits for Ba 233.527 Recovery = 92.58%						
Be 313.107†	7235660.7	2859.6 ug/L	27.73	2859.6 ppb	27.73	0.97%
QC value within limits for Be 313.107 Recovery = 95.32%						
Ca 317.933Radial†	17.9	31.474 ug/L	5.7196	31.474 ppb	5.7196	18.17%
Cd 226.502†	709900.8	9729.1 ug/L	26.71	9729.1 ppb	26.71	0.27%
QC value within limits for Cd 226.502 Recovery = 97.29%						

Co 228.616†	337745.3	9812.6 ug/L	92.58	9812.6 ppb	92.58	0.94%
QC value within limits for Co 228.616 Recovery = 98.13%						
Cr 267.716†	1821546.9	24073 ug/L	51.8	24073 ppb	51.8	0.22%
QC value within limits for Cr 267.716 Recovery = 96.29%						
Cu 324.752†	5891815.4	20905 ug/L	202.4	20905 ppb	202.4	0.97%
QC value within limits for Cu 324.752 Recovery = 104.52%						
Fe 238.204 Radial†	-26.8	10.617 ug/L	13.2516	10.617 ppb	13.2516	124.81%
K 766.490 Radial†	1590457.4	304750 ug/L	5405.7	304750 ppb	5405.7	1.77%
QC value within limits for K 766.490 Radial Recovery = 101.58%						
Mg 279.077 IEC†	-6.7	-161.73 ug/L	102.644	-161.73 ppb	102.644	63.47%
Mn 257.610†	6350990.6	9741.5 ug/L	86.77	9741.5 ppb	86.77	0.89%
QC value within limits for Mn 257.610 Recovery = 97.42%						
Mo 202.031†	108580.1	9696.6 ug/L	94.77	9696.6 ppb	94.77	0.98%
QC value within limits for Mo 202.031 Recovery = 96.97%						
Na 589.592 Radial†	630.8	213.44 ug/L	21.563	213.44 ppb	21.563	10.10%
Ni 231.604†	319369.5	9950.4 ug/L	93.95	9950.4 ppb	93.95	0.94%
QC value within limits for Ni 231.604 Recovery = 99.50%						
P 214.914†	32523.9	13568 ug/L	196.8	13568 ppb	196.8	1.45%
QC value within limits for P 214.914 Recovery = 90.46%						
Pb 220.353†	156961.9	24935 ug/L	232.1	24935 ppb	232.1	0.93%
QC value within limits for Pb 220.353 Recovery = 99.74%						
S 181.975 Axial†	39716.2	50976 ug/L	548.1	50976 ppb	548.1	1.08%
QC value within limits for S 181.975 Axial Recovery = 101.95%						
Sb 206.836†	27530.8	10933 ug/L	125.7	10933 ppb	125.7	1.15%
QC value within limits for Sb 206.836 Recovery = 109.33%						
Se 196.026†	17036.1	10045 ug/L	118.2	10045 ppb	118.2	1.18%
QC value within limits for Se 196.026 Recovery = 100.45%						
Si 251.611†	1353817.7	46737 ug/L	130.5	46737 ppb	130.5	0.28%
QC value within limits for Si 251.611 Recovery = 93.47%						
Sn 189.927†	44808.1	10292 ug/L	96.7	10292 ppb	96.7	0.94%
QC value within limits for Sn 189.927 Recovery = 102.92%						
Sr 421.552†	1381802.0	9952.7 ug/L	181.66	9952.7 ppb	181.66	1.83%
QC value within limits for Sr 421.552 Recovery = 99.53%						
Ti 334.940†	5168358.0	9865.4 ug/L	92.58	9865.4 ppb	92.58	0.94%
QC value within limits for Ti 334.940 Recovery = 98.65%						
Tl 190.801†	22935.5	10379 ug/L	99.1	10379 ppb	99.1	0.95%
QC value within limits for Tl 190.801 Recovery = 103.79%						
U 409.014†	1146.1	-17.507 ug/L	1.5773	-17.507 ppb	1.5773	9.01%
V 292.402†	1299202.0	10073 ug/L	9.9	10073 ppb	9.9	0.10%
QC value within limits for V 292.402 Recovery = 100.73%						
Zn 213.857†	1302154.9	13808 ug/L	37.8	13808 ppb	37.8	0.27%
QC value within limits for Zn 213.857 Recovery = 92.05%						
SiO2†	1364325.2	101090 ug/L	1073.0	101090 ppb	1073.0	1.06%
QC value within limits for SiO2 Recovery = 94.48%						

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/2/2010 14:11:57

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	4885.4	4885.4	101 %		14:13:49
1	Y RADIAL	5119.2	5119.2	100.6 %		14:13:49
1	Al 396.153Radial†	5162.6	5214.6	4833.4 ug/L	4833.4 ppb	14:13:49
1	Ca 317.933Radial†	2830.5	2796.6	4925.6 ug/L	4925.6 ppb	14:14:09
1	Fe 238.204 Radial†	481.2	469.3	4967.0 ug/L	4967.0 ppb	14:14:09
1	K 766.490 Radial†	30082.2	27720.7	5305.5 ug/L	5305.5 ppb	14:13:49
1	Mg 279.077 IEC†	130.5	126.6	5011.0 ug/L	5011.0 ppb	14:14:09
1	Na 589.592 Radial†	29592.5	29763.3	10071 ug/L	10071 ppb	14:13:49
1	Sr 421.552†	69928.7	69450.4	500.20 ug/L	500.20 ppb	14:13:49
1	Sc 361.383	792747.4	792747.4	100.28 %		14:15:06
1	Y 371.029	700388.6	700388.6	99.361 %		14:15:06
1	Ag 328.068†	98665.3	98179.7	484.10 ug/L	484.10 ppb	14:15:11
1	As 188.979†	1154.5	1179.6	521.11 ug/L	521.11 ppb	14:15:31
1	B 249.677†	21244.2	21669.6	522.34 ug/L	522.34 ppb	14:15:11
1	Ba 233.527†	43112.5	42996.9	487.53 ug/L	487.53 ppb	14:15:11
1	Be 313.107†	1246756.6	1253522.1	492.62 ug/L	492.62 ppb	14:15:06
1	Cd 226.502†	35610.2	35699.8	488.84 ug/L	488.84 ppb	14:15:11
1	Co 228.616†	17140.3	17157.9	498.67 ug/L	498.67 ppb	14:15:11
1	Cr 267.716†	37033.4	36866.8	487.52 ug/L	487.52 ppb	14:15:11
1	Cu 324.752†	143983.4	135863.2	482.05 ug/L	482.05 ppb	14:15:11
1	Mn 257.610†	318411.5	317083.0	486.65 ug/L	486.65 ppb	14:15:11
1	Mo 202.031†	5491.2	5467.6	488.72 ug/L	488.72 ppb	14:15:31
1	Ni 231.604†	16149.0	16035.1	499.59 ug/L	499.59 ppb	14:15:11
1	P 214.914†	4732.7	4498.4	2343.7 ug/L	2343.7 ppb	14:15:31
1	Pb 220.353†	3085.4	3138.0	500.06 ug/L	500.06 ppb	14:15:31
1	S 181.975 Axial†	803.6	754.1	966.97 ug/L	966.97 ppb	14:15:31
1	Sb 206.836†	1354.3	1316.5	523.15 ug/L	523.15 ppb	14:15:31
1	Se 196.026†	807.4	826.9	499.25 ug/L	499.25 ppb	14:15:31
1	Si 251.611†	71256.0	70520.3	2434.8 ug/L	2434.8 ppb	14:15:11
1	Sn 189.927†	2160.8	2149.0	494.19 ug/L	494.19 ppb	14:15:31
1	Ti 334.940†	252098.6	252513.5	482.28 ug/L	482.28 ppb	14:15:11
1	Tl 190.801†	1058.7	1086.9	491.93 ug/L	491.93 ppb	14:15:31
1	U 409.014†	13172.6	15327.3	483.78 ug/L	483.78 ppb	14:15:11
1	V 292.402†	61985.9	63413.8	492.41 ug/L	492.41 ppb	14:15:11
1	Zn 213.857†	46861.3	45973.1	486.14 ug/L	486.14 ppb	14:15:11
1	SiO2†	71315.5	70591.1	5230.9 ug/L	5230.9 ppb	14:16:38
2	Sc Radial	4792.9	4792.9	98.8 %		14:14:14
2	Y RADIAL	5029.3	5029.3	98.80 %		14:14:14
2	Al 396.153Radial†	5108.2	5258.5	4874.4 ug/L	4874.4 ppb	14:14:14
2	Ca 317.933Radial†	2817.9	2838.1	4998.7 ug/L	4998.7 ppb	14:14:34
2	Fe 238.204 Radial†	478.5	475.8	5035.8 ug/L	5035.8 ppb	14:14:34
2	K 766.490 Radial†	29531.2	27739.4	5309.0 ug/L	5309.0 ppb	14:14:14
2	Mg 279.077 IEC†	129.7	128.3	5076.9 ug/L	5076.9 ppb	14:14:34
2	Na 589.592 Radial†	29238.1	29971.7	10141 ug/L	10141 ppb	14:14:14
2	Sr 421.552†	68940.9	69790.8	502.65 ug/L	502.65 ppb	14:14:14
2	Sc 361.383	796507.2	796507.2	100.76 %		14:15:37
2	Y 371.029	703882.3	703882.3	99.857 %		14:15:37
2	Ag 328.068†	99948.4	98988.8	488.10 ug/L	488.10 ppb	14:15:42
2	As 188.979†	1158.4	1178.0	520.46 ug/L	520.46 ppb	14:16:02
2	B 249.677†	21415.2	21739.3	524.01 ug/L	524.01 ppb	14:15:42
2	Ba 233.527†	43710.9	43387.9	491.97 ug/L	491.97 ppb	14:15:42
2	Be 313.107†	1254943.8	1255779.1	493.51 ug/L	493.51 ppb	14:15:37
2	Cd 226.502†	36023.5	35942.4	492.16 ug/L	492.16 ppb	14:15:42
2	Co 228.616†	17347.1	17282.5	502.28 ug/L	502.28 ppb	14:15:42
2	Cr 267.716†	37493.4	37149.1	491.25 ug/L	491.25 ppb	14:15:42
2	Cu 324.752†	145767.3	136955.9	485.93 ug/L	485.93 ppb	14:15:42
2	Mn 257.610†	321925.6	319071.8	489.70 ug/L	489.70 ppb	14:15:42
2	Mo 202.031†	5501.2	5451.7	487.30 ug/L	487.30 ppb	14:16:02
2	Ni 231.604†	16330.3	16139.0	502.83 ug/L	502.83 ppb	14:15:42

2	P 214.914†	4736.3	4479.7	2332.6 ug/L	2332.6 ppb	14:16:02
2	Pb 220.353†	3086.3	3124.4	497.89 ug/L	497.89 ppb	14:16:02
2	S 181.975 Axial†	812.5	759.2	973.48 ug/L	973.48 ppb	14:16:02
2	Sb 206.836†	1347.4	1303.2	517.89 ug/L	517.89 ppb	14:16:02
2	Se 196.026†	808.6	824.4	497.88 ug/L	497.88 ppb	14:16:02
2	Si 251.611†	72024.4	70947.5	2449.6 ug/L	2449.6 ppb	14:15:42
2	Sn 189.927†	2134.3	2112.4	485.81 ug/L	485.81 ppb	14:16:02
2	Ti 334.940†	254937.3	254144.2	485.40 ug/L	485.40 ppb	14:15:42
2	Tl 190.801†	1063.1	1086.3	491.67 ug/L	491.67 ppb	14:16:02
2	U 409.014†	13186.3	15278.9	482.23 ug/L	482.23 ppb	14:15:42
2	V 292.402†	62709.8	63840.5	495.64 ug/L	495.64 ppb	14:15:42
2	Zn 213.857†	47287.9	46175.9	488.27 ug/L	488.27 ppb	14:15:42
2	SiO2†	70674.0	69618.7	5158.7 ug/L	5158.7 ppb	14:16:43
3	Sc Radial	4784.5	4784.5	98.6 %		14:14:39
3	Y RADIAL	4996.6	4996.6	98.16 %		14:14:39
3	Al 396.153Radial†	5083.4	5242.5	4859.4 ug/L	4859.4 ppb	14:14:39
3	Ca 317.933Radial†	2836.6	2862.1	5040.8 ug/L	5040.8 ppb	14:14:59
3	Fe 238.204 Radial†	483.4	481.6	5096.8 ug/L	5096.8 ppb	14:14:59
3	K 766.490 Radial†	29386.8	27645.7	5291.1 ug/L	5291.1 ppb	14:14:39
3	Mg 279.077 IEC†	130.1	128.9	5101.0 ug/L	5101.0 ppb	14:14:59
3	Na 589.592 Radial†	28856.0	29636.3	10028 ug/L	10028 ppb	14:14:39
3	Sr 421.552†	68348.6	69313.0	499.20 ug/L	499.20 ppb	14:14:39
3	Sc 361.383	793248.0	793248.0	100.35 %		14:16:08
3	Y 371.029	700159.0	700159.0	99.329 %		14:16:08
3	Ag 328.068†	98772.9	98224.9	484.36 ug/L	484.36 ppb	14:16:13
3	As 188.979†	1142.1	1166.4	515.37 ug/L	515.37 ppb	14:16:33
3	B 249.677†	21112.8	21525.2	518.82 ug/L	518.82 ppb	14:16:13
3	Ba 233.527†	43215.4	43072.3	488.39 ug/L	488.39 ppb	14:16:13
3	Be 313.107†	1247027.0	1253006.9	492.42 ug/L	492.42 ppb	14:16:08
3	Cd 226.502†	35784.3	35851.0	490.90 ug/L	490.90 ppb	14:16:13
3	Co 228.616†	17274.2	17280.6	502.23 ug/L	502.23 ppb	14:16:13
3	Cr 267.716†	37147.7	36957.5	488.72 ug/L	488.72 ppb	14:16:13
3	Cu 324.752†	143827.7	135617.4	481.18 ug/L	481.18 ppb	14:16:13
3	Mn 257.610†	319072.2	317541.1	487.36 ug/L	487.36 ppb	14:16:13
3	Mo 202.031†	5484.0	5457.0	487.78 ug/L	487.78 ppb	14:16:33
3	Ni 231.604†	16164.9	16040.8	499.77 ug/L	499.77 ppb	14:16:13
3	P 214.914†	4714.4	4477.2	2332.2 ug/L	2332.2 ppb	14:16:33
3	Pb 220.353†	3072.9	3123.7	497.78 ug/L	497.78 ppb	14:16:33
3	S 181.975 Axial†	811.8	761.8	976.81 ug/L	976.81 ppb	14:16:33
3	Sb 206.836†	1342.5	1303.9	518.18 ug/L	518.18 ppb	14:16:33
3	Se 196.026†	812.8	831.9	502.43 ug/L	502.43 ppb	14:16:33
3	Si 251.611†	71128.3	70348.2	2428.8 ug/L	2428.8 ppb	14:16:13
3	Sn 189.927†	2138.5	2125.4	488.79 ug/L	488.79 ppb	14:16:33
3	Ti 334.940†	252289.8	252545.3	482.35 ug/L	482.35 ppb	14:16:13
3	Tl 190.801†	1052.3	1080.0	488.78 ug/L	488.78 ppb	14:16:33
3	U 409.014†	13074.3	15221.0	480.40 ug/L	480.40 ppb	14:16:13
3	V 292.402†	61941.3	63330.3	491.73 ug/L	491.73 ppb	14:16:13
3	Zn 213.857†	46910.5	45992.6	486.33 ug/L	486.33 ppb	14:16:13
3	SiO2†	71594.2	70823.9	5248.2 ug/L	5248.2 ppb	14:16:49

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	794167.6	100.46 %	0.258			0.26%
Sc Radial	4821.0	99.3 %	1.15			1.16%
Y 371.029	701476.6	99.516 %	0.2960			0.30%
Y RADIAL	5048.4	99.18 %	1.247			1.26%
Ag 328.068†	98464.5	485.52 ug/L	2.238	485.52 ppb	2.238	0.46%
QC value within limits for Ag 328.068 Recovery = 97.10%						
Al 396.153Radial†	5238.5	4855.7 ug/L	20.72	4855.7 ppb	20.72	0.43%
QC value within limits for Al 396.153Radial Recovery = 97.11%						
As 188.979†	1174.7	518.98 ug/L	3.140	518.98 ppb	3.140	0.61%
QC value within limits for As 188.979 Recovery = 103.80%						
B 249.677†	21644.7	521.72 ug/L	2.651	521.72 ppb	2.651	0.51%
QC value within limits for B 249.677 Recovery = 104.34%						
Ba 233.527†	43152.4	489.30 ug/L	2.351	489.30 ppb	2.351	0.48%
QC value within limits for Ba 233.527 Recovery = 97.86%						
Be 313.107†	1254102.7	492.85 ug/L	0.582	492.85 ppb	0.582	0.12%
QC value within limits for Be 313.107 Recovery = 98.57%						
Ca 317.933Radial†	2832.3	4988.3 ug/L	58.32	4988.3 ppb	58.32	1.17%

QC value within limits for Ca 317.933 Radial Recovery = 99.77%

Cd 226.502†	35831.1	490.63 ug/L	1.674	490.63 ppb	1.674	0.34%
QC value within limits for Cd 226.502 Recovery = 98.13%						
Co 228.616†	17240.3	501.06 ug/L	2.070	501.06 ppb	2.070	0.41%
QC value within limits for Co 228.616 Recovery = 100.21%						
Cr 267.716†	36991.1	489.16 ug/L	1.907	489.16 ppb	1.907	0.39%
QC value within limits for Cr 267.716 Recovery = 97.83%						
Cu 324.752†	136145.5	483.05 ug/L	2.527	483.05 ppb	2.527	0.52%
QC value within limits for Cu 324.752 Recovery = 96.61%						
Fe 238.204 Radial†	475.5	5033.2 ug/L	64.95	5033.2 ppb	64.95	1.29%
QC value within limits for Fe 238.204 Radial Recovery = 100.66%						
K 766.490 Radial†	27701.9	5301.8 ug/L	9.50	5301.8 ppb	9.50	0.18%
QC value within limits for K 766.490 Radial Recovery = 106.04%						
Mg 279.077 IEC†	127.9	5063.0 ug/L	46.57	5063.0 ppb	46.57	0.92%
QC value within limits for Mg 279.077 IEC Recovery = 101.26%						
Mn 257.610†	317898.6	487.90 ug/L	1.598	487.90 ppb	1.598	0.33%
QC value within limits for Mn 257.610 Recovery = 97.58%						
Mo 202.031†	5458.7	487.93 ug/L	0.719	487.93 ppb	0.719	0.15%
QC value within limits for Mo 202.031 Recovery = 97.59%						
Na 589.592 Radial†	29790.4	10080 ug/L	57.3	10080 ppb	57.3	0.57%
QC value within limits for Na 589.592 Radial Recovery = 100.80%						
Ni 231.604†	16071.6	500.73 ug/L	1.821	500.73 ppb	1.821	0.36%
QC value within limits for Ni 231.604 Recovery = 100.15%						
P 214.914†	4485.1	2336.2 ug/L	6.50	2336.2 ppb	6.50	0.28%
QC value within limits for P 214.914 Recovery = 93.45%						
Pb 220.353†	3128.7	498.58 ug/L	1.285	498.58 ppb	1.285	0.26%
QC value within limits for Pb 220.353 Recovery = 99.72%						
S 181.975 Axial†	758.3	972.42 ug/L	5.007	972.42 ppb	5.007	0.51%
QC value within limits for S 181.975 Axial Recovery = 97.24%						
Sb 206.836†	1307.9	519.74 ug/L	2.957	519.74 ppb	2.957	0.57%
QC value within limits for Sb 206.836 Recovery = 103.95%						
Se 196.026†	827.7	499.85 ug/L	2.334	499.85 ppb	2.334	0.47%
QC value within limits for Se 196.026 Recovery = 99.97%						
Si 251.611†	70605.3	2437.7 ug/L	10.68	2437.7 ppb	10.68	0.44%
QC value within limits for Si 251.611 Recovery = 97.51%						
Sn 189.927†	2128.9	489.60 ug/L	4.251	489.60 ppb	4.251	0.87%
QC value within limits for Sn 189.927 Recovery = 97.92%						
Sr 421.552†	69518.1	500.68 ug/L	1.772	500.68 ppb	1.772	0.35%
QC value within limits for Sr 421.552 Recovery = 100.14%						
Ti 334.940†	253067.7	483.35 ug/L	1.781	483.35 ppb	1.781	0.37%
QC value within limits for Ti 334.940 Recovery = 96.67%						
Tl 190.801†	1084.4	490.79 ug/L	1.747	490.79 ppb	1.747	0.36%
QC value within limits for Tl 190.801 Recovery = 98.16%						
U 409.014†	15275.7	482.14 ug/L	1.693	482.14 ppb	1.693	0.35%
QC value within limits for U 409.014 Recovery = 96.43%						
V 292.402†	63528.2	493.26 ug/L	2.090	493.26 ppb	2.090	0.42%
QC value within limits for V 292.402 Recovery = 98.65%						
Zn 213.857†	46047.2	486.92 ug/L	1.178	486.92 ppb	1.178	0.24%
QC value within limits for Zn 213.857 Recovery = 97.38%						
SiO2†	70344.6	5212.6 ug/L	47.48	5212.6 ppb	47.48	0.91%
QC value within limits for SiO2 Recovery = 97.48%						

All analyte(s) passed QC.

Sequence No.: 14
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/2/2010 14:18:59
 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	4796.1	4796.1	98.8 %		14:20:51
1	Y RADIAL	5042.8	5042.8	99.07 %		14:20:51
1	Al 396.153Radial†	-88.6	-3.8	-3.6465 ug/L	-3.6465 ppb	14:21:11
1	Ca 317.933Radial†	22.0	6.9	12.130 ug/L	12.130 ppb	14:21:11
1	Fe 238.204 Radial†	4.3	-4.4	-45.981 ug/L	-45.981 ppb	14:21:11
1	K 766.490 Radial†	2925.9	796.3	152.57 ug/L	152.57 ppb	14:20:51
1	Mg 279.077 IEC†	-1.6	-4.7	-185.09 ug/L	-185.09 ppb	14:21:11
1	Na 589.592 Radial†	-225.3	136.6	46.217 ug/L	46.217 ppb	14:20:51
1	Sr 421.552†	32.1	12.2	0.0876 ug/L	0.0876 ppb	14:20:51
1	Sc 361.383	779727.3	779727.3	98.635 %		14:22:08
1	Y 371.029	696348.4	696348.4	98.788 %		14:22:08
1	Ag 328.068†	194.7	-10.6	-0.0693 ug/L	-0.0693 ppb	14:22:08
1	As 188.979†	-0.7	27.6	12.089 ug/L	12.089 ppb	14:22:28
1	B 249.677†	619.9	1113.6	26.965 ug/L	26.965 ppb	14:22:28
1	Ba 233.527†	16.3	22.2	0.2505 ug/L	0.2505 ppb	14:22:28
1	Be 313.107†	-10133.7	-1.6	-0.0008 ug/L	-0.0008 ppb	14:22:08
1	Cd 226.502†	-181.6	5.7	0.0833 ug/L	0.0833 ppb	14:22:28
1	Co 228.616†	-64.4	0.6	0.0212 ug/L	0.0212 ppb	14:22:28
1	Cr 267.716†	61.4	-0.1	-0.0042 ug/L	-0.0042 ppb	14:22:28
1	Cu 324.752†	7853.3	246.7	0.8707 ug/L	0.8707 ppb	14:22:08
1	Mn 257.610†	429.2	2.2	0.0064 ug/L	0.0064 ppb	14:22:28
1	Mo 202.031†	22.2	14.3	1.2769 ug/L	1.2769 ppb	14:22:28
1	Ni 231.604†	64.7	-2.9	-0.0891 ug/L	-0.0891 ppb	14:22:28
1	P 214.914†	216.1	-1.9	-1.1376 ug/L	-1.1376 ppb	14:22:28
1	Pb 220.353†	-17.1	44.0	6.9881 ug/L	6.9881 ppb	14:22:28
1	S 181.975 Axial†	48.7	2.1	2.7387 ug/L	2.7387 ppb	14:22:28
1	Sb 206.836†	54.7	21.4	8.2918 ug/L	8.2918 ppb	14:22:28
1	Se 196.026†	-18.7	2.9	1.5804 ug/L	1.5804 ppb	14:22:28
1	Si 251.611†	617.7	91.0	3.1333 ug/L	3.1333 ppb	14:22:28
1	Sn 189.927†	14.7	9.1	2.1046 ug/L	2.1046 ppb	14:22:28
1	Ti 334.940†	-1150.4	-42.4	-0.0661 ug/L	-0.0661 ppb	14:22:08
1	Tl 190.801†	-36.7	-6.0	-2.6819 ug/L	-2.6819 ppb	14:22:28
1	U 409.014†	-2030.4	133.2	4.2245 ug/L	4.2245 ppb	14:22:08
1	V 292.402†	-1565.8	14.7	0.1423 ug/L	0.1423 ppb	14:22:08
1	Zn 213.857†	891.8	147.7	1.5828 ug/L	1.5828 ppb	14:22:28
1	SiO2†	622.2	106.9	7.9084 ug/L	7.9084 ppb	14:23:24
2	Sc Radial	4879.0	4879.0	101 %		14:21:17
2	Y RADIAL	5132.6	5132.6	100.8 %		14:21:17
2	Al 396.153Radial†	-81.6	4.7	4.3428 ug/L	4.3428 ppb	14:21:37
2	Ca 317.933Radial†	21.5	6.0	10.576 ug/L	10.576 ppb	14:21:37
2	Fe 238.204 Radial†	6.2	-2.6	-27.049 ug/L	-27.049 ppb	14:21:37
2	K 766.490 Radial†	2856.7	677.3	129.75 ug/L	129.75 ppb	14:21:17
2	Mg 279.077 IEC†	1.5	-1.5	-60.244 ug/L	-60.244 ppb	14:21:37
2	Na 589.592 Radial†	-234.2	131.6	44.527 ug/L	44.527 ppb	14:21:17
2	Sr 421.552†	7.6	-12.7	-0.0916 ug/L	-0.0916 ppb	14:21:17
2	Sc 361.383	778692.3	778692.3	98.504 %		14:22:34
2	Y 371.029	694862.4	694862.4	98.577 %		14:22:34
2	Ag 328.068†	137.1	-68.8	-0.3486 ug/L	-0.3486 ppb	14:22:34
2	As 188.979†	0.7	29.0	12.707 ug/L	12.707 ppb	14:22:54
2	B 249.677†	603.4	1097.7	26.576 ug/L	26.576 ppb	14:22:54
2	Ba 233.527†	24.8	30.9	0.3473 ug/L	0.3473 ppb	14:22:54
2	Be 313.107†	-10052.8	66.8	0.0260 ug/L	0.0260 ppb	14:22:34
2	Cd 226.502†	-176.8	10.3	0.1448 ug/L	0.1448 ppb	14:22:54
2	Co 228.616†	-57.5	7.5	0.2206 ug/L	0.2206 ppb	14:22:54
2	Cr 267.716†	87.6	26.5	0.3482 ug/L	0.3482 ppb	14:22:54
2	Cu 324.752†	7846.8	250.7	0.8876 ug/L	0.8876 ppb	14:22:34
2	Mn 257.610†	437.6	11.3	0.0172 ug/L	0.0172 ppb	14:22:54
2	Mo 202.031†	16.7	8.8	0.7832 ug/L	0.7832 ppb	14:22:54
2	Ni 231.604†	80.0	12.8	0.3979 ug/L	0.3979 ppb	14:22:54

2	P 214.914†	213.3	-4.4	-2.5323 ug/L	-2.5323 ppb	14:22:54
2	Pb 220.353†	-27.4	33.6	5.3338 ug/L	5.3338 ppb	14:22:54
2	S 181.975 Axial†	45.1	-1.5	-1.9308 ug/L	-1.9308 ppb	14:22:54
2	Sb 206.836†	45.9	12.6	4.9131 ug/L	4.9131 ppb	14:22:54
2	Se 196.026†	-17.8	3.8	2.1602 ug/L	2.1602 ppb	14:22:54
2	Si 251.611†	616.8	90.8	3.1347 ug/L	3.1347 ppb	14:22:54
2	Sn 189.927†	18.2	12.7	2.9248 ug/L	2.9248 ppb	14:22:54
2	Ti 334.940†	-1145.4	-38.8	-0.0683 ug/L	-0.0683 ppb	14:22:34
2	Tl 190.801†	-24.8	6.1	2.7400 ug/L	2.7400 ppb	14:22:54
2	U 409.014†	-2133.3	26.0	0.8267 ug/L	0.8267 ppb	14:22:34
2	V 292.402†	-1646.0	-68.7	-0.5114 ug/L	-0.5114 ppb	14:22:34
2	Zn 213.857†	884.2	141.2	1.5076 ug/L	1.5076 ppb	14:22:54
2	SiO2†	630.9	116.7	8.6450 ug/L	8.6450 ppb	14:23:29
3	Sc Radial	4822.4	4822.4	99.4 %		14:21:42
3	Y RADIAL	5087.9	5087.9	99.95 %		14:21:42
3	Al 396.153Radial†	-78.9	6.4	5.9201 ug/L	5.9201 ppb	14:22:02
3	Ca 317.933Radial†	26.0	10.7	18.932 ug/L	18.932 ppb	14:22:02
3	Fe 238.204 Radial†	5.0	-3.7	-39.378 ug/L	-39.378 ppb	14:22:02
3	K 766.490 Radial†	2864.2	718.1	137.58 ug/L	137.58 ppb	14:21:42
3	Mg 279.077 IEC†	2.4	-0.6	-22.993 ug/L	-22.993 ppb	14:22:02
3	Na 589.592 Radial†	-222.7	140.5	47.532 ug/L	47.532 ppb	14:21:42
3	Sr 421.552†	48.4	28.4	0.2044 ug/L	0.2044 ppb	14:21:42
3	Sc 361.383	784980.3	784980.3	99.300 %		14:22:59
3	Y 371.029	700007.6	700007.6	99.307 %		14:22:59
3	Ag 328.068†	157.3	-49.6	-0.2564 ug/L	-0.2564 ppb	14:22:59
3	As 188.979†	-11.9	16.4	7.1624 ug/L	7.1624 ppb	14:23:19
3	B 249.677†	590.3	1079.6	26.142 ug/L	26.142 ppb	14:23:19
3	Ba 233.527†	17.7	23.5	0.2654 ug/L	0.2654 ppb	14:23:19
3	Be 313.107†	-10378.2	-179.1	-0.0699 ug/L	-0.0699 ppb	14:22:59
3	Cd 226.502†	-175.9	12.7	0.1786 ug/L	0.1786 ppb	14:23:19
3	Co 228.616†	-69.8	-4.4	-0.1266 ug/L	-0.1266 ppb	14:23:19
3	Cr 267.716†	71.0	9.1	0.1189 ug/L	0.1189 ppb	14:23:19
3	Cu 324.752†	7846.4	186.5	0.6580 ug/L	0.6580 ppb	14:22:59
3	Mn 257.610†	446.3	16.6	0.0225 ug/L	0.0225 ppb	14:23:19
3	Mo 202.031†	17.1	9.1	0.8060 ug/L	0.8060 ppb	14:23:19
3	Ni 231.604†	64.6	-3.4	-0.1071 ug/L	-0.1071 ppb	14:23:19
3	P 214.914†	206.8	-12.7	-6.9695 ug/L	-6.9695 ppb	14:23:19
3	Pb 220.353†	-23.6	37.6	5.9749 ug/L	5.9749 ppb	14:23:19
3	S 181.975 Axial†	45.3	-1.6	-2.0723 ug/L	-2.0723 ppb	14:23:19
3	Sb 206.836†	45.2	11.5	4.4538 ug/L	4.4538 ppb	14:23:19
3	Se 196.026†	-19.6	2.1	1.1663 ug/L	1.1663 ppb	14:23:19
3	Si 251.611†	617.3	86.4	2.9795 ug/L	2.9795 ppb	14:23:19
3	Sn 189.927†	11.0	5.3	1.2293 ug/L	1.2293 ppb	14:23:19
3	Ti 334.940†	-1036.0	80.7	0.1572 ug/L	0.1572 ppb	14:22:59
3	Tl 190.801†	-28.9	2.2	0.9804 ug/L	0.9804 ppb	14:23:19
3	U 409.014†	-2083.4	93.6	2.9699 ug/L	2.9699 ppb	14:22:59
3	V 292.402†	-1539.5	51.8	0.4194 ug/L	0.4194 ppb	14:22:59
3	Zn 213.857†	875.6	125.4	1.3439 ug/L	1.3439 ppb	14:23:19
3	SiO2†	668.9	149.8	11.108 ug/L	11.108 ppb	14:23:34

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	781133.3	98.813 %	0.4265			0.43%
Sc Radial	4832.5	99.6 %	0.87			0.88%
Y 371.029	697072.8	98.891 %	0.3757			0.38%
Y RADIAL	5087.8	99.95 %	0.882			0.88%
Ag 328.068†	-43.0	-0.2248 ug/L	0.14229	-0.2248 ppb	0.14229	63.30%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	2.4	2.2055 ug/L	5.12897	2.2055 ppb	5.12897	232.56%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	24.3	10.653 ug/L	3.0387	10.653 ppb	3.0387	28.52%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	1097.0	26.561 ug/L	0.4118	26.561 ppb	0.4118	1.55%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	25.5	0.2877 ug/L	0.05209	0.2877 ppb	0.05209	18.11%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-38.0	-0.0149 ug/L	0.04949	-0.0149 ppb	0.04949	332.43%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	7.9	13.879 ug/L	4.4438	13.879 ppb	4.4438	32.02%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd	226.502†	9.6	0.1356 ug/L	0.04828	0.1356 ppb	0.04828	35.61%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	1.2	0.0384 ug/L	0.17426	0.0384 ppb	0.17426	453.57%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	11.8	0.1543 ug/L	0.17881	0.1543 ppb	0.17881	115.87%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	228.0	0.8054 ug/L	0.12798	0.8054 ppb	0.12798	15.89%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	-3.6	-37.470 ug/L	9.6094	-37.470 ppb	9.6094	25.65%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	730.6	139.97 ug/L	11.595	139.97 ppb	11.595	8.28%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-2.3	-89.444 ug/L	84.9036	-89.444 ppb	84.9036	94.92%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	10.0	0.0154 ug/L	0.00821	0.0154 ppb	0.00821	53.41%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	10.7	0.9554 ug/L	0.27870	0.9554 ppb	0.27870	29.17%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	136.2	46.092 ug/L	1.5066	46.092 ppb	1.5066	3.27%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	2.2	0.0672 ug/L	0.28653	0.0672 ppb	0.28653	426.27%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-6.3	-3.5465 ug/L	3.04538	-3.5465 ppb	3.04538	85.87%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	38.4	6.0989 ug/L	0.83407	6.0989 ppb	0.83407	13.68%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-0.3	-0.4215 ug/L	2.73769	-0.4215 ppb	2.73769	649.50%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	15.2	5.8862 ug/L	2.09589	5.8862 ppb	2.09589	35.61%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	2.9	1.6356 ug/L	0.49926	1.6356 ppb	0.49926	30.52%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	89.4	3.0825 ug/L	0.08922	3.0825 ppb	0.08922	2.89%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	9.1	2.0862 ug/L	0.84791	2.0862 ppb	0.84791	40.64%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	9.3	0.0668 ug/L	0.14908	0.0668 ppb	0.14908	223.13%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	-0.2	0.0076 ug/L	0.12957	0.0076 ppb	0.12957	>999.9%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	0.8	0.3462 ug/L	2.76607	0.3462 ppb	2.76607	799.04%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	84.3	2.6737 ug/L	1.71814	2.6737 ppb	1.71814	64.26%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-0.7	0.0168 ug/L	0.47789	0.0168 ppb	0.47789	>999.9%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	138.1	1.4781 ug/L	0.12211	1.4781 ppb	0.12211	8.26%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		124.5	9.2205 ug/L	1.67563	9.2205 ppb	1.67563	18.17%
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

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Analysis Begun

Start Time: 3/2/2010 14:27:08

Plasma On Time: 3/1/2010 06:57:40

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\030210A.sif

Batch ID:

Results Data Set: 030210

Results Library: C:\pe\Optima3\Results\Results.mdb
=====

Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 3/2/2010 12:58:54

IEC File: 011110.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc Radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

Sequence No.: 1

Autosampler Location: 37

Sample ID: LR1

Date Collected: 3/2/2010 14:27:09

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4747.6	4747.6	97.8 %		14:29:03
1	Y RADIAL	5016.0	5016.0	98.54 %		14:29:03
1	Al 396.153Radial†	-104.2	-20.7	-18.213 ug/L	-18.213 ppb	14:29:23

1	Ca 317.933Radial†	15.7	0.7	1.1812 ug/L	1.1812 ppb	14:29:23
1	Fe 238.204 Radial†	34230.1	34984.6	369180 ug/L	369180 ppb	14:29:03
1	K 766.490 Radial†	2266.5	152.5	29.244 ug/L	29.244 ppb	14:29:03
1	Mg 279.077 IEC†	11.7	9.0	-31.582 ug/L	-31.582 ppb	14:29:23
1	Na 589.592 Radial†	-196.7	163.5	55.318 ug/L	55.318 ppb	14:29:03
1	Sr 421.552†	83.6	65.1	0.4692 ug/L	0.4692 ppb	14:29:03
1	Sc 361.383	777630.1	777630.1	98.370 %		14:30:21
1	Y 371.029	690551.9	690551.9	97.966 %		14:30:21
1	Ag 328.068†	-21332.0	-21893.6	6.3673 ug/L	6.3673 ppb	14:30:21
1	As 188.979†	-160.0	-134.3	27.655 ug/L	27.655 ppb	14:30:41
1	B 249.677†	2057.2	2576.5	2.3693 ug/L	2.3693 ppb	14:30:21
1	Ba 233.527†	-1246.4	-1261.4	-2.9139 ug/L	-2.9139 ppb	14:30:21
1	Be 313.107†	-10083.5	21.6	0.0076 ug/L	0.0076 ppb	14:30:21
1	Cd 226.502†	2634.1	2867.6	1.1536 ug/L	1.1536 ppb	14:30:21
1	Co 228.616†	513.6	588.0	11.701 ug/L	11.701 ppb	14:30:41
1	Cr 267.716†	-393.7	-462.7	1.0198 ug/L	1.0198 ppb	14:30:41
1	Cu 324.752†	2655.8	-5015.4	1.7100 ug/L	1.7100 ppb	14:30:21
1	Mn 257.610†	-24553.7	-25393.6	-2.5027 ug/L	-2.5027 ppb	14:30:21
1	Mo 202.031†	-225.6	-237.5	7.4514 ug/L	7.4514 ppb	14:30:21
1	Ni 231.604†	102.9	36.1	1.1149 ug/L	1.1149 ppb	14:30:41
1	P 214.914†	556.1	344.4	-107.24 ug/L	-107.24 ppb	14:30:41
1	Pb 220.353†	185.2	249.6	10.004 ug/L	10.004 ppb	14:30:41
1	S 181.975 Axial†	58.9	12.6	16.214 ug/L	16.214 ppb	14:30:41
1	Sb 206.836†	26.4	-7.1	-7.1597 ug/L	-7.1597 ppb	14:30:41
1	Se 196.026†	-1228.4	-1226.9	105.11 ug/L	105.11 ppb	14:30:41
1	Si 251.611†	-88.9	-625.7	-21.396 ug/L	-21.396 ppb	14:30:21
1	Sn 189.927†	-3.9	-9.8	-23.437 ug/L	-23.437 ppb	14:30:41
1	Ti 334.940†	-1311.8	-209.6	-0.4554 ug/L	-0.4554 ppb	14:30:21
1	Tl 190.801†	-31.6	-0.9	-0.7597 ug/L	-0.7597 ppb	14:30:41
1	U 409.014†	-154.5	2034.7	22.368 ug/L	22.368 ppb	14:30:21
1	V 292.402†	5455.3	7147.9	0.8353 ug/L	0.8353 ppb	14:30:21
1	Zn 213.857†	3632.7	2936.4	-23.886 ug/L	-23.886 ppb	14:30:41
1	SiO2†	-182.2	-709.1	-52.102 ug/L	-52.102 ppb	14:31:38
2	Sc Radial	4871.5	4871.5	100 %		14:29:28
2	Y RADIAL	5081.4	5081.4	99.82 %		14:29:28
2	Al 396.153Radial†	-100.2	-14.0	-11.912 ug/L	-11.912 ppb	14:29:48
2	Ca 317.933Radial†	8.7	-6.7	-11.786 ug/L	-11.786 ppb	14:29:48
2	Fe 238.204 Radial†	34593.9	34457.0	363610 ug/L	363610 ppb	14:29:28
2	K 766.490 Radial†	2185.2	12.6	2.4401 ug/L	2.4401 ppb	14:29:28
2	Mg 279.077 IEC†	11.7	8.6	-41.473 ug/L	-41.473 ppb	14:29:48
2	Na 589.592 Radial†	-246.0	119.5	40.448 ug/L	40.448 ppb	14:29:28
2	Sr 421.552†	84.4	63.8	0.4593 ug/L	0.4593 ppb	14:29:28
2	Sc 361.383	789318.6	789318.6	99.848 %		14:30:47
2	Y 371.029	701600.8	701600.8	99.533 %		14:30:47
2	Ag 328.068†	-21692.9	-21933.9	4.4556 ug/L	4.4556 ppb	14:30:47
2	As 188.979†	-164.6	-136.5	25.402 ug/L	25.402 ppb	14:31:07
2	B 249.677†	2041.7	2530.0	2.1500 ug/L	2.1500 ppb	14:30:47
2	Ba 233.527†	-1207.4	-1203.6	-2.4304 ug/L	-2.4304 ppb	14:30:47
2	Be 313.107†	-10146.2	110.7	0.0428 ug/L	0.0428 ppb	14:30:47
2	Cd 226.502†	2706.1	2900.0	2.1738 ug/L	2.1738 ppb	14:30:47
2	Co 228.616†	496.2	562.8	11.046 ug/L	11.046 ppb	14:31:07
2	Cr 267.716†	-381.1	-444.1	1.1574 ug/L	1.1574 ppb	14:31:07
2	Cu 324.752†	2710.4	-5000.7	1.4668 ug/L	1.4668 ppb	14:30:47
2	Mn 257.610†	-25033.4	-25504.4	-3.2219 ug/L	-3.2219 ppb	14:30:47
2	Mo 202.031†	-254.2	-262.7	4.7670 ug/L	4.7670 ppb	14:30:47
2	Ni 231.604†	104.3	36.0	1.1118 ug/L	1.1118 ppb	14:31:07
2	P 214.914†	562.8	342.7	-103.67 ug/L	-103.67 ppb	14:31:07
2	Pb 220.353†	188.4	250.0	10.516 ug/L	10.516 ppb	14:31:07
2	S 181.975 Axial†	58.3	11.2	14.350 ug/L	14.350 ppb	14:31:07
2	Sb 206.836†	17.4	-16.6	-10.782 ug/L	-10.782 ppb	14:31:07
2	Se 196.026†	-1226.6	-1206.6	104.56 ug/L	104.56 ppb	14:31:07
2	Si 251.611†	-107.3	-642.8	-21.959 ug/L	-21.959 ppb	14:30:47
2	Sn 189.927†	-7.3	-13.0	-23.872 ug/L	-23.872 ppb	14:31:07
2	Ti 334.940†	-1255.0	-132.9	-0.3099 ug/L	-0.3099 ppb	14:30:47
2	Tl 190.801†	-34.7	-3.5	-1.9408 ug/L	-1.9408 ppb	14:31:07
2	U 409.014†	-124.1	2067.4	24.040 ug/L	24.040 ppb	14:30:47
2	V 292.402†	5481.1	7091.7	1.1846 ug/L	1.1846 ppb	14:30:47
2	Zn 213.857†	3691.6	2940.7	-23.008 ug/L	-23.008 ppb	14:31:07
2	SiO2†	-69.0	-592.9	-43.409 ug/L	-43.409 ppb	14:31:43
3	Sc Radial	4803.5	4803.5	99.0 %		14:29:53
3	Y RADIAL	5050.9	5050.9	99.22 %		14:29:53

3	Al 396.153Radial†	-102.3	-17.5	-15.208 ug/L	-15.208 ppb	14:30:13
3	Ca 317.933Radial†	11.8	-3.5	-6.1870 ug/L	-6.1870 ppb	14:30:13
3	Fe 238.204 Radial†	34246.7	34593.6	365050 ug/L	365050 ppb	14:29:53
3	K 766.490 Radial†	2270.4	129.4	24.839 ug/L	24.839 ppb	14:29:53
3	Mg 279.077 IEC†	10.6	7.6	-79.420 ug/L	-79.420 ppb	14:30:13
3	Na 589.592 Radial†	-298.6	62.9	21.285 ug/L	21.285 ppb	14:29:53
3	Sr 421.552†	94.0	74.7	0.5377 ug/L	0.5377 ppb	14:29:53
3	Sc 361.383	776069.1	776069.1	98.172 %		14:31:13
3	Y 371.029	688926.6	688926.6	97.735 %		14:31:13
3	Ag 328.068†	-21281.3	-21885.5	5.1377 ug/L	5.1377 ppb	14:31:13
3	As 188.979†	-165.9	-140.7	23.916 ug/L	23.916 ppb	14:31:33
3	B 249.677†	2032.9	2555.9	2.5429 ug/L	2.5429 ppb	14:31:13
3	Ba 233.527†	-1305.3	-1323.9	-3.7449 ug/L	-3.7449 ppb	14:31:13
3	Be 313.107†	-10084.0	0.6	0.0000 ug/L	0.0000 ppb	14:31:13
3	Cd 226.502†	2641.9	2880.9	1.7644 ug/L	1.7644 ppb	14:31:13
3	Co 228.616†	508.8	584.2	11.645 ug/L	11.645 ppb	14:31:33
3	Cr 267.716†	-412.9	-483.0	0.6711 ug/L	0.6711 ppb	14:31:33
3	Cu 324.752†	2729.2	-4935.3	1.7726 ug/L	1.7726 ppb	14:31:13
3	Mn 257.610†	-24436.7	-25324.5	-2.8021 ug/L	-2.8021 ppb	14:31:13
3	Mo 202.031†	-247.6	-260.3	5.0935 ug/L	5.0935 ppb	14:31:13
3	Ni 231.604†	111.0	44.6	1.3793 ug/L	1.3793 ppb	14:31:33
3	P 214.914†	578.2	368.0	-91.202 ug/L	-91.202 ppb	14:31:33
3	Pb 220.353†	166.6	231.1	7.3882 ug/L	7.3882 ppb	14:31:33
3	S 181.975 Axial†	42.0	-4.4	-5.6838 ug/L	-5.6838 ppb	14:31:33
3	Sb 206.836†	23.5	-10.1	-8.3181 ug/L	-8.3181 ppb	14:31:33
3	Se 196.026†	-1232.2	-1233.3	92.130 ug/L	92.130 ppb	14:31:33
3	Si 251.611†	-139.7	-677.7	-23.168 ug/L	-23.168 ppb	14:31:13
3	Sn 189.927†	-14.5	-20.6	-25.682 ug/L	-25.682 ppb	14:31:33
3	Ti 334.940†	-1155.4	-52.9	-0.1552 ug/L	-0.1552 ppb	14:31:13
3	Tl 190.801†	-44.3	-13.8	-6.5916 ug/L	-6.5916 ppb	14:31:33
3	U 409.014†	24.0	2216.2	28.587 ug/L	28.587 ppb	14:31:13
3	V 292.402†	5564.3	7270.1	2.3533 ug/L	2.3533 ppb	14:31:13
3	Zn 213.857†	3668.4	2980.2	-22.803 ug/L	-22.803 ppb	14:31:33
3	SiO2†	-89.7	-615.2	-45.071 ug/L	-45.071 ppb	14:31:48

Mean Data: LRL

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	781005.9	98.797 %	0.9160			0.93%
Sc Radial	4807.5	99.1 %	1.28			1.29%
Y 371.029	693693.1	98.412 %	0.9784			0.99%
Y RADIAL	5049.5	99.20 %	0.643			0.65%
Ag 328.068†	-21904.3	5.3202 ug/L	0.96880	5.3202 ppb	0.96880	18.21%
Al 396.153Radial†	-17.4	-15.111 ug/L	3.1517	-15.111 ppb	3.1517	20.86%
As 188.979†	-137.2	25.658 ug/L	1.8829	25.658 ppb	1.8829	7.34%
B 249.677†	2554.1	2.3541 ug/L	0.19691	2.3541 ppb	0.19691	8.36%
Ba 233.527†	-1263.0	-3.0297 ug/L	0.66485	-3.0297 ppb	0.66485	21.94%
Be 313.107†	44.3	0.0168 ug/L	0.02286	0.0168 ppb	0.02286	136.09%
Ca 317.933Radial†	-3.2	-5.5972 ug/L	6.50358	-5.5972 ppb	6.50358	116.19%
Cd 226.502†	2882.8	1.6972 ug/L	0.51338	1.6972 ppb	0.51338	30.25%
Co 228.616†	578.3	11.464 ug/L	0.3633	11.464 ppb	0.3633	3.17%
Cr 267.716†	-463.2	0.9494 ug/L	0.25068	0.9494 ppb	0.25068	26.40%
Cu 324.752†	-4983.8	1.6498 ug/L	0.16153	1.6498 ppb	0.16153	9.79%
Fe 238.204 Radial†	34678.4	365950 ug/L	2889.9	365950 ppb	2889.9	0.79%
K 766.490 Radial†	98.2	18.841 ug/L	14.3733	18.841 ppb	14.3733	76.29%
Mg 279.077 IEC†	8.4	-50.825 ug/L	25.2528	-50.825 ppb	25.2528	49.69%
Mn 257.610†	-25407.5	-2.8422 ug/L	0.36130	-2.8422 ppb	0.36130	12.71%
Mo 202.031†	-253.5	5.7706 ug/L	1.46472	5.7706 ppb	1.46472	25.38%
Na 589.592 Radial†	115.3	39.017 ug/L	17.0617	39.017 ppb	17.0617	43.73%
Ni 231.604†	38.9	1.2020 ug/L	0.15354	1.2020 ppb	0.15354	12.77%
P 214.914†	351.7	-100.70 ug/L	8.420	-100.70 ppb	8.420	8.36%
Pb 220.353†	243.6	9.3030 ug/L	1.67793	9.3030 ppb	1.67793	18.04%
S 181.975 Axial†	6.5	8.2934 ug/L	12.14042	8.2934 ppb	12.14042	146.39%
Sb 206.836†	-11.2	-8.7534 ug/L	1.85016	-8.7534 ppb	1.85016	21.14%
Se 196.026†	-1222.3	100.60 ug/L	7.340	100.60 ppb	7.340	7.30%
Si 251.611†	-648.7	-22.174 ug/L	0.9058	-22.174 ppb	0.9058	4.08%
Sn 189.927†	-14.5	-24.330 ug/L	1.1906	-24.330 ppb	1.1906	4.89%
Sr 421.552†	67.8	0.4887 ug/L	0.04272	0.4887 ppb	0.04272	8.74%
Ti 334.940†	-131.8	-0.3068 ug/L	0.15012	-0.3068 ppb	0.15012	48.93%
Tl 190.801†	-6.1	-3.0973 ug/L	3.08316	-3.0973 ppb	3.08316	99.54%

U 409.014†	2106.1	24.999 ug/L	3.2185	24.999 ppb	3.2185	12.87%
V 292.402†	7169.9	1.4577 ug/L	0.79500	1.4577 ppb	0.79500	54.54%
Zn 213.857†	2952.5	-23.233 ug/L	0.5755	-23.233 ppb	0.5755	2.48%
SiO2†	-639.1	-46.861 ug/L	4.6147	-46.861 ppb	4.6147	9.85%

Sequence No.: 2

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/2/2010 14:34:00

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4825.3	4825.3	99.4 %		14:35:52
1	Y RADIAL	5063.6	5063.6	99.47 %		14:35:52
1	Al 396.153Radial†	5159.5	5275.4	4890.0 ug/L	4890.0 ppb	14:35:52
1	Ca 317.933Radial†	2845.1	2846.3	5013.0 ug/L	5013.0 ppb	14:36:12
1	Fe 238.204 Radial†	483.2	477.3	5051.5 ug/L	5051.5 ppb	14:36:12
1	K 766.490 Radial†	28425.8	26426.7	5057.5 ug/L	5057.5 ppb	14:35:52
1	Mg 279.077 IEC†	129.8	127.5	5044.8 ug/L	5044.8 ppb	14:36:12
1	Na 589.592 Radial†	28976.4	29509.6	9985.0 ug/L	9985.0 ppb	14:35:52
1	Sr 421.552†	69156.4	69538.6	500.83 ug/L	500.83 ppb	14:35:52
1	Sc 361.383	788596.9	788596.9	99.757 %		14:37:09
1	Y 371.029	696045.0	696045.0	98.745 %		14:37:09
1	Ag 328.068†	99823.8	99858.9	492.37 ug/L	492.37 ppb	14:37:15
1	As 188.979†	1093.4	1124.4	497.01 ug/L	497.01 ppb	14:37:35
1	B 249.677†	20258.0	20792.5	501.07 ug/L	501.07 ppb	14:37:15
1	Ba 233.527†	43565.6	43677.4	495.25 ug/L	495.25 ppb	14:37:15
1	Be 313.107†	1243176.5	1256476.7	493.80 ug/L	493.80 ppb	14:37:09
1	Cd 226.502†	36002.2	36279.7	496.78 ug/L	496.78 ppb	14:37:15
1	Co 228.616†	17398.0	17506.3	508.78 ug/L	508.78 ppb	14:37:15
1	Cr 267.716†	37366.0	37394.6	494.50 ug/L	494.50 ppb	14:37:15
1	Cu 324.752†	145100.1	137738.2	488.70 ug/L	488.70 ppb	14:37:15
1	Mn 257.610†	321650.0	322000.5	494.20 ug/L	494.20 ppb	14:37:15
1	Mo 202.031†	5466.1	5471.3	489.06 ug/L	489.06 ppb	14:37:35
1	Ni 231.604†	16303.6	16274.9	507.06 ug/L	507.06 ppb	14:37:15
1	P 214.914†	4730.3	4520.8	2354.4 ug/L	2354.4 ppb	14:37:35
1	Pb 220.353†	3039.0	3107.8	495.26 ug/L	495.26 ppb	14:37:35
1	S 181.975 Axial†	820.0	774.7	993.42 ug/L	993.42 ppb	14:37:35
1	Sb 206.836†	1313.2	1282.4	510.03 ug/L	510.03 ppb	14:37:35
1	Se 196.026†	805.5	829.4	500.86 ug/L	500.86 ppb	14:37:35
1	Si 251.611†	71643.7	71282.8	2461.1 ug/L	2461.1 ppb	14:37:15
1	Sn 189.927†	2144.0	2143.5	492.93 ug/L	492.93 ppb	14:37:35
1	Ti 334.940†	254724.4	256468.8	489.85 ug/L	489.85 ppb	14:37:15
1	Tl 190.801†	1064.7	1098.6	497.20 ug/L	497.20 ppb	14:37:35
1	U 409.014†	13275.2	15499.3	489.21 ug/L	489.21 ppb	14:37:15
1	V 292.402†	62500.3	64254.7	498.85 ug/L	498.85 ppb	14:37:15
1	Zn 213.857†	46974.0	46332.0	489.91 ug/L	489.91 ppb	14:37:15
1	SiO2†	71708.8	71359.6	5287.9 ug/L	5287.9 ppb	14:38:42
2	Sc Radial	4818.4	4818.4	99.3 %		14:36:17
2	Y RADIAL	5050.1	5050.1	99.21 %		14:36:17
2	Al 396.153Radial†	5140.9	5264.1	4879.4 ug/L	4879.4 ppb	14:36:17
2	Ca 317.933Radial†	2820.0	2825.2	4975.9 ug/L	4975.9 ppb	14:36:37
2	Fe 238.204 Radial†	476.1	470.8	4982.7 ug/L	4982.7 ppb	14:36:37
2	K 766.490 Radial†	28542.0	26585.1	5087.9 ug/L	5087.9 ppb	14:36:17
2	Mg 279.077 IEC†	130.1	128.0	5064.8 ug/L	5064.8 ppb	14:36:37
2	Na 589.592 Radial†	28810.8	29385.0	9942.8 ug/L	9942.8 ppb	14:36:17
2	Sr 421.552†	68833.9	69314.4	499.22 ug/L	499.22 ppb	14:36:17
2	Sc 361.383	795341.1	795341.1	100.61 %		14:37:40
2	Y 371.029	701359.5	701359.5	99.499 %		14:37:40
2	Ag 328.068†	99071.4	98262.5	484.51 ug/L	484.51 ppb	14:37:45
2	As 188.979†	1114.2	1135.8	501.90 ug/L	501.90 ppb	14:38:05
2	B 249.677†	20131.2	20494.2	493.89 ug/L	493.89 ppb	14:37:45
2	Ba 233.527†	43430.4	43172.7	489.52 ug/L	489.52 ppb	14:37:45
2	Be 313.107†	1252075.0	1254753.8	493.11 ug/L	493.11 ppb	14:37:40
2	Cd 226.502†	35786.8	35759.6	489.66 ug/L	489.66 ppb	14:37:45
2	Co 228.616†	17232.5	17193.8	499.72 ug/L	499.72 ppb	14:37:45
2	Cr 267.716†	37223.6	36935.5	488.43 ug/L	488.43 ppb	14:37:45
2	Cu 324.752†	144318.7	135728.2	481.57 ug/L	481.57 ppb	14:37:45
2	Mn 257.610†	320415.5	318039.3	488.11 ug/L	488.11 ppb	14:37:45
2	Mo 202.031†	5546.3	5504.5	492.02 ug/L	492.02 ppb	14:38:05
2	Ni 231.604†	16262.4	16095.3	501.47 ug/L	501.47 ppb	14:37:45

2	P 214.914†	4795.2	4545.2	2369.1 ug/L	2369.1 ppb	14:38:05
2	Pb 220.353†	3094.7	3137.2	499.95 ug/L	499.95 ppb	14:38:05
2	S 181.975 Axial†	823.4	771.1	988.86 ug/L	988.86 ppb	14:38:05
2	Sb 206.836†	1326.7	1284.6	510.94 ug/L	510.94 ppb	14:38:05
2	Se 196.026†	822.9	839.8	506.85 ug/L	506.85 ppb	14:38:05
2	Si 251.611†	71274.8	70307.2	2427.3 ug/L	2427.3 ppb	14:37:45
2	Sn 189.927†	2157.9	2139.0	491.92 ug/L	491.92 ppb	14:38:05
2	Ti 334.940†	253326.9	252914.5	483.06 ug/L	483.06 ppb	14:37:45
2	Tl 190.801†	1059.9	1084.8	490.96 ug/L	490.96 ppb	14:38:05
2	U 409.014†	13008.4	15121.2	477.25 ug/L	477.25 ppb	14:37:45
2	V 292.402†	62289.5	63514.0	493.21 ug/L	493.21 ppb	14:37:45
2	Zn 213.857†	46725.8	45686.0	483.07 ug/L	483.07 ppb	14:37:45
2	SiO2†	71404.7	70447.8	5220.1 ug/L	5220.1 ppb	14:38:47
3	Sc Radial	4853.1	4853.1	100.0 %		14:36:42
3	Y RADIAL	5069.5	5069.5	99.59 %		14:36:42
3	Al 396.153Radial†	5220.1	5306.3	4918.9 ug/L	4918.9 ppb	14:36:42
3	Ca 317.933Radial†	2841.9	2826.7	4978.5 ug/L	4978.5 ppb	14:37:02
3	Fe 238.204 Radial†	482.9	474.2	5019.1 ug/L	5019.1 ppb	14:37:02
3	K 766.490 Radial†	28639.4	26477.1	5067.2 ug/L	5067.2 ppb	14:36:42
3	Mg 279.077 IEC†	131.0	127.9	5062.5 ug/L	5062.5 ppb	14:37:02
3	Na 589.592 Radial†	29117.3	29484.2	9976.4 ug/L	9976.4 ppb	14:36:42
3	Sr 421.552†	69546.2	69531.2	500.78 ug/L	500.78 ppb	14:36:42
3	Sc 361.383	794808.0	794808.0	100.54 %		14:38:11
3	Y 371.029	700975.6	700975.6	99.445 %		14:38:11
3	Ag 328.068†	100064.8	99316.6	489.69 ug/L	489.69 ppb	14:38:16
3	As 188.979†	1108.1	1130.5	499.63 ug/L	499.63 ppb	14:38:36
3	B 249.677†	20405.0	20780.0	500.79 ug/L	500.79 ppb	14:38:16
3	Ba 233.527†	43725.5	43495.1	493.18 ug/L	493.18 ppb	14:38:16
3	Be 313.107†	1254364.5	1257865.7	494.34 ug/L	494.34 ppb	14:38:11
3	Cd 226.502†	36113.6	36108.4	494.44 ug/L	494.44 ppb	14:38:16
3	Co 228.616†	17386.2	17358.2	504.48 ug/L	504.48 ppb	14:38:16
3	Cr 267.716†	37445.5	37180.9	491.67 ug/L	491.67 ppb	14:38:16
3	Cu 324.752†	145827.4	137324.9	487.23 ug/L	487.23 ppb	14:38:16
3	Mn 257.610†	322819.6	320644.1	492.11 ug/L	492.11 ppb	14:38:16
3	Mo 202.031†	5499.7	5461.9	488.22 ug/L	488.22 ppb	14:38:36
3	Ni 231.604†	16377.6	16220.7	505.37 ug/L	505.37 ppb	14:38:16
3	P 214.914†	4758.3	4511.7	2349.8 ug/L	2349.8 ppb	14:38:36
3	Pb 220.353†	3093.1	3137.8	500.03 ug/L	500.03 ppb	14:38:36
3	S 181.975 Axial†	811.9	760.3	974.94 ug/L	974.94 ppb	14:38:36
3	Sb 206.836†	1314.1	1273.0	506.34 ug/L	506.34 ppb	14:38:36
3	Se 196.026†	816.1	833.5	503.24 ug/L	503.24 ppb	14:38:36
3	Si 251.611†	71872.4	70949.1	2449.6 ug/L	2449.6 ppb	14:38:16
3	Sn 189.927†	2144.1	2126.8	489.10 ug/L	489.10 ppb	14:38:36
3	Ti 334.940†	255400.0	255145.4	487.31 ug/L	487.31 ppb	14:38:16
3	Tl 190.801†	1074.4	1099.9	497.79 ug/L	497.79 ppb	14:38:36
3	U 409.014†	13389.9	15509.4	489.54 ug/L	489.54 ppb	14:38:16
3	V 292.402†	62602.1	63866.4	495.87 ug/L	495.87 ppb	14:38:16
3	Zn 213.857†	47171.0	46160.0	488.09 ug/L	488.09 ppb	14:38:16
3	SiO2†	70592.5	69687.6	5163.8 ug/L	5163.8 ppb	14:38:52

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	792915.3	100.30 %	0.474			0.47%
Sc Radial	4832.3	99.6 %	0.38			0.38%
Y 371.029	699460.0	99.230 %	0.4204			0.42%
Y RADIAL	5061.1	99.42 %	0.195			0.20%
Ag 328.068†	99146.0	488.86 ug/L	3.994	488.86 ppb	3.994	0.82%
QC value within limits for Ag 328.068 Recovery = 97.77%						
Al 396.153Radial†	5281.9	4896.1 ug/L	20.44	4896.1 ppb	20.44	0.42%
QC value within limits for Al 396.153Radial Recovery = 97.92%						
As 188.979†	1130.2	499.51 ug/L	2.449	499.51 ppb	2.449	0.49%
QC value within limits for As 188.979 Recovery = 99.90%						
B 249.677†	20688.9	498.58 ug/L	4.068	498.58 ppb	4.068	0.82%
QC value within limits for B 249.677 Recovery = 99.72%						
Ba 233.527†	43448.4	492.65 ug/L	2.897	492.65 ppb	2.897	0.59%
QC value within limits for Ba 233.527 Recovery = 98.53%						
Be 313.107†	1256365.4	493.75 ug/L	0.617	493.75 ppb	0.617	0.12%
QC value within limits for Be 313.107 Recovery = 98.75%						
Ca 317.933Radial†	2832.7	4989.1 ug/L	20.71	4989.1 ppb	20.71	0.42%

QC value within limits for Ca 317.933 Radial Recovery = 99.78%

Cd 226.502†	36049.3	493.62 ug/L	3.629	493.62 ppb	3.629	0.74%
QC value within limits for Cd 226.502 Recovery = 98.72%						
Co 228.616†	17352.8	504.33 ug/L	4.531	504.33 ppb	4.531	0.90%
QC value within limits for Co 228.616 Recovery = 100.87%						
Cr 267.716†	37170.3	491.53 ug/L	3.036	491.53 ppb	3.036	0.62%
QC value within limits for Cr 267.716 Recovery = 98.31%						
Cu 324.752†	136930.5	485.83 ug/L	3.764	485.83 ppb	3.764	0.77%
QC value within limits for Cu 324.752 Recovery = 97.17%						
Fe 238.204 Radial†	474.1	5017.8 ug/L	34.41	5017.8 ppb	34.41	0.69%
QC value within limits for Fe 238.204 Radial Recovery = 100.36%						
K 766.490 Radial†	26496.3	5070.9 ug/L	15.52	5070.9 ppb	15.52	0.31%
QC value within limits for K 766.490 Radial Recovery = 101.42%						
Mg 279.077 IEC†	127.8	5057.4 ug/L	10.92	5057.4 ppb	10.92	0.22%
QC value within limits for Mg 279.077 IEC Recovery = 101.15%						
Mn 257.610†	320228.0	491.47 ug/L	3.092	491.47 ppb	3.092	0.63%
QC value within limits for Mn 257.610 Recovery = 98.29%						
Mo 202.031†	5479.2	489.76 ug/L	1.996	489.76 ppb	1.996	0.41%
QC value within limits for Mo 202.031 Recovery = 97.95%						
Na 589.592 Radial†	29459.6	9968.0 ug/L	22.28	9968.0 ppb	22.28	0.22%
QC value within limits for Na 589.592 Radial Recovery = 99.68%						
Ni 231.604†	16197.0	504.63 ug/L	2.868	504.63 ppb	2.868	0.57%
QC value within limits for Ni 231.604 Recovery = 100.93%						
P 214.914†	4525.9	2357.8 ug/L	10.08	2357.8 ppb	10.08	0.43%
QC value within limits for P 214.914 Recovery = 94.31%						
Pb 220.353†	3127.6	498.42 ug/L	2.733	498.42 ppb	2.733	0.55%
QC value within limits for Pb 220.353 Recovery = 99.68%						
S 181.975 Axial†	768.7	985.74 ug/L	9.627	985.74 ppb	9.627	0.98%
QC value within limits for S 181.975 Axial Recovery = 98.57%						
Sb 206.836†	1280.0	509.10 ug/L	2.435	509.10 ppb	2.435	0.48%
QC value within limits for Sb 206.836 Recovery = 101.82%						
Se 196.026†	834.2	503.65 ug/L	3.016	503.65 ppb	3.016	0.60%
QC value within limits for Se 196.026 Recovery = 100.73%						
Si 251.611†	70846.4	2446.0 ug/L	17.18	2446.0 ppb	17.18	0.70%
QC value within limits for Si 251.611 Recovery = 97.84%						
Sn 189.927†	2136.4	491.32 ug/L	1.984	491.32 ppb	1.984	0.40%
QC value within limits for Sn 189.927 Recovery = 98.26%						
Sr 421.552†	69461.4	500.27 ug/L	0.917	500.27 ppb	0.917	0.18%
QC value within limits for Sr 421.552 Recovery = 100.05%						
Ti 334.940†	254842.9	486.74 ug/L	3.431	486.74 ppb	3.431	0.70%
QC value within limits for Ti 334.940 Recovery = 97.35%						
Tl 190.801†	1094.4	495.32 ug/L	3.782	495.32 ppb	3.782	0.76%
QC value within limits for Tl 190.801 Recovery = 99.06%						
U 409.014†	15376.6	485.33 ug/L	6.998	485.33 ppb	6.998	1.44%
QC value within limits for U 409.014 Recovery = 97.07%						
V 292.402†	63878.4	495.98 ug/L	2.820	495.98 ppb	2.820	0.57%
QC value within limits for V 292.402 Recovery = 99.20%						
Zn 213.857†	46059.3	487.02 ug/L	3.542	487.02 ppb	3.542	0.73%
QC value within limits for Zn 213.857 Recovery = 97.40%						
SiO2†	70498.3	5223.9 ug/L	62.18	5223.9 ppb	62.18	1.19%
QC value within limits for SiO2 Recovery = 97.69%						

All analyte(s) passed QC.

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

Autosampler Location: 8
 Date Collected: 3/2/2010 14:41:02
 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	4792.6	4792.6	98.7 %		14:42:55
1	Y RADIAL	5063.0	5063.0	99.46 %		14:42:55
1	Al 396.153Radial†	-74.5	10.4	9.5945 ug/L	9.5945 ppb	14:43:15
1	Ca 317.933Radial†	24.0	8.9	15.676 ug/L	15.676 ppb	14:43:15
1	Fe 238.204 Radial†	6.4	-2.3	-24.030 ug/L	-24.030 ppb	14:43:15
1	K 766.490 Radial†	2343.7	209.0	40.023 ug/L	40.023 ppb	14:42:55
1	Mg 279.077 IEC†	1.6	-1.4	-55.111 ug/L	-55.111 ppb	14:43:15
1	Na 589.592 Radial†	-288.7	72.2	24.445 ug/L	24.445 ppb	14:42:55
1	Sr 421.552†	15.3	-4.8	-0.0347 ug/L	-0.0347 ppb	14:42:55
1	Sc 361.383	772582.2	772582.2	97.731 %		14:44:12
1	Y 371.029	689806.1	689806.1	97.860 %		14:44:12
1	Ag 328.068†	148.9	-55.7	-0.2846 ug/L	-0.2846 ppb	14:44:12
1	As 188.979†	-20.4	7.4	3.2537 ug/L	3.2537 ppb	14:44:32
1	B 249.677†	89.3	576.5	13.961 ug/L	13.961 ppb	14:44:32
1	Ba 233.527†	12.6	18.5	0.2080 ug/L	0.2080 ppb	14:44:32
1	Be 313.107†	-10202.0	-166.6	-0.0655 ug/L	-0.0655 ppb	14:44:12
1	Cd 226.502†	-171.5	14.3	0.1988 ug/L	0.1988 ppb	14:44:32
1	Co 228.616†	-71.2	-7.0	-0.2015 ug/L	-0.2015 ppb	14:44:32
1	Cr 267.716†	69.9	9.1	0.1185 ug/L	0.1185 ppb	14:44:32
1	Cu 324.752†	7770.7	235.8	0.8340 ug/L	0.8340 ppb	14:44:12
1	Mn 257.610†	398.8	-24.9	-0.0383 ug/L	-0.0383 ppb	14:44:32
1	Mo 202.031†	19.3	11.6	1.0347 ug/L	1.0347 ppb	14:44:32
1	Ni 231.604†	65.8	-1.2	-0.0373 ug/L	-0.0373 ppb	14:44:32
1	P 214.914†	205.4	-10.7	-5.9581 ug/L	-5.9581 ppb	14:44:32
1	Pb 220.353†	-63.2	-3.4	-0.5256 ug/L	-0.5256 ppb	14:44:32
1	S 181.975 Axial†	38.6	-7.7	-9.9475 ug/L	-9.9475 ppb	14:44:32
1	Sb 206.836†	39.1	6.0	2.3375 ug/L	2.3375 ppb	14:44:32
1	Se 196.026†	-24.1	-2.8	-1.6742 ug/L	-1.6742 ppb	14:44:32
1	Si 251.611†	550.8	28.3	0.9652 ug/L	0.9652 ppb	14:44:32
1	Sn 189.927†	10.8	5.3	1.2102 ug/L	1.2102 ppb	14:44:32
1	Ti 334.940†	-1134.6	-37.0	-0.0653 ug/L	-0.0653 ppb	14:44:12
1	Tl 190.801†	-40.1	-9.8	-4.3990 ug/L	-4.3990 ppb	14:44:32
1	U 409.014†	-2057.4	86.5	2.7431 ug/L	2.7431 ppb	14:44:12
1	V 292.402†	-1620.2	-55.5	-0.4031 ug/L	-0.4031 ppb	14:44:12
1	Zn 213.857†	811.8	74.2	0.7948 ug/L	0.7948 ppb	14:44:32
1	SiO2†	545.8	34.7	2.5465 ug/L	2.5465 ppb	14:45:28
2	Sc Radial	4826.0	4826.0	99.4 %		14:43:20
2	Y RADIAL	5067.3	5067.3	99.55 %		14:43:20
2	Al 396.153Radial†	-94.3	-9.0	-8.3634 ug/L	-8.3634 ppb	14:43:40
2	Ca 317.933Radial†	23.1	7.9	13.862 ug/L	13.862 ppb	14:43:40
2	Fe 238.204 Radial†	5.3	-3.4	-36.328 ug/L	-36.328 ppb	14:43:40
2	K 766.490 Radial†	2400.4	249.5	47.798 ug/L	47.798 ppb	14:43:20
2	Mg 279.077 IEC†	1.9	-1.2	-46.094 ug/L	-46.094 ppb	14:43:40
2	Na 589.592 Radial†	-303.3	59.6	20.150 ug/L	20.150 ppb	14:43:20
2	Sr 421.552†	26.7	6.6	0.0471 ug/L	0.0471 ppb	14:43:20
2	Sc 361.383	772136.4	772136.4	97.675 %		14:44:37
2	Y 371.029	689425.8	689425.8	97.806 %		14:44:37
2	Ag 328.068†	245.1	42.9	0.1969 ug/L	0.1969 ppb	14:44:37
2	As 188.979†	-18.0	9.9	4.3172 ug/L	4.3172 ppb	14:44:57
2	B 249.677†	100.8	588.3	14.249 ug/L	14.249 ppb	14:44:57
2	Ba 233.527†	19.7	25.8	0.2896 ug/L	0.2896 ppb	14:44:57
2	Be 313.107†	-10140.0	-109.1	-0.0431 ug/L	-0.0431 ppb	14:44:37
2	Cd 226.502†	-180.9	4.6	0.0671 ug/L	0.0671 ppb	14:44:57
2	Co 228.616†	-75.9	-11.8	-0.3417 ug/L	-0.3417 ppb	14:44:57
2	Cr 267.716†	61.6	0.6	0.0070 ug/L	0.0070 ppb	14:44:57
2	Cu 324.752†	7788.7	258.9	0.9168 ug/L	0.9168 ppb	14:44:37
2	Mn 257.610†	404.2	-19.1	-0.0309 ug/L	-0.0309 ppb	14:44:57
2	Mo 202.031†	13.4	5.6	0.4985 ug/L	0.4985 ppb	14:44:57
2	Ni 231.604†	75.4	8.7	0.2729 ug/L	0.2729 ppb	14:44:57

2	P 214.914†	222.8	7.1	3.7133 ug/L	3.7133 ppb	14:44:57
2	Pb 220.353†	-49.8	10.3	1.6445 ug/L	1.6445 ppb	14:44:57
2	S 181.975 Axial†	50.7	4.6	5.9104 ug/L	5.9104 ppb	14:44:57
2	Sb 206.836†	39.8	6.8	2.6327 ug/L	2.6327 ppb	14:44:57
2	Se 196.026†	-24.8	-3.6	-2.1907 ug/L	-2.1907 ppb	14:44:57
2	Si 251.611†	558.5	36.5	1.2572 ug/L	1.2572 ppb	14:44:57
2	Sn 189.927†	11.0	5.5	1.2602 ug/L	1.2602 ppb	14:44:57
2	Ti 334.940†	-1164.4	-68.2	-0.1245 ug/L	-0.1245 ppb	14:44:37
2	Tl 190.801†	-32.4	-1.9	-0.8717 ug/L	-0.8717 ppb	14:44:57
2	U 409.014†	-2149.6	-9.0	-0.2809 ug/L	-0.2809 ppb	14:44:37
2	V 292.402†	-1641.3	-78.1	-0.5874 ug/L	-0.5874 ppb	14:44:37
2	Zn 213.857†	802.0	64.6	0.6925 ug/L	0.6925 ppb	14:44:57
2	SiO2†	551.7	41.0	3.0346 ug/L	3.0346 ppb	14:45:33
3	Sc Radial	4827.7	4827.7	99.5 %		14:43:45
3	Y RADIAL	5092.3	5092.3	100.0 %		14:43:45
3	Al 396.153Radial†	-75.5	9.9	9.1906 ug/L	9.1906 ppb	14:44:05
3	Ca 317.933Radial†	26.1	10.8	19.096 ug/L	19.096 ppb	14:44:05
3	Fe 238.204 Radial†	6.1	-2.6	-27.800 ug/L	-27.800 ppb	14:44:05
3	K 766.490 Radial†	2387.7	236.0	45.201 ug/L	45.201 ppb	14:43:45
3	Mg 279.077 IEC†	-0.8	-3.9	-153.30 ug/L	-153.30 ppb	14:44:05
3	Na 589.592 Radial†	-301.6	61.4	20.763 ug/L	20.763 ppb	14:43:45
3	Sr 421.552†	11.1	-9.2	-0.0662 ug/L	-0.0662 ppb	14:43:45
3	Sc 361.383	766106.2	766106.2	96.912 %		14:45:02
3	Y 371.029	683787.4	683787.4	97.006 %		14:45:02
3	Ag 328.068†	181.8	-20.5	-0.1111 ug/L	-0.1111 ppb	14:45:02
3	As 188.979†	-18.9	8.8	3.8658 ug/L	3.8658 ppb	14:45:22
3	B 249.677†	48.1	534.8	12.950 ug/L	12.950 ppb	14:45:22
3	Ba 233.527†	12.5	18.6	0.2091 ug/L	0.2091 ppb	14:45:22
3	Be 313.107†	-10103.6	-153.3	-0.0609 ug/L	-0.0609 ppb	14:45:02
3	Cd 226.502†	-172.5	11.9	0.1663 ug/L	0.1663 ppb	14:45:22
3	Co 228.616†	-69.7	-6.0	-0.1729 ug/L	-0.1729 ppb	14:45:22
3	Cr 267.716†	70.6	10.5	0.1370 ug/L	0.1370 ppb	14:45:22
3	Cu 324.752†	7703.4	233.6	0.8261 ug/L	0.8261 ppb	14:45:02
3	Mn 257.610†	425.1	5.8	0.0124 ug/L	0.0124 ppb	14:45:22
3	Mo 202.031†	15.0	7.3	0.6505 ug/L	0.6505 ppb	14:45:22
3	Ni 231.604†	90.7	25.1	0.7826 ug/L	0.7826 ppb	14:45:22
3	P 214.914†	206.6	-7.8	-4.3803 ug/L	-4.3803 ppb	14:45:22
3	Pb 220.353†	-23.6	36.9	5.8721 ug/L	5.8721 ppb	14:45:22
3	S 181.975 Axial†	43.1	-2.8	-3.5974 ug/L	-3.5974 ppb	14:45:22
3	Sb 206.836†	44.5	11.9	4.5756 ug/L	4.5756 ppb	14:45:22
3	Se 196.026†	-19.6	1.6	0.8976 ug/L	0.8976 ppb	14:45:22
3	Si 251.611†	540.0	21.9	0.7513 ug/L	0.7513 ppb	14:45:22
3	Sn 189.927†	4.9	-0.7	-0.1551 ug/L	-0.1551 ppb	14:45:22
3	Ti 334.940†	-1261.1	-177.3	-0.3248 ug/L	-0.3248 ppb	14:45:02
3	Tl 190.801†	-33.0	-2.8	-1.2401 ug/L	-1.2401 ppb	14:45:22
3	U 409.014†	-2054.4	71.9	2.2802 ug/L	2.2802 ppb	14:45:02
3	V 292.402†	-1557.5	-4.9	-0.0224 ug/L	-0.0224 ppb	14:45:02
3	Zn 213.857†	799.5	68.5	0.7292 ug/L	0.7292 ppb	14:45:22
3	SiO2†	554.6	48.4	3.5805 ug/L	3.5805 ppb	14:45:38

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	770274.9	97.439 %	0.4576			0.47%
Sc Radial	4815.4	99.2 %	0.41			0.41%
Y 371.029	687673.1	97.558 %	0.4782			0.49%
Y RADIAL	5074.2	99.68 %	0.311			0.31%
Ag 328.068†	-11.1	-0.0663 ug/L	0.24386	-0.0663 ppb	0.24386	367.87%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	3.8	3.4739 ug/L	10.25338	3.4739 ppb	10.25338	295.15%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	8.7	3.8123 ug/L	0.53375	3.8123 ppb	0.53375	14.00%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	566.5	13.720 ug/L	0.6820	13.720 ppb	0.6820	4.97%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	21.0	0.2356 ug/L	0.04682	0.2356 ppb	0.04682	19.87%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-143.0	-0.0565 ug/L	0.01184	-0.0565 ppb	0.01184	20.97%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	9.2	16.211 ug/L	2.6581	16.211 ppb	2.6581	16.40%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	10.3	0.1441 ug/L	0.06862	0.1441 ppb	0.06862 47.63%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-8.3	-0.2387 ug/L	0.09032	-0.2387 ppb	0.09032 37.84%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	6.8	0.0875 ug/L	0.07031	0.0875 ppb	0.07031 80.34%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	242.8	0.8590 ug/L	0.05028	0.8590 ppb	0.05028 5.85%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	-2.8	-29.386 ug/L	6.3006	-29.386 ppb	6.3006 21.44%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	231.5	44.341 ug/L	3.9584	44.341 ppb	3.9584 8.93%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-2.1	-84.834 ug/L	59.4618	-84.834 ppb	59.4618 70.09%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	-12.7	-0.0189 ug/L	0.02738	-0.0189 ppb	0.02738 144.53%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	8.2	0.7279 ug/L	0.27631	0.7279 ppb	0.27631 37.96%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	64.4	21.786 ug/L	2.3229	21.786 ppb	2.3229 10.66%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	10.9	0.3394 ug/L	0.41397	0.3394 ppb	0.41397 121.97%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-3.8	-2.2084 ug/L	5.18867	-2.2084 ppb	5.18867 234.95%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	14.6	2.3303 ug/L	3.25351	2.3303 ppb	3.25351 139.62%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-2.0	-2.5448 ug/L	7.98118	-2.5448 ppb	7.98118 313.62%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	8.2	3.1819 ug/L	1.21597	3.1819 ppb	1.21597 38.21%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-1.6	-0.9891 ug/L	1.65420	-0.9891 ppb	1.65420 167.24%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	28.9	0.9912 ug/L	0.25396	0.9912 ppb	0.25396 25.62%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	3.3	0.7718 ug/L	0.80310	0.7718 ppb	0.80310 104.06%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-2.5	-0.0179 ug/L	0.05852	-0.0179 ppb	0.05852 326.15%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-94.2	-0.1715 ug/L	0.13599	-0.1715 ppb	0.13599 79.29%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	-4.8	-2.1703 ug/L	1.93889	-2.1703 ppb	1.93889 89.34%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	49.8	1.5808 ug/L	1.62882	1.5808 ppb	1.62882 103.04%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-46.2	-0.3377 ug/L	0.28813	-0.3377 ppb	0.28813 85.33%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	69.1	0.7388 ug/L	0.05181	0.7388 ppb	0.05181 7.01%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	41.4	3.0539 ug/L	0.51727	3.0539 ppb	0.51727 16.94%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/2/2010 15:43:37

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	4738.0	4738.0	97.6 %		15:45:29
1	Y RADIAL	4951.7	4951.7	97.28 %		15:45:29
1	Al 396.153Radial†	5273.3	5487.6	5087.7 ug/L	5087.7 ppb	15:45:29
1	Ca 317.933Radial†	2809.6	2862.7	5042.0 ug/L	5042.0 ppb	15:45:49
1	Fe 238.204 Radial†	469.7	472.4	4999.9 ug/L	4999.9 ppb	15:45:49
1	K 766.490 Radial†	28414.2	26942.0	5156.3 ug/L	5156.3 ppb	15:45:29
1	Mg 279.077 IEC†	126.4	126.5	5004.2 ug/L	5004.2 ppb	15:45:49
1	Na 589.592 Radial†	27904.9	28949.3	9795.4 ug/L	9795.4 ppb	15:45:29
1	Sr 421.552†	68704.5	70358.1	506.73 ug/L	506.73 ppb	15:45:29
1	Sc 361.383	794685.8	794685.8	100.53 %		15:46:46
1	Y 371.029	700680.8	700680.8	99.403 %		15:46:46
1	Ag 328.068†	100383.9	99649.4	491.32 ug/L	491.32 ppb	15:46:52
1	As 188.979†	1105.5	1128.0	498.58 ug/L	498.58 ppb	15:47:12
1	B 249.677†	19932.8	20313.4	489.48 ug/L	489.48 ppb	15:46:52
1	Ba 233.527†	43834.6	43610.3	494.48 ug/L	494.48 ppb	15:46:52
1	Be 313.107†	1254847.0	1258537.5	494.60 ug/L	494.60 ppb	15:46:46
1	Cd 226.502†	36247.0	36246.8	496.33 ug/L	496.33 ppb	15:46:52
1	Co 228.616†	17471.2	17445.5	507.01 ug/L	507.01 ppb	15:46:52
1	Cr 267.716†	37516.8	37257.6	492.69 ug/L	492.69 ppb	15:46:52
1	Cu 324.752†	145964.7	137483.9	487.80 ug/L	487.80 ppb	15:46:52
1	Mn 257.610†	323744.6	321613.6	493.60 ug/L	493.60 ppb	15:46:52
1	Mo 202.031†	5491.6	5454.6	487.56 ug/L	487.56 ppb	15:47:12
1	Ni 231.604†	16407.4	16252.9	506.38 ug/L	506.38 ppb	15:46:52
1	P 214.914†	4737.3	4491.5	2338.8 ug/L	2338.8 ppb	15:47:12
1	Pb 220.353†	3036.2	3081.6	491.16 ug/L	491.16 ppb	15:47:12
1	S 181.975 Axial†	810.4	758.9	973.09 ug/L	973.09 ppb	15:47:12
1	Sb 206.836†	1304.2	1263.3	502.58 ug/L	502.58 ppb	15:47:12
1	Se 196.026†	809.5	827.1	499.46 ug/L	499.46 ppb	15:47:12
1	Si 251.611†	72319.8	71405.2	2465.4 ug/L	2465.4 ppb	15:46:52
1	Sn 189.927†	2134.5	2117.5	486.98 ug/L	486.98 ppb	15:47:12
1	Ti 334.940†	256310.3	256089.9	489.13 ug/L	489.13 ppb	15:46:52
1	Tl 190.801†	1067.7	1093.3	494.84 ug/L	494.84 ppb	15:47:12
1	U 409.014†	13323.6	15445.5	487.51 ug/L	487.51 ppb	15:46:52
1	V 292.402†	62843.1	64115.7	497.77 ug/L	497.77 ppb	15:46:52
1	Zn 213.857†	47206.5	46202.4	488.54 ug/L	488.54 ppb	15:46:52
1	SiO2†	72128.1	71225.9	5278.1 ug/L	5278.1 ppb	15:48:19
2	Sc Radial	4752.4	4752.4	97.9 %		15:45:54
2	Y RADIAL	4995.0	4995.0	98.13 %		15:45:54
2	Al 396.153Radial†	5180.4	5376.3	4983.8 ug/L	4983.8 ppb	15:45:54
2	Ca 317.933Radial†	2815.4	2859.8	5036.9 ug/L	5036.9 ppb	15:46:14
2	Fe 238.204 Radial†	463.9	465.0	4921.6 ug/L	4921.6 ppb	15:46:14
2	K 766.490 Radial†	28077.6	26509.7	5073.6 ug/L	5073.6 ppb	15:45:54
2	Mg 279.077 IEC†	127.6	127.3	5036.1 ug/L	5036.1 ppb	15:46:14
2	Na 589.592 Radial†	27374.9	28321.2	9582.8 ug/L	9582.8 ppb	15:45:54
2	Sr 421.552†	67663.7	69081.1	497.53 ug/L	497.53 ppb	15:45:54
2	Sc 361.383	788207.2	788207.2	99.708 %		15:47:17
2	Y 371.029	695403.0	695403.0	98.654 %		15:47:17
2	Ag 328.068†	99096.0	99178.4	488.99 ug/L	488.99 ppb	15:47:23
2	As 188.979†	1112.5	1144.1	505.54 ug/L	505.54 ppb	15:47:43
2	B 249.677†	19728.3	20271.2	488.49 ug/L	488.49 ppb	15:47:23
2	Ba 233.527†	43198.1	43330.4	491.31 ug/L	491.31 ppb	15:47:23
2	Be 313.107†	1244925.4	1258846.8	494.72 ug/L	494.72 ppb	15:47:17
2	Cd 226.502†	35633.3	35927.6	491.97 ug/L	491.97 ppb	15:47:23
2	Co 228.616†	17139.3	17255.4	501.51 ug/L	501.51 ppb	15:47:23
2	Cr 267.716†	36994.3	37040.3	489.81 ug/L	489.81 ppb	15:47:23
2	Cu 324.752†	144001.7	136708.5	485.04 ug/L	485.04 ppb	15:47:23
2	Mn 257.610†	318677.8	319179.0	489.86 ug/L	489.86 ppb	15:47:23
2	Mo 202.031†	5522.5	5530.6	494.34 ug/L	494.34 ppb	15:47:43
2	Ni 231.604†	16122.4	16101.2	501.65 ug/L	501.65 ppb	15:47:23

2	P 214.914†	4787.0	4580.0	2387.4 ug/L	2387.4 ppb	15:47:43
2	Pb 220.353†	3071.2	3141.5	500.67 ug/L	500.67 ppb	15:47:43
2	S 181.975 Axial†	815.3	770.5	987.96 ug/L	987.96 ppb	15:47:43
2	Sb 206.836†	1308.8	1278.6	508.70 ug/L	508.70 ppb	15:47:43
2	Se 196.026†	818.5	842.8	508.48 ug/L	508.48 ppb	15:47:43
2	Si 251.611†	71241.5	70915.0	2448.3 ug/L	2448.3 ppb	15:47:23
2	Sn 189.927†	2142.5	2143.0	492.84 ug/L	492.84 ppb	15:47:43
2	Ti 334.940†	252752.2	254617.0	486.32 ug/L	486.32 ppb	15:47:23
2	Tl 190.801†	1061.5	1095.8	495.96 ug/L	495.96 ppb	15:47:43
2	U 409.014†	13085.3	15315.4	483.41 ug/L	483.41 ppb	15:47:23
2	V 292.402†	62095.9	63880.1	496.06 ug/L	496.06 ppb	15:47:23
2	Zn 213.857†	46515.2	45895.1	485.30 ug/L	485.30 ppb	15:47:23
2	SiO2†	72051.5	71738.9	5316.0 ug/L	5316.0 ppb	15:48:24
3	Sc Radial	4775.6	4775.6	98.4 %		15:46:19
3	Y RADIAL	4970.6	4970.6	97.65 %		15:46:19
3	Al 396.153Radial†	5146.8	5316.4	4927.8 ug/L	4927.8 ppb	15:46:19
3	Ca 317.933Radial†	2804.9	2835.2	4993.5 ug/L	4993.5 ppb	15:46:40
3	Fe 238.204 Radial†	467.5	466.4	4936.9 ug/L	4936.9 ppb	15:46:40
3	K 766.490 Radial†	28047.7	26340.1	5041.1 ug/L	5041.1 ppb	15:46:19
3	Mg 279.077 IEC†	127.2	126.3	4996.8 ug/L	4996.8 ppb	15:46:40
3	Na 589.592 Radial†	27358.6	28168.8	9531.3 ug/L	9531.3 ppb	15:46:19
3	Sr 421.552†	67397.5	68474.9	493.17 ug/L	493.17 ppb	15:46:19
3	Sc 361.383	786800.4	786800.4	99.530 %		15:47:48
3	Y 371.029	695225.6	695225.6	98.629 %		15:47:48
3	Ag 328.068†	99785.9	100049.3	493.28 ug/L	493.28 ppb	15:47:53
3	As 188.979†	1109.2	1142.8	505.02 ug/L	505.02 ppb	15:48:13
3	B 249.677†	19879.7	20458.8	493.01 ug/L	493.01 ppb	15:47:53
3	Ba 233.527†	43603.8	43815.5	496.81 ug/L	496.81 ppb	15:47:53
3	Be 313.107†	1243364.8	1259511.4	494.99 ug/L	494.99 ppb	15:47:48
3	Cd 226.502†	35995.6	36355.5	497.83 ug/L	497.83 ppb	15:47:53
3	Co 228.616†	17334.0	17481.7	508.09 ug/L	508.09 ppb	15:47:53
3	Cr 267.716†	37341.2	37455.2	495.30 ug/L	495.30 ppb	15:47:53
3	Cu 324.752†	144996.3	137966.1	489.50 ug/L	489.50 ppb	15:47:53
3	Mn 257.610†	321832.7	322920.3	495.60 ug/L	495.60 ppb	15:47:53
3	Mo 202.031†	5554.3	5572.4	498.07 ug/L	498.07 ppb	15:48:13
3	Ni 231.604†	16283.9	16292.3	507.61 ug/L	507.61 ppb	15:47:53
3	P 214.914†	4810.3	4612.0	2403.8 ug/L	2403.8 ppb	15:48:13
3	Pb 220.353†	3083.3	3159.2	503.47 ug/L	503.47 ppb	15:48:13
3	S 181.975 Axial†	821.0	777.6	997.10 ug/L	997.10 ppb	15:48:13
3	Sb 206.836†	1329.2	1301.5	517.63 ug/L	517.63 ppb	15:48:13
3	Se 196.026†	820.8	846.5	510.74 ug/L	510.74 ppb	15:48:13
3	Si 251.611†	71898.0	71702.4	2475.6 ug/L	2475.6 ppb	15:47:53
3	Sn 189.927†	2155.7	2160.1	496.77 ug/L	496.77 ppb	15:48:13
3	Ti 334.940†	254817.1	257144.9	491.14 ug/L	491.14 ppb	15:47:53
3	Tl 190.801†	1077.0	1113.4	503.88 ug/L	503.88 ppb	15:48:13
3	U 409.014†	13283.0	15537.5	490.43 ug/L	490.43 ppb	15:47:53
3	V 292.402†	62620.4	64518.5	501.01 ug/L	501.01 ppb	15:47:53
3	Zn 213.857†	46998.2	46463.8	491.33 ug/L	491.33 ppb	15:47:53
3	SiO2†	72938.0	72758.8	5391.6 ug/L	5391.6 ppb	15:48:29

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	789897.8	99.922 %	0.5320			0.53%
Sc Radial	4755.4	98.0 %	0.39			0.40%
Y 371.029	697103.2	98.895 %	0.4397			0.44%
Y RADIAL	4972.4	97.68 %	0.426			0.44%
Ag 328.068†	99625.7	491.20 ug/L	2.146	491.20 ppb	2.146	0.44%
QC value within limits for Ag 328.068 Recovery = 98.24%						
Al 396.153Radial†	5393.4	4999.8 ug/L	81.17	4999.8 ppb	81.17	1.62%
QC value within limits for Al 396.153Radial Recovery = 100.00%						
As 188.979†	1138.3	503.05 ug/L	3.879	503.05 ppb	3.879	0.77%
QC value within limits for As 188.979 Recovery = 100.61%						
B 249.677†	20347.8	490.33 ug/L	2.375	490.33 ppb	2.375	0.48%
QC value within limits for B 249.677 Recovery = 98.07%						
Ba 233.527†	43585.4	494.20 ug/L	2.760	494.20 ppb	2.760	0.56%
QC value within limits for Ba 233.527 Recovery = 98.84%						
Be 313.107†	1258965.2	494.77 ug/L	0.198	494.77 ppb	0.198	0.04%
QC value within limits for Be 313.107 Recovery = 98.95%						
Ca 317.933Radial†	2852.6	5024.1 ug/L	26.67	5024.1 ppb	26.67	0.53%

QC value within limits for Ca 317.933 Radial Recovery = 100.48%

Cd 226.502†	36176.6	495.38 ug/L	3.047	495.38 ppb	3.047	0.62%
QC value within limits for Cd 226.502 Recovery = 99.08%						
Co 228.616†	17394.2	505.54 ug/L	3.527	505.54 ppb	3.527	0.70%
QC value within limits for Co 228.616 Recovery = 101.11%						
Cr 267.716†	37251.1	492.60 ug/L	2.744	492.60 ppb	2.744	0.56%
QC value within limits for Cr 267.716 Recovery = 98.52%						
Cu 324.752†	137386.2	487.45 ug/L	2.250	487.45 ppb	2.250	0.46%
QC value within limits for Cu 324.752 Recovery = 97.49%						
Fe 238.204 Radial†	467.9	4952.8 ug/L	41.50	4952.8 ppb	41.50	0.84%
QC value within limits for Fe 238.204 Radial Recovery = 99.06%						
K 766.490 Radial†	26597.2	5090.3 ug/L	59.41	5090.3 ppb	59.41	1.17%
QC value within limits for K 766.490 Radial Recovery = 101.81%						
Mg 279.077 IEC†	126.7	5012.4 ug/L	20.88	5012.4 ppb	20.88	0.42%
QC value within limits for Mg 279.077 IEC Recovery = 100.25%						
Mn 257.610†	321237.7	493.02 ug/L	2.915	493.02 ppb	2.915	0.59%
QC value within limits for Mn 257.610 Recovery = 98.60%						
Mo 202.031†	5519.2	493.33 ug/L	5.328	493.33 ppb	5.328	1.08%
QC value within limits for Mo 202.031 Recovery = 98.67%						
Na 589.592 Radial†	28479.8	9636.5 ug/L	139.98	9636.5 ppb	139.98	1.45%
QC value within limits for Na 589.592 Radial Recovery = 96.37%						
Ni 231.604†	16215.5	505.21 ug/L	3.144	505.21 ppb	3.144	0.62%
QC value within limits for Ni 231.604 Recovery = 101.04%						
P 214.914†	4561.2	2376.6 ug/L	33.82	2376.6 ppb	33.82	1.42%
QC value within limits for P 214.914 Recovery = 95.07%						
Pb 220.353†	3127.5	498.43 ug/L	6.452	498.43 ppb	6.452	1.29%
QC value within limits for Pb 220.353 Recovery = 99.69%						
S 181.975 Axial†	769.0	986.05 ug/L	12.122	986.05 ppb	12.122	1.23%
QC value within limits for S 181.975 Axial Recovery = 98.61%						
Sb 206.836†	1281.2	509.63 ug/L	7.567	509.63 ppb	7.567	1.48%
QC value within limits for Sb 206.836 Recovery = 101.93%						
Se 196.026†	838.8	506.23 ug/L	5.969	506.23 ppb	5.969	1.18%
QC value within limits for Se 196.026 Recovery = 101.25%						
Si 251.611†	71340.8	2463.1 ug/L	13.75	2463.1 ppb	13.75	0.56%
QC value within limits for Si 251.611 Recovery = 98.52%						
Sn 189.927†	2140.2	492.20 ug/L	4.925	492.20 ppb	4.925	1.00%
QC value within limits for Sn 189.927 Recovery = 98.44%						
Sr 421.552†	69304.7	499.14 ug/L	6.924	499.14 ppb	6.924	1.39%
QC value within limits for Sr 421.552 Recovery = 99.83%						
Ti 334.940†	255950.6	488.86 ug/L	2.422	488.86 ppb	2.422	0.50%
QC value within limits for Ti 334.940 Recovery = 97.77%						
Tl 190.801†	1100.8	498.23 ug/L	4.928	498.23 ppb	4.928	0.99%
QC value within limits for Tl 190.801 Recovery = 99.65%						
U 409.014†	15432.8	487.12 ug/L	3.527	487.12 ppb	3.527	0.72%
QC value within limits for U 409.014 Recovery = 97.42%						
V 292.402†	64171.4	498.28 ug/L	2.514	498.28 ppb	2.514	0.50%
QC value within limits for V 292.402 Recovery = 99.66%						
Zn 213.857†	46187.1	488.39 ug/L	3.015	488.39 ppb	3.015	0.62%
QC value within limits for Zn 213.857 Recovery = 97.68%						
SiO2†	71907.8	5328.6 ug/L	57.83	5328.6 ppb	57.83	1.09%
QC value within limits for SiO2 Recovery = 99.65%						

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/2/2010 15:50:40

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	4755.2	4755.2	98.0 %		15:52:32
1	Y RADIAL	5018.8	5018.8	98.59 %		15:52:32
1	Al 396.153Radial†	-76.3	8.0	7.4431 ug/L	7.4431 ppb	15:52:52
1	Ca 317.933Radial†	25.4	10.5	18.534 ug/L	18.534 ppb	15:52:52
1	Fe 238.204 Radial†	6.6	-2.0	-20.739 ug/L	-20.739 ppb	15:52:52
1	K 766.490 Radial†	2315.5	198.9	38.090 ug/L	38.090 ppb	15:52:52
1	Mg 279.077 IEC†	1.1	-1.9	-76.105 ug/L	-76.105 ppb	15:52:52
1	Na 589.592 Radial†	-289.5	69.1	23.396 ug/L	23.396 ppb	15:52:32
1	Sr 421.552†	12.9	-7.2	-0.0518 ug/L	-0.0518 ppb	15:52:32
1	Sc 361.383	765451.1	765451.1	96.829 %		15:53:49
1	Y 371.029	682168.0	682168.0	96.777 %		15:53:49
1	Ag 328.068†	103.3	-101.4	-0.5098 ug/L	-0.5098 ppb	15:53:49
1	As 188.979†	-29.9	-2.6	-1.1495 ug/L	-1.1495 ppb	15:54:09
1	B 249.677†	-198.5	280.1	6.7846 ug/L	6.7846 ppb	15:54:09
1	Ba 233.527†	33.6	40.4	0.4545 ug/L	0.4545 ppb	15:54:09
1	Be 313.107†	-10254.4	-318.0	-0.1249 ug/L	-0.1249 ppb	15:53:49
1	Cd 226.502†	-187.4	-3.8	-0.0483 ug/L	-0.0483 ppb	15:54:09
1	Co 228.616†	-65.3	-1.6	-0.0443 ug/L	-0.0443 ppb	15:54:09
1	Cr 267.716†	60.3	-0.1	-0.0043 ug/L	-0.0043 ppb	15:54:09
1	Cu 324.752†	7631.9	166.6	0.5877 ug/L	0.5877 ppb	15:53:49
1	Mn 257.610†	520.8	105.0	0.1621 ug/L	0.1621 ppb	15:54:09
1	Mo 202.031†	8.1	0.2	0.0184 ug/L	0.0184 ppb	15:54:09
1	Ni 231.604†	76.6	10.6	0.3313 ug/L	0.3313 ppb	15:54:09
1	P 214.914†	207.0	-7.2	-3.9953 ug/L	-3.9953 ppb	15:54:09
1	Pb 220.353†	-57.9	1.5	0.2457 ug/L	0.2457 ppb	15:54:09
1	S 181.975 Axial†	40.6	-5.3	-6.7845 ug/L	-6.7845 ppb	15:54:09
1	Sb 206.836†	30.7	-2.3	-0.8831 ug/L	-0.8831 ppb	15:54:09
1	Se 196.026†	-16.5	4.8	2.8016 ug/L	2.8016 ppb	15:54:09
1	Si 251.611†	690.7	178.0	6.1604 ug/L	6.1604 ppb	15:54:09
1	Sn 189.927†	5.6	0.1	0.0163 ug/L	0.0163 ppb	15:54:09
1	Ti 334.940†	-1130.5	-43.5	-0.0762 ug/L	-0.0762 ppb	15:53:49
1	Tl 190.801†	-29.3	1.0	0.4424 ug/L	0.4424 ppb	15:54:09
1	U 409.014†	-1996.8	129.5	4.1039 ug/L	4.1039 ppb	15:53:49
1	V 292.402†	-1651.2	-103.0	-0.7795 ug/L	-0.7795 ppb	15:53:49
1	Zn 213.857†	799.7	69.4	0.7410 ug/L	0.7410 ppb	15:54:09
1	SiO2†	661.7	159.5	11.847 ug/L	11.847 ppb	15:55:05
2	Sc Radial	4848.1	4848.1	99.9 %		15:52:57
2	Y RADIAL	5132.6	5132.6	100.8 %		15:52:57
2	Al 396.153Radial†	-67.2	18.6	17.345 ug/L	17.345 ppb	15:53:17
2	Ca 317.933Radial†	22.8	7.5	13.179 ug/L	13.179 ppb	15:53:17
2	Fe 238.204 Radial†	5.6	-3.2	-33.461 ug/L	-33.461 ppb	15:53:17
2	K 766.490 Radial†	2194.3	32.2	6.1606 ug/L	6.1606 ppb	15:52:57
2	Mg 279.077 IEC†	0.7	-2.3	-91.585 ug/L	-91.585 ppb	15:53:17
2	Na 589.592 Radial†	-351.9	12.3	4.1528 ug/L	4.1528 ppb	15:52:57
2	Sr 421.552†	60.9	40.7	0.2930 ug/L	0.2930 ppb	15:52:57
2	Sc 361.383	766261.9	766261.9	96.932 %		15:54:14
2	Y 371.029	683384.7	683384.7	96.949 %		15:54:14
2	Ag 328.068†	106.8	-97.8	-0.4886 ug/L	-0.4886 ppb	15:54:14
2	As 188.979†	-30.5	-3.1	-1.3782 ug/L	-1.3782 ppb	15:54:34
2	B 249.677†	-177.3	302.3	7.3232 ug/L	7.3232 ppb	15:54:34
2	Ba 233.527†	36.9	43.8	0.4932 ug/L	0.4932 ppb	15:54:34
2	Be 313.107†	-10164.4	-213.8	-0.0832 ug/L	-0.0832 ppb	15:54:14
2	Cd 226.502†	-176.1	8.2	0.1145 ug/L	0.1145 ppb	15:54:34
2	Co 228.616†	-66.2	-2.5	-0.0717 ug/L	-0.0717 ppb	15:54:34
2	Cr 267.716†	50.0	-10.9	-0.1433 ug/L	-0.1433 ppb	15:54:34
2	Cu 324.752†	7710.4	239.2	0.8488 ug/L	0.8488 ppb	15:54:14
2	Mn 257.610†	518.4	101.9	0.1568 ug/L	0.1568 ppb	15:54:34
2	Mo 202.031†	4.9	-3.1	-0.2755 ug/L	-0.2755 ppb	15:54:34
2	Ni 231.604†	56.9	-9.8	-0.3055 ug/L	-0.3055 ppb	15:54:34

2	P 214.914†	212.8	-1.4	-0.8812 ug/L	-0.8812 ppb	15:54:34
2	Pb 220.353†	-63.8	-4.5	-0.7012 ug/L	-0.7012 ppb	15:54:34
2	S 181.975 Axial†	47.5	1.7	2.1981 ug/L	2.1981 ppb	15:54:34
2	Sb 206.836†	34.1	1.2	0.4926 ug/L	0.4926 ppb	15:54:34
2	Se 196.026†	-28.5	-7.5	-4.5004 ug/L	-4.5004 ppb	15:54:34
2	Si 251.611†	696.3	183.0	6.3386 ug/L	6.3386 ppb	15:54:34
2	Sn 189.927†	15.6	10.3	2.3698 ug/L	2.3698 ppb	15:54:34
2	Ti 334.940†	-951.3	142.5	0.2830 ug/L	0.2830 ppb	15:54:14
2	Tl 190.801†	-44.1	-14.2	-6.3799 ug/L	-6.3799 ppb	15:54:34
2	U 409.014†	-2219.6	-98.1	-3.1031 ug/L	-3.1031 ppb	15:54:14
2	V 292.402†	-1592.5	-40.7	-0.3189 ug/L	-0.3189 ppb	15:54:14
2	Zn 213.857†	795.9	64.7	0.6963 ug/L	0.6963 ppb	15:54:34
2	SiO2†	740.7	240.3	17.861 ug/L	17.861 ppb	15:55:10
3	Sc Radial	4788.7	4788.7	98.7 %		15:53:22
3	Y RADIAL	5001.6	5001.6	98.26 %		15:53:22
3	Al 396.153Radial†	-68.6	16.3	15.159 ug/L	15.159 ppb	15:53:42
3	Ca 317.933Radial†	25.3	10.3	18.139 ug/L	18.139 ppb	15:53:42
3	Fe 238.204 Radial†	9.5	0.9	9.6956 ug/L	9.6956 ppb	15:53:42
3	K 766.490 Radial†	2248.6	114.5	21.929 ug/L	21.929 ppb	15:53:22
3	Mg 279.077 IEC†	1.4	-1.6	-65.066 ug/L	-65.066 ppb	15:53:42
3	Na 589.592 Radial†	-350.8	9.1	3.0758 ug/L	3.0758 ppb	15:53:22
3	Sr 421.552†	21.5	1.5	0.0108 ug/L	0.0108 ppb	15:53:22
3	Sc 361.383	768443.1	768443.1	97.208 %		15:54:40
3	Y 371.029	686045.2	686045.2	97.327 %		15:54:40
3	Ag 328.068†	199.9	-2.4	-0.0059 ug/L	-0.0059 ppb	15:54:40
3	As 188.979†	-30.5	-3.0	-1.3244 ug/L	-1.3244 ppb	15:55:00
3	B 249.677†	-166.5	313.9	7.5959 ug/L	7.5959 ppb	15:55:00
3	Ba 233.527†	29.9	36.4	0.4121 ug/L	0.4121 ppb	15:55:00
3	Be 313.107†	-10144.2	-163.3	-0.0639 ug/L	-0.0639 ppb	15:54:40
3	Cd 226.502†	-193.3	-9.0	-0.1253 ug/L	-0.1253 ppb	15:55:00
3	Co 228.616†	-61.7	2.4	0.0728 ug/L	0.0728 ppb	15:55:00
3	Cr 267.716†	68.7	8.2	0.1103 ug/L	0.1103 ppb	15:55:00
3	Cu 324.752†	7711.7	217.9	0.7762 ug/L	0.7762 ppb	15:54:40
3	Mn 257.610†	528.9	111.2	0.1742 ug/L	0.1742 ppb	15:55:00
3	Mo 202.031†	19.9	12.3	1.0991 ug/L	1.0991 ppb	15:55:00
3	Ni 231.604†	75.2	8.9	0.2779 ug/L	0.2779 ppb	15:55:00
3	P 214.914†	215.4	0.6	0.1654 ug/L	0.1654 ppb	15:55:00
3	Pb 220.353†	-38.7	21.6	3.4305 ug/L	3.4305 ppb	15:55:00
3	S 181.975 Axial†	43.2	-2.8	-3.6353 ug/L	-3.6353 ppb	15:55:00
3	Sb 206.836†	36.9	3.9	1.5480 ug/L	1.5480 ppb	15:55:00
3	Se 196.026†	-21.3	-0.0	0.0156 ug/L	0.0156 ppb	15:55:00
3	Si 251.611†	692.0	176.6	6.0980 ug/L	6.0980 ppb	15:55:00
3	Sn 189.927†	9.9	4.4	1.0168 ug/L	1.0168 ppb	15:55:00
3	Ti 334.940†	-1064.9	28.5	0.0640 ug/L	0.0640 ppb	15:54:40
3	Tl 190.801†	-26.3	4.2	1.8801 ug/L	1.8801 ppb	15:55:00
3	U 409.014†	-2261.3	-134.6	-4.2634 ug/L	-4.2634 ppb	15:54:40
3	V 292.402†	-1570.1	-13.0	-0.0951 ug/L	-0.0951 ppb	15:54:40
3	Zn 213.857†	794.1	60.5	0.6417 ug/L	0.6417 ppb	15:55:00
3	SiO2†	744.9	242.5	17.983 ug/L	17.983 ppb	15:55:15

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	766718.7	96.989 %	0.1957			0.20%
Sc Radial	4797.4	98.8 %	0.97			0.98%
Y 371.029	683866.0	97.017 %	0.2813			0.29%
Y RADIAL	5051.0	99.23 %	1.399			1.41%
Ag 328.068†	-67.2	-0.3348 ug/L	0.28498	-0.3348 ppb	0.28498	85.12%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	14.3	13.315 ug/L	5.2017	13.315 ppb	5.2017	39.07%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.9	-1.2840 ug/L	0.11956	-1.2840 ppb	0.11956	9.31%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	298.8	7.2346 ug/L	0.41284	7.2346 ppb	0.41284	5.71%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	40.2	0.4533 ug/L	0.04055	0.4533 ppb	0.04055	8.95%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-231.7	-0.0907 ug/L	0.03116	-0.0907 ppb	0.03116	34.36%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	9.4	16.617 ug/L	2.9842	16.617 ppb	2.9842	17.96%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-1.5	-0.0197 ug/L	0.12244	-0.0197 ppb	0.12244	620.41%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-0.5	-0.0144 ug/L	0.07677	-0.0144 ppb	0.07677	532.29%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-0.9	-0.0125 ug/L	0.12700	-0.0125 ppb	0.12700	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	207.9	0.7376 ug/L	0.13473	0.7376 ppb	0.13473	18.27%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-1.4	-14.835 ug/L	22.1759	-14.835 ppb	22.1759	149.49%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	115.2	22.060 ug/L	15.9649	22.060 ppb	15.9649	72.37%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-2.0	-77.585 ug/L	13.3211	-77.585 ppb	13.3211	17.17%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	106.0	0.1644 ug/L	0.00893	0.1644 ppb	0.00893	5.44%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	3.2	0.2807 ug/L	0.72383	0.2807 ppb	0.72383	257.87%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	30.2	10.208 ug/L	11.4334	10.208 ppb	11.4334	112.00%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	3.2	0.1012 ug/L	0.35326	0.1012 ppb	0.35326	348.99%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-2.7	-1.5704 ug/L	2.16425	-1.5704 ppb	2.16425	137.82%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	6.2	0.9917 ug/L	2.16450	0.9917 ppb	2.16450	218.27%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-2.1	-2.7405 ug/L	4.55764	-2.7405 ppb	4.55764	166.30%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	0.9	0.3859 ug/L	1.21906	0.3859 ppb	1.21906	315.93%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-0.9	-0.5611 ug/L	3.68499	-0.5611 ppb	3.68499	656.78%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	179.2	6.1990 ug/L	0.12487	6.1990 ppb	0.12487	2.01%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	4.9	1.1343 ug/L	1.18116	1.1343 ppb	1.18116	104.13%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	11.7	0.0840 ug/L	0.18369	0.0840 ppb	0.18369	218.65%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	42.5	0.0902 ug/L	0.18104	0.0902 ppb	0.18104	200.64%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-3.0	-1.3525 ug/L	4.41284	-1.3525 ppb	4.41284	326.28%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-34.4	-1.0875 ug/L	4.53319	-1.0875 ppb	4.53319	416.84%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-52.2	-0.3978 ug/L	0.34899	-0.3978 ppb	0.34899	87.73%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	64.9	0.6930 ug/L	0.04973	0.6930 ppb	0.04973	7.18%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	214.1	15.897 ug/L	3.5076	15.897 ppb	3.5076	22.06%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 16

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/2/2010 16:46:02

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4830.3	4830.3	99.5 %		16:47:55
1	Y RADIAL	5102.5	5102.5	100.2 %		16:47:55
1	Al 396.153Radial†	5196.6	5307.3	4919.2 ug/L	4919.2 ppb	16:47:55
1	Ca 317.933Radial†	2856.0	2854.2	5027.0 ug/L	5027.0 ppb	16:48:15
1	Fe 238.204 Radial†	490.6	484.2	5124.5 ug/L	5124.5 ppb	16:48:15
1	K 766.490 Radial†	28303.5	26274.4	5028.1 ug/L	5028.1 ppb	16:47:55
1	Mg 279.077 IEC†	128.8	126.3	4999.5 ug/L	4999.5 ppb	16:48:15
1	Na 589.592 Radial†	30404.6	30914.7	10460 ug/L	10460 ppb	16:47:55
1	Sr 421.552†	71049.7	71369.2	514.02 ug/L	514.02 ppb	16:47:55
1	Sc 361.383	786851.3	786851.3	99.536 %		16:49:12
1	Y 371.029	696250.4	696250.4	98.774 %		16:49:12
1	Ag 328.068†	100665.8	100926.8	497.65 ug/L	497.65 ppb	16:49:17
1	As 188.979†	1119.6	1153.1	509.62 ug/L	509.62 ppb	16:49:37
1	B 249.677†	19731.7	20308.8	489.35 ug/L	489.35 ppb	16:49:17
1	Ba 233.527†	43691.3	43900.6	497.79 ug/L	497.79 ppb	16:49:17
1	Be 313.107†	1256061.6	1272186.5	499.96 ug/L	499.96 ppb	16:49:12
1	Cd 226.502†	36180.6	36539.0	500.33 ug/L	500.33 ppb	16:49:17
1	Co 228.616†	17391.5	17538.4	509.73 ug/L	509.73 ppb	16:49:17
1	Cr 267.716†	37712.6	37825.9	500.20 ug/L	500.20 ppb	16:49:17
1	Cu 324.752†	146113.8	139079.4	493.46 ug/L	493.46 ppb	16:49:17
1	Mn 257.610†	323154.1	324226.9	497.62 ug/L	497.62 ppb	16:49:17
1	Mo 202.031†	5573.7	5591.6	499.80 ug/L	499.80 ppb	16:49:37
1	Ni 231.604†	16385.9	16393.7	510.77 ug/L	510.77 ppb	16:49:17
1	P 214.914†	4786.0	4587.4	2389.5 ug/L	2389.5 ppb	16:49:37
1	Pb 220.353†	3069.2	3144.9	501.18 ug/L	501.18 ppb	16:49:37
1	S 181.975 Axial†	823.9	780.5	1000.9 ug/L	1000.9 ppb	16:49:37
1	Sb 206.836†	1321.7	1293.9	514.66 ug/L	514.66 ppb	16:49:37
1	Se 196.026†	820.4	846.1	510.90 ug/L	510.90 ppb	16:49:37
1	Si 251.611†	72125.8	71926.5	2483.3 ug/L	2483.3 ppb	16:49:17
1	Sn 189.927†	2135.9	2140.1	492.15 ug/L	492.15 ppb	16:49:37
1	Ti 334.940†	256024.3	258341.2	493.43 ug/L	493.43 ppb	16:49:17
1	Tl 190.801†	1079.3	1115.6	504.90 ug/L	504.90 ppb	16:49:37
1	U 409.014†	13294.5	15548.2	490.73 ug/L	490.73 ppb	16:49:17
1	V 292.402†	63178.1	65074.7	505.27 ug/L	505.27 ppb	16:49:17
1	Zn 213.857†	47292.5	46756.4	494.40 ug/L	494.40 ppb	16:49:17
1	SiO2†	70973.1	70780.0	5244.6 ug/L	5244.6 ppb	16:50:44
2	Sc Radial	4864.6	4864.6	100 %		16:48:20
2	Y RADIAL	5081.2	5081.2	99.82 %		16:48:20
2	Al 396.153Radial†	5212.0	5285.9	4899.1 ug/L	4899.1 ppb	16:48:20
2	Ca 317.933Radial†	2856.6	2834.7	4992.6 ug/L	4992.6 ppb	16:48:40
2	Fe 238.204 Radial†	491.9	482.0	5102.0 ug/L	5102.0 ppb	16:48:40
2	K 766.490 Radial†	28473.1	26243.2	5022.1 ug/L	5022.1 ppb	16:48:20
2	Mg 279.077 IEC†	133.8	130.4	5161.5 ug/L	5161.5 ppb	16:48:40
2	Na 589.592 Radial†	30614.9	30909.2	10459 ug/L	10459 ppb	16:48:20
2	Sr 421.552†	71462.2	71277.8	513.36 ug/L	513.36 ppb	16:48:20
2	Sc 361.383	783708.5	783708.5	99.139 %		16:49:43
2	Y 371.029	692740.4	692740.4	98.276 %		16:49:43
2	Ag 328.068†	100302.5	100965.9	497.83 ug/L	497.83 ppb	16:49:48
2	As 188.979†	1102.3	1140.2	503.94 ug/L	503.94 ppb	16:50:08
2	B 249.677†	19708.7	20365.1	490.71 ug/L	490.71 ppb	16:49:48
2	Ba 233.527†	43610.1	43994.6	498.85 ug/L	498.85 ppb	16:49:48
2	Be 313.107†	1252563.3	1273718.3	500.57 ug/L	500.57 ppb	16:49:43
2	Cd 226.502†	36061.3	36564.5	500.68 ug/L	500.68 ppb	16:49:48
2	Co 228.616†	17339.3	17555.8	510.24 ug/L	510.24 ppb	16:49:48
2	Cr 267.716†	37532.3	37795.9	499.81 ug/L	499.81 ppb	16:49:48
2	Cu 324.752†	145116.0	138661.6	491.98 ug/L	491.98 ppb	16:49:48
2	Mn 257.610†	321980.2	324344.8	497.79 ug/L	497.79 ppb	16:49:48
2	Mo 202.031†	5573.3	5613.5	501.76 ug/L	501.76 ppb	16:50:08
2	Ni 231.604†	16282.2	16355.2	509.56 ug/L	509.56 ppb	16:49:48

2	P 214.914†	4768.9	4589.4	2390.9 ug/L	2390.9 ppb	16:50:08
2	Pb 220.353†	3052.5	3140.4	500.47 ug/L	500.47 ppb	16:50:08
2	S 181.975 Axial†	817.4	777.3	996.73 ug/L	996.73 ppb	16:50:08
2	Sb 206.836†	1321.6	1299.1	516.71 ug/L	516.71 ppb	16:50:08
2	Se 196.026†	819.0	848.0	511.98 ug/L	511.98 ppb	16:50:08
2	Si 251.611†	71698.3	71785.9	2478.4 ug/L	2478.4 ppb	16:49:48
2	Sn 189.927†	2132.0	2144.8	493.23 ug/L	493.23 ppb	16:50:08
2	Ti 334.940†	255089.3	258429.6	493.58 ug/L	493.58 ppb	16:49:48
2	Tl 190.801†	1064.3	1104.8	500.02 ug/L	500.02 ppb	16:50:08
2	U 409.014†	13150.3	15456.3	487.83 ug/L	487.83 ppb	16:49:48
2	V 292.402†	62751.2	64898.6	503.95 ug/L	503.95 ppb	16:49:48
2	Zn 213.857†	47114.8	46767.7	494.53 ug/L	494.53 ppb	16:49:48
2	SiO2†	70620.5	70710.3	5239.4 ug/L	5239.4 ppb	16:50:49
3	Sc Radial	4830.9	4830.9	99.5 %		16:48:45
3	Y RADIAL	5059.2	5059.2	99.39 %		16:48:45
3	Al 396.153Radial†	5202.6	5312.6	4924.3 ug/L	4924.3 ppb	16:48:45
3	Ca 317.933Radial†	2831.6	2829.4	4983.3 ug/L	4983.3 ppb	16:49:05
3	Fe 238.204 Radial†	487.9	481.4	5095.0 ug/L	5095.0 ppb	16:49:05
3	K 766.490 Radial†	28235.5	26202.4	5014.3 ug/L	5014.3 ppb	16:48:45
3	Mg 279.077 IEC†	131.1	128.7	5092.6 ug/L	5092.6 ppb	16:49:05
3	Na 589.592 Radial†	30329.5	30835.2	10434 ug/L	10434 ppb	16:48:45
3	Sr 421.552†	71106.5	71417.1	514.36 ug/L	514.36 ppb	16:48:45
3	Sc 361.383	785741.1	785741.1	99.396 %		16:50:13
3	Y 371.029	694443.4	694443.4	98.518 %		16:50:13
3	Ag 328.068†	100675.3	101079.2	498.39 ug/L	498.39 ppb	16:50:19
3	As 188.979†	1104.7	1139.8	503.77 ug/L	503.77 ppb	16:50:39
3	B 249.677†	19799.9	20405.4	491.69 ug/L	491.69 ppb	16:50:19
3	Ba 233.527†	43712.7	43984.1	498.73 ug/L	498.73 ppb	16:50:19
3	Be 313.107†	1253647.9	1271541.1	499.71 ug/L	499.71 ppb	16:50:13
3	Cd 226.502†	36071.4	36480.5	499.53 ug/L	499.53 ppb	16:50:19
3	Co 228.616†	17381.7	17553.3	510.15 ug/L	510.15 ppb	16:50:19
3	Cr 267.716†	37676.4	37843.0	500.43 ug/L	500.43 ppb	16:50:19
3	Cu 324.752†	146214.3	139387.9	494.55 ug/L	494.55 ppb	16:50:19
3	Mn 257.610†	322699.3	324228.1	497.62 ug/L	497.62 ppb	16:50:19
3	Mo 202.031†	5530.2	5555.7	496.60 ug/L	496.60 ppb	16:50:39
3	Ni 231.604†	16339.8	16370.7	510.05 ug/L	510.05 ppb	16:50:19
3	P 214.914†	4741.5	4549.4	2368.7 ug/L	2368.7 ppb	16:50:39
3	Pb 220.353†	3051.0	3130.9	498.96 ug/L	498.96 ppb	16:50:39
3	S 181.975 Axial†	814.9	772.6	990.66 ug/L	990.66 ppb	16:50:39
3	Sb 206.836†	1309.0	1283.0	510.37 ug/L	510.37 ppb	16:50:39
3	Se 196.026†	822.1	848.9	512.48 ug/L	512.48 ppb	16:50:39
3	Si 251.611†	72021.0	71923.5	2483.2 ug/L	2483.2 ppb	16:50:19
3	Sn 189.927†	2121.1	2128.3	489.44 ug/L	489.44 ppb	16:50:39
3	Ti 334.940†	256032.7	258713.1	494.12 ug/L	494.12 ppb	16:50:19
3	Tl 190.801†	1051.1	1088.8	492.84 ug/L	492.84 ppb	16:50:39
3	U 409.014†	13236.7	15508.9	489.49 ug/L	489.49 ppb	16:50:19
3	V 292.402†	63057.3	65042.9	504.98 ug/L	504.98 ppb	16:50:19
3	Zn 213.857†	47326.4	46857.6	495.48 ug/L	495.48 ppb	16:50:19
3	SiO2†	70439.6	70344.0	5212.3 ug/L	5212.3 ppb	16:50:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	785433.6	99.357 %	0.2016			0.20%
Sc Radial	4842.0	99.8 %	0.40			0.40%
Y 371.029	694478.1	98.523 %	0.2490			0.25%
Y RADIAL	5081.0	99.82 %	0.425			0.43%
Ag 328.068†	100990.6	497.96 ug/L	0.385	497.96 ppb	0.385	0.08%
QC value within limits for Ag 328.068 Recovery = 99.59%						
Al 396.153Radial†	5301.9	4914.2 ug/L	13.30	4914.2 ppb	13.30	0.27%
QC value within limits for Al 396.153Radial Recovery = 98.28%						
As 188.979†	1144.4	505.78 ug/L	3.326	505.78 ppb	3.326	0.66%
QC value within limits for As 188.979 Recovery = 101.16%						
B 249.677†	20359.8	490.58 ug/L	1.176	490.58 ppb	1.176	0.24%
QC value within limits for B 249.677 Recovery = 98.12%						
Ba 233.527†	43959.8	498.46 ug/L	0.581	498.46 ppb	0.581	0.12%
QC value within limits for Ba 233.527 Recovery = 99.69%						
Be 313.107†	1272482.0	500.08 ug/L	0.438	500.08 ppb	0.438	0.09%
QC value within limits for Be 313.107 Recovery = 100.02%						
Ca 317.933Radial†	2839.4	5001.0 ug/L	23.05	5001.0 ppb	23.05	0.46%

QC value within limits for Ca 317.933 Radial Recovery = 100.02%

Cd	226.502†	36528.0	500.18 ug/L	0.589	500.18 ppb	0.589	0.12%
QC value within limits for Cd 226.502 Recovery = 100.04%							
Co	228.616†	17549.1	510.04 ug/L	0.274	510.04 ppb	0.274	0.05%
QC value within limits for Co 228.616 Recovery = 102.01%							
Cr	267.716†	37821.6	500.15 ug/L	0.315	500.15 ppb	0.315	0.06%
QC value within limits for Cr 267.716 Recovery = 100.03%							
Cu	324.752†	139042.9	493.33 ug/L	1.293	493.33 ppb	1.293	0.26%
QC value within limits for Cu 324.752 Recovery = 98.67%							
Fe	238.204 Radial†	482.5	5107.2 ug/L	15.45	5107.2 ppb	15.45	0.30%
QC value within limits for Fe 238.204 Radial Recovery = 102.14%							
K	766.490 Radial†	26240.0	5021.5 ug/L	6.90	5021.5 ppb	6.90	0.14%
QC value within limits for K 766.490 Radial Recovery = 100.43%							
Mg	279.077 IEC†	128.5	5084.5 ug/L	81.28	5084.5 ppb	81.28	1.60%
QC value within limits for Mg 279.077 IEC Recovery = 101.69%							
Mn	257.610†	324266.6	497.68 ug/L	0.101	497.68 ppb	0.101	0.02%
QC value within limits for Mn 257.610 Recovery = 99.54%							
Mo	202.031†	5586.9	499.39 ug/L	2.607	499.39 ppb	2.607	0.52%
QC value within limits for Mo 202.031 Recovery = 99.88%							
Na	589.592 Radial†	30886.4	10451 ug/L	15.0	10451 ppb	15.0	0.14%
QC value within limits for Na 589.592 Radial Recovery = 104.51%							
Ni	231.604†	16373.2	510.13 ug/L	0.605	510.13 ppb	0.605	0.12%
QC value within limits for Ni 231.604 Recovery = 102.03%							
P	214.914†	4575.4	2383.0 ug/L	12.44	2383.0 ppb	12.44	0.52%
QC value within limits for P 214.914 Recovery = 95.32%							
Pb	220.353†	3138.7	500.20 ug/L	1.135	500.20 ppb	1.135	0.23%
QC value within limits for Pb 220.353 Recovery = 100.04%							
S	181.975 Axial†	776.8	996.10 ug/L	5.148	996.10 ppb	5.148	0.52%
QC value within limits for S 181.975 Axial Recovery = 99.61%							
Sb	206.836†	1292.0	513.91 ug/L	3.234	513.91 ppb	3.234	0.63%
QC value within limits for Sb 206.836 Recovery = 102.78%							
Se	196.026†	847.7	511.79 ug/L	0.803	511.79 ppb	0.803	0.16%
QC value within limits for Se 196.026 Recovery = 102.36%							
Si	251.611†	71878.7	2481.6 ug/L	2.80	2481.6 ppb	2.80	0.11%
QC value within limits for Si 251.611 Recovery = 99.27%							
Sn	189.927†	2137.7	491.61 ug/L	1.955	491.61 ppb	1.955	0.40%
QC value within limits for Sn 189.927 Recovery = 98.32%							
Sr	421.552†	71354.7	513.91 ug/L	0.510	513.91 ppb	0.510	0.10%
QC value within limits for Sr 421.552 Recovery = 102.78%							
Ti	334.940†	258494.6	493.71 ug/L	0.367	493.71 ppb	0.367	0.07%
QC value within limits for Ti 334.940 Recovery = 98.74%							
Tl	190.801†	1103.1	499.25 ug/L	6.066	499.25 ppb	6.066	1.22%
QC value within limits for Tl 190.801 Recovery = 99.85%							
U	409.014†	15504.5	489.35 ug/L	1.459	489.35 ppb	1.459	0.30%
QC value within limits for U 409.014 Recovery = 97.87%							
V	292.402†	65005.4	504.73 ug/L	0.695	504.73 ppb	0.695	0.14%
QC value within limits for V 292.402 Recovery = 100.95%							
Zn	213.857†	46793.9	494.80 ug/L	0.594	494.80 ppb	0.594	0.12%
QC value within limits for Zn 213.857 Recovery = 98.96%							
SiO2†		70611.4	5232.1 ug/L	17.34	5232.1 ppb	17.34	0.33%
QC value within limits for SiO2 Recovery = 97.84%							

All analyte(s) passed QC.

Sequence No.: 17
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/2/2010 16:53:04
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4902.8	4902.8	101 %		16:54:57
1	Y RADIAL	5162.2	5162.2	101.4 %		16:54:57
1	Al 396.153Radial†	-73.3	13.3	12.344 ug/L	12.344 ppb	16:55:17
1	Ca 317.933Radial†	22.0	6.4	11.289 ug/L	11.289 ppb	16:55:17
1	Fe 238.204 Radial†	6.1	-2.7	-28.753 ug/L	-28.753 ppb	16:55:17
1	K 766.490 Radial†	2225.9	39.0	7.4650 ug/L	7.4650 ppb	16:54:57
1	Mg 279.077 IEC†	2.5	-0.6	-22.874 ug/L	-22.874 ppb	16:55:17
1	Na 589.592 Radial†	-320.2	47.6	16.104 ug/L	16.104 ppb	16:54:57
1	Sr 421.552†	46.5	25.8	0.1857 ug/L	0.1857 ppb	16:54:57
1	Sc 361.383	775900.2	775900.2	98.151 %		16:56:14
1	Y 371.029	693881.9	693881.9	98.438 %		16:56:14
1	Ag 328.068†	198.2	-6.1	-0.0470 ug/L	-0.0470 ppb	16:56:14
1	As 188.979†	-35.0	-7.4	-3.2472 ug/L	-3.2472 ppb	16:56:34
1	B 249.677†	-305.3	174.0	4.2163 ug/L	4.2163 ppb	16:56:34
1	Ba 233.527†	4.6	10.4	0.1163 ug/L	0.1163 ppb	16:56:34
1	Be 313.107†	-9993.7	90.3	0.0353 ug/L	0.0353 ppb	16:56:14
1	Cd 226.502†	-188.7	-2.4	-0.0275 ug/L	-0.0275 ppb	16:56:34
1	Co 228.616†	-46.1	18.9	0.5510 ug/L	0.5510 ppb	16:56:34
1	Cr 267.716†	61.8	0.5	0.0024 ug/L	0.0024 ppb	16:56:34
1	Cu 324.752†	7605.3	33.4	0.1122 ug/L	0.1122 ppb	16:56:14
1	Mn 257.610†	469.6	45.6	0.0680 ug/L	0.0680 ppb	16:56:34
1	Mo 202.031†	17.9	10.1	0.8976 ug/L	0.8976 ppb	16:56:34
1	Ni 231.604†	96.3	29.7	0.9246 ug/L	0.9246 ppb	16:56:34
1	P 214.914†	210.1	-6.9	-3.7136 ug/L	-3.7136 ppb	16:56:34
1	Pb 220.353†	-47.3	13.1	2.0895 ug/L	2.0895 ppb	16:56:34
1	S 181.975 Axial†	39.7	-6.8	-8.6870 ug/L	-8.6870 ppb	16:56:34
1	Sb 206.836†	31.6	-1.8	-0.6555 ug/L	-0.6555 ppb	16:56:34
1	Se 196.026†	-18.4	3.1	1.7839 ug/L	1.7839 ppb	16:56:34
1	Si 251.611†	635.8	112.4	3.8806 ug/L	3.8806 ppb	16:56:34
1	Sn 189.927†	11.6	6.1	1.4063 ug/L	1.4063 ppb	16:56:34
1	Ti 334.940†	-1130.2	-27.5	-0.0529 ug/L	-0.0529 ppb	16:56:14
1	Tl 190.801†	-32.5	-1.8	-0.8253 ug/L	-0.8253 ppb	16:56:34
1	U 409.014†	-1886.8	269.4	8.5367 ug/L	8.5367 ppb	16:56:14
1	V 292.402†	-1608.9	-37.0	-0.2506 ug/L	-0.2506 ppb	16:56:14
1	Zn 213.857†	783.8	42.1	0.4475 ug/L	0.4475 ppb	16:56:34
1	SiO2†	659.2	147.8	10.957 ug/L	10.957 ppb	16:57:30
2	Sc Radial	4780.7	4780.7	98.5 %		16:55:22
2	Y RADIAL	5008.9	5008.9	98.40 %		16:55:22
2	Al 396.153Radial†	-74.0	10.7	9.9364 ug/L	9.9364 ppb	16:55:42
2	Ca 317.933Radial†	23.8	8.8	15.447 ug/L	15.447 ppb	16:55:42
2	Fe 238.204 Radial†	6.9	-1.7	-18.427 ug/L	-18.427 ppb	16:55:42
2	K 766.490 Radial†	2154.0	22.3	4.2661 ug/L	4.2661 ppb	16:55:22
2	Mg 279.077 IEC†	1.1	-2.0	-77.384 ug/L	-77.384 ppb	16:55:42
2	Na 589.592 Radial†	-338.1	21.3	7.2222 ug/L	7.2222 ppb	16:55:22
2	Sr 421.552†	14.9	-5.2	-0.0373 ug/L	-0.0373 ppb	16:55:22
2	Sc 361.383	773424.5	773424.5	97.838 %		16:56:39
2	Y 371.029	691379.8	691379.8	98.083 %		16:56:39
2	Ag 328.068†	139.0	-66.0	-0.3295 ug/L	-0.3295 ppb	16:56:39
2	As 188.979†	-26.6	1.1	0.4967 ug/L	0.4967 ppb	16:56:59
2	B 249.677†	-304.6	173.8	4.2098 ug/L	4.2098 ppb	16:56:59
2	Ba 233.527†	13.3	19.3	0.2179 ug/L	0.2179 ppb	16:56:59
2	Be 313.107†	-10032.9	17.6	0.0065 ug/L	0.0065 ppb	16:56:39
2	Cd 226.502†	-193.2	-7.7	-0.1026 ug/L	-0.1026 ppb	16:56:59
2	Co 228.616†	-66.9	-2.5	-0.0729 ug/L	-0.0729 ppb	16:56:59
2	Cr 267.716†	73.2	12.4	0.1637 ug/L	0.1637 ppb	16:56:59
2	Cu 324.752†	7516.8	-32.3	-0.1162 ug/L	-0.1162 ppb	16:56:39
2	Mn 257.610†	453.6	30.8	0.0485 ug/L	0.0485 ppb	16:56:59
2	Mo 202.031†	6.4	-1.5	-0.1391 ug/L	-0.1391 ppb	16:56:59
2	Ni 231.604†	84.5	17.9	0.5570 ug/L	0.5570 ppb	16:56:59

2	P 214.914†	210.6	-5.7	-3.0475 ug/L	-3.0475 ppb	16:56:59
2	Pb 220.353†	-58.0	2.0	0.3238 ug/L	0.3238 ppb	16:56:59
2	S 181.975 Axial†	47.4	1.2	1.5785 ug/L	1.5785 ppb	16:56:59
2	Sb 206.836†	38.9	5.7	2.2051 ug/L	2.2051 ppb	16:56:59
2	Se 196.026†	-14.9	6.6	3.8329 ug/L	3.8329 ppb	16:56:59
2	Si 251.611†	602.7	80.7	2.7948 ug/L	2.7948 ppb	16:56:59
2	Sn 189.927†	8.5	2.9	0.6785 ug/L	0.6785 ppb	16:56:59
2	Ti 334.940†	-1186.1	-88.3	-0.1609 ug/L	-0.1609 ppb	16:56:39
2	Tl 190.801†	-36.8	-6.4	-2.8826 ug/L	-2.8826 ppb	16:56:59
2	U 409.014†	-2103.6	41.6	1.3197 ug/L	1.3197 ppb	16:56:39
2	V 292.402†	-1541.9	26.3	0.2035 ug/L	0.2035 ppb	16:56:39
2	Zn 213.857†	776.8	37.5	0.3998 ug/L	0.3998 ppb	16:56:59
2	SiO2†	684.8	176.1	13.083 ug/L	13.083 ppb	16:57:35
3	Sc Radial	4832.8	4832.8	99.6 %		16:55:47
3	Y RADIAL	5079.6	5079.6	99.79 %		16:55:47
3	Al 396.153Radial†	-70.7	14.8	13.779 ug/L	13.779 ppb	16:56:07
3	Ca 317.933Radial†	25.1	9.9	17.351 ug/L	17.351 ppb	16:56:07
3	Fe 238.204 Radial†	5.2	-3.5	-36.873 ug/L	-36.873 ppb	16:56:07
3	K 766.490 Radial†	2127.2	-28.2	-5.4095 ug/L	-5.4095 ppb	16:55:47
3	Mg 279.077 IEC†	1.2	-1.8	-72.812 ug/L	-72.812 ppb	16:56:07
3	Na 589.592 Radial†	-375.3	-12.3	-4.1649 ug/L	-4.1649 ppb	16:55:47
3	Sr 421.552†	16.0	-4.3	-0.0307 ug/L	-0.0307 ppb	16:55:47
3	Sc 361.383	775711.9	775711.9	98.127 %		16:57:05
3	Y 371.029	692575.6	692575.6	98.253 %		16:57:05
3	Ag 328.068†	266.9	64.0	0.2973 ug/L	0.2973 ppb	16:57:05
3	As 188.979†	-29.1	-1.3	-0.5902 ug/L	-0.5902 ppb	16:57:25
3	B 249.677†	-333.8	145.0	3.5157 ug/L	3.5157 ppb	16:57:25
3	Ba 233.527†	4.8	10.6	0.1177 ug/L	0.1177 ppb	16:57:25
3	Be 313.107†	-10129.2	-50.3	-0.0199 ug/L	-0.0199 ppb	16:57:05
3	Cd 226.502†	-185.6	0.7	0.0138 ug/L	0.0138 ppb	16:57:25
3	Co 228.616†	-61.7	3.0	0.0887 ug/L	0.0887 ppb	16:57:25
3	Cr 267.716†	67.3	6.1	0.0783 ug/L	0.0783 ppb	16:57:25
3	Cu 324.752†	7711.6	143.5	0.5053 ug/L	0.5053 ppb	16:57:05
3	Mn 257.610†	462.9	38.8	0.0589 ug/L	0.0589 ppb	16:57:25
3	Mo 202.031†	17.1	9.3	0.8270 ug/L	0.8270 ppb	16:57:25
3	Ni 231.604†	86.1	19.3	0.6005 ug/L	0.6005 ppb	16:57:25
3	P 214.914†	212.5	-4.4	-2.4500 ug/L	-2.4500 ppb	16:57:25
3	Pb 220.353†	-48.4	12.1	1.9242 ug/L	1.9242 ppb	16:57:25
3	S 181.975 Axial†	43.9	-2.5	-3.1900 ug/L	-3.1900 ppb	16:57:25
3	Sb 206.836†	34.5	1.1	0.4543 ug/L	0.4543 ppb	16:57:25
3	Se 196.026†	-9.7	12.0	6.9725 ug/L	6.9725 ppb	16:57:25
3	Si 251.611†	610.1	86.4	2.9807 ug/L	2.9807 ppb	16:57:25
3	Sn 189.927†	7.2	1.5	0.3602 ug/L	0.3602 ppb	16:57:25
3	Ti 334.940†	-1144.5	-42.4	-0.0743 ug/L	-0.0743 ppb	16:57:05
3	Tl 190.801†	-33.8	-3.2	-1.4559 ug/L	-1.4559 ppb	16:57:25
3	U 409.014†	-2034.3	118.6	3.7607 ug/L	3.7607 ppb	16:57:05
3	V 292.402†	-1617.2	-45.8	-0.3283 ug/L	-0.3283 ppb	16:57:05
3	Zn 213.857†	770.1	28.4	0.3040 ug/L	0.3040 ppb	16:57:25
3	SiO2†	624.1	112.2	8.3097 ug/L	8.3097 ppb	16:57:40

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	775012.2	98.039 %	0.1743			0.18%
Sc Radial	4838.8	99.7 %	1.26			1.27%
Y 371.029	692612.4	98.258 %	0.1775			0.18%
Y RADIAL	5083.6	99.87 %	1.507			1.51%
Ag 328.068†	-2.7	-0.0264 ug/L	0.31395	-0.0264 ppb	0.31395	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	12.9	12.020 ug/L	1.9417	12.020 ppb	1.9417	16.15%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.5	-1.1136 ug/L	1.92605	-1.1136 ppb	1.92605	172.97%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	164.3	3.9806 ug/L	0.40259	3.9806 ppb	0.40259	10.11%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	13.4	0.1506 ug/L	0.05828	0.1506 ppb	0.05828	38.69%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	19.2	0.0073 ug/L	0.02760	0.0073 ppb	0.02760	377.97%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	8.3	14.695 ug/L	3.1001	14.695 ppb	3.1001	21.10%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-3.1	-0.0387 ug/L	0.05903	-0.0387 ppb	0.05903	152.36%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	6.4	0.1889 ug/L	0.32379	0.1889 ppb	0.32379	171.40%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	6.4	0.0815 ug/L	0.08069	0.0815 ppb	0.08069	99.05%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	48.2	0.1671 ug/L	0.31435	0.1671 ppb	0.31435	188.14%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-2.7	-28.018 ug/L	9.2448	-28.018 ppb	9.2448	33.00%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	11.0	2.1072 ug/L	6.70327	2.1072 ppb	6.70327	318.11%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.5	-57.690 ug/L	30.2382	-57.690 ppb	30.2382	52.41%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	38.4	0.0585 ug/L	0.00973	0.0585 ppb	0.00973	16.64%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	5.9	0.5285 ug/L	0.57921	0.5285 ppb	0.57921	109.59%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	18.9	6.3872 ug/L	10.16041	6.3872 ppb	10.16041	159.07%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	22.3	0.6940 ug/L	0.20084	0.6940 ppb	0.20084	28.94%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-5.7	-3.0704 ug/L	0.63210	-3.0704 ppb	0.63210	20.59%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	9.1	1.4458 ug/L	0.97525	1.4458 ppb	0.97525	67.45%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-2.7	-3.4328 ug/L	5.13706	-3.4328 ppb	5.13706	149.64%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	1.7	0.6679 ug/L	1.44226	0.6679 ppb	1.44226	215.92%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	7.2	4.1964 ug/L	2.61335	4.1964 ppb	2.61335	62.28%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	93.2	3.2187 ug/L	0.58067	3.2187 ppb	0.58067	18.04%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	3.5	0.8150 ug/L	0.53625	0.8150 ppb	0.53625	65.80%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	5.5	0.0392 ug/L	0.12688	0.0392 ppb	0.12688	323.63%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-52.7	-0.0961 ug/L	0.05720	-0.0961 ppb	0.05720	59.55%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-3.8	-1.7213 ug/L	1.05403	-1.7213 ppb	1.05403	61.24%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	143.2	4.5390 ug/L	3.67095	4.5390 ppb	3.67095	80.87%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-18.8	-0.1252 ug/L	0.28727	-0.1252 ppb	0.28727	229.52%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	36.0	0.3837 ug/L	0.07307	0.3837 ppb	0.07307	19.04%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	145.3	10.783 ug/L	2.3914	10.783 ppb	2.3914	22.18%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

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Analysis Begun

Start Time: 3/2/2010 17:40:02

Plasma On Time: 3/1/2010 06:57:40

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\030210B.sif

Batch ID:

Results Data Set: 030210

Results Library: C:\pe\Optima3\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 1

Sample ID: CCV

Date Collected: 3/2/2010 17:40:03

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4924.9	4924.9	101 %		17:41:55
1	Y RADIAL	5164.1	5164.1	101.4 %		17:41:55
1	Al 396.153Radial†	4936.2	4950.4	4587.2 ug/L	4587.2 ppb	17:41:55
1	Ca 317.933Radial†	2772.9	2717.2	4785.8 ug/L	4785.8 ppb	17:42:15
1	Fe 238.204 Radial†	476.9	461.2	4881.8 ug/L	4881.8 ppb	17:42:15
1	K 766.490 Radial†	27222.1	24662.4	4719.7 ug/L	4719.7 ppb	17:41:55
1	Mg 279.077 IEC†	127.3	122.4	4843.5 ug/L	4843.5 ppb	17:42:15
1	Na 589.592 Radial†	28339.0	28292.3	9573.1 ug/L	9573.1 ppb	17:41:55
1	Sr 421.552†	66939.4	65947.4	474.97 ug/L	474.97 ppb	17:41:55
1	Sc 361.383	787001.8	787001.8	99.555 %		17:43:13
1	Y 371.029	694825.8	694825.8	98.572 %		17:43:13
1	Ag 328.068†	97481.8	97709.2	481.75 ug/L	481.75 ppb	17:43:18
1	As 188.979†	1097.6	1130.8	499.66 ug/L	499.66 ppb	17:43:38
1	B 249.677†	19047.5	19617.7	472.70 ug/L	472.70 ppb	17:43:18
1	Ba 233.527†	42377.8	42572.8	482.72 ug/L	482.72 ppb	17:43:18
1	Be 313.107†	1227180.1	1242934.6	488.46 ug/L	488.46 ppb	17:43:13
1	Cd 226.502†	35091.9	35438.5	485.27 ug/L	485.27 ppb	17:43:18
1	Co 228.616†	16918.1	17059.5	495.83 ug/L	495.83 ppb	17:43:18
1	Cr 267.716†	36527.0	36627.8	484.35 ug/L	484.35 ppb	17:43:18
1	Cu 324.752†	140995.1	133909.7	475.11 ug/L	475.11 ppb	17:43:18
1	Mn 257.610†	313506.3	314474.0	482.64 ug/L	482.64 ppb	17:43:18
1	Mo 202.031†	5482.0	5498.4	491.46 ug/L	491.46 ppb	17:43:38
1	Ni 231.604†	15908.0	15910.6	495.71 ug/L	495.71 ppb	17:43:18
1	P 214.914†	4723.1	4523.2	2358.4 ug/L	2358.4 ppb	17:43:38
1	Pb 220.353†	3022.5	3097.3	493.55 ug/L	493.55 ppb	17:43:38
1	S 181.975 Axial†	817.5	773.9	992.47 ug/L	992.47 ppb	17:43:38
1	Sb 206.836†	1302.3	1274.1	506.79 ug/L	506.79 ppb	17:43:38
1	Se 196.026†	810.6	836.0	504.39 ug/L	504.39 ppb	17:43:38
1	Si 251.611†	69575.5	69351.0	2394.3 ug/L	2394.3 ppb	17:43:18
1	Sn 189.927†	2104.1	2107.7	484.69 ug/L	484.69 ppb	17:43:38
1	Ti 334.940†	247710.1	249940.7	477.37 ug/L	477.37 ppb	17:43:18
1	Tl 190.801†	1056.3	1092.3	494.30 ug/L	494.30 ppb	17:43:38
1	U 409.014†	12861.5	15110.7	476.94 ug/L	476.94 ppb	17:43:18
1	V 292.402†	60920.2	62794.6	487.71 ug/L	487.71 ppb	17:43:18
1	Zn 213.857†	45881.4	45330.0	479.33 ug/L	479.33 ppb	17:43:18
1	SiO2†	69628.8	69416.0	5143.5 ug/L	5143.5 ppb	17:44:45
2	Sc Radial	4799.7	4799.7	98.9 %		17:42:20
2	Y RADIAL	5063.3	5063.3	99.47 %		17:42:20
2	Al 396.153Radial†	5043.1	5185.3	4806.5 ug/L	4806.5 ppb	17:42:20
2	Ca 317.933Radial†	2796.3	2812.2	4953.0 ug/L	4953.0 ppb	17:42:41
2	Fe 238.204 Radial†	470.7	467.2	4945.0 ug/L	4945.0 ppb	17:42:41
2	K 766.490 Radial†	27547.4	25691.2	4916.6 ug/L	4916.6 ppb	17:42:20
2	Mg 279.077 IEC†	126.2	124.6	4930.4 ug/L	4930.4 ppb	17:42:41
2	Na 589.592 Radial†	28874.3	29562.1	10003 ug/L	10003 ppb	17:42:20
2	Sr 421.552†	68443.9	69189.6	498.32 ug/L	498.32 ppb	17:42:20
2	Sc 361.383	795028.2	795028.2	100.57 %		17:43:43
2	Y 371.029	701645.7	701645.7	99.540 %		17:43:43

2	Ag 328.068†	98427.9	97661.4	481.54 ug/L	481.54 ppb	17:43:49
2	As 188.979†	1087.1	1109.2	490.23 ug/L	490.23 ppb	17:44:09
2	B 249.677†	19331.9	19707.3	474.86 ug/L	474.86 ppb	17:43:49
2	Ba 233.527†	42772.6	42535.6	482.31 ug/L	482.31 ppb	17:43:49
2	Be 313.107†	1235545.2	1238807.7	486.84 ug/L	486.84 ppb	17:43:43
2	Cd 226.502†	35338.8	35328.1	483.75 ug/L	483.75 ppb	17:43:49
2	Co 228.616†	17001.6	16971.0	493.24 ug/L	493.24 ppb	17:43:49
2	Cr 267.716†	36734.7	36463.9	482.19 ug/L	482.19 ppb	17:43:49
2	Cu 324.752†	142844.4	134318.8	476.57 ug/L	476.57 ppb	17:43:49
2	Mn 257.610†	316072.4	313846.3	481.68 ug/L	481.68 ppb	17:43:49
2	Mo 202.031†	5428.0	5389.1	481.71 ug/L	481.71 ppb	17:44:09
2	Ni 231.604†	16026.3	15866.9	494.35 ug/L	494.35 ppb	17:43:49
2	P 214.914†	4689.9	4442.3	2314.2 ug/L	2314.2 ppb	17:44:09
2	Pb 220.353†	3007.0	3051.3	486.27 ug/L	486.27 ppb	17:44:09
2	S 181.975 Axial†	807.5	755.6	968.97 ug/L	968.97 ppb	17:44:09
2	Sb 206.836†	1296.3	1254.9	499.14 ug/L	499.14 ppb	17:44:09
2	Se 196.026†	799.7	817.0	493.33 ug/L	493.33 ppb	17:44:09
2	Si 251.611†	70337.5	69403.1	2396.2 ug/L	2396.2 ppb	17:43:49
2	Sn 189.927†	2104.5	2086.8	479.92 ug/L	479.92 ppb	17:44:09
2	Ti 334.940†	250313.5	250017.3	477.53 ug/L	477.53 ppb	17:43:49
2	Tl 190.801†	1041.8	1067.2	483.01 ug/L	483.01 ppb	17:44:09
2	U 409.014†	12936.7	15055.0	475.18 ug/L	475.18 ppb	17:43:49
2	V 292.402†	61568.5	62821.5	487.77 ug/L	487.77 ppb	17:43:49
2	Zn 213.857†	46199.9	45181.4	477.74 ug/L	477.74 ppb	17:43:49
2	SiO2†	70765.4	69840.1	5175.3 ug/L	5175.3 ppb	17:44:50
3	Sc Radial	4794.3	4794.3	98.8 %		17:42:46
3	Y RADIAL	5008.8	5008.8	98.40 %		17:42:46
3	Al 396.153Radial†	5068.3	5216.7	4835.4 ug/L	4835.4 ppb	17:42:46
3	Ca 317.933Radial†	2792.6	2811.7	4952.1 ug/L	4952.1 ppb	17:43:06
3	Fe 238.204 Radial†	475.9	473.0	5006.1 ug/L	5006.1 ppb	17:43:06
3	K 766.490 Radial†	27770.6	25948.6	4965.9 ug/L	4965.9 ppb	17:42:46
3	Mg 279.077 IEC†	126.2	124.7	4934.5 ug/L	4934.5 ppb	17:43:06
3	Na 589.592 Radial†	28943.2	29664.8	10037 ug/L	10037 ppb	17:42:46
3	Sr 421.552†	68309.4	69131.6	497.90 ug/L	497.90 ppb	17:42:46
3	Sc 361.383	785758.0	785758.0	99.398 %		17:44:14
3	Y 371.029	694342.2	694342.2	98.504 %		17:44:14
3	Ag 328.068†	99391.3	99785.3	491.99 ug/L	491.99 ppb	17:44:19
3	As 188.979†	1071.4	1106.2	489.01 ug/L	489.01 ppb	17:44:40
3	B 249.677†	19542.3	20145.8	485.44 ug/L	485.44 ppb	17:44:19
3	Ba 233.527†	43163.5	43430.6	492.45 ug/L	492.45 ppb	17:44:19
3	Be 313.107†	1222635.0	1240313.2	487.45 ug/L	487.45 ppb	17:44:14
3	Cd 226.502†	35575.9	35981.2	492.69 ug/L	492.69 ppb	17:44:19
3	Co 228.616†	17142.6	17312.3	503.15 ug/L	503.15 ppb	17:44:19
3	Cr 267.716†	37103.5	37265.8	492.79 ug/L	492.79 ppb	17:44:19
3	Cu 324.752†	144429.7	137589.3	488.17 ug/L	488.17 ppb	17:44:19
3	Mn 257.610†	319016.2	320515.7	491.92 ug/L	491.92 ppb	17:44:19
3	Mo 202.031†	5420.9	5445.6	486.76 ug/L	486.76 ppb	17:44:40
3	Ni 231.604†	16110.0	16139.1	502.83 ug/L	502.83 ppb	17:44:19
3	P 214.914†	4684.2	4491.6	2338.6 ug/L	2338.6 ppb	17:44:40
3	Pb 220.353†	3002.5	3082.1	491.16 ug/L	491.16 ppb	17:44:40
3	S 181.975 Axial†	813.5	771.1	988.87 ug/L	988.87 ppb	17:44:40
3	Sb 206.836†	1289.9	1263.7	502.69 ug/L	502.69 ppb	17:44:40
3	Se 196.026†	797.8	824.5	497.87 ug/L	497.87 ppb	17:44:40
3	Si 251.611†	71124.6	71020.1	2452.1 ug/L	2452.1 ppb	17:44:19
3	Sn 189.927†	2100.1	2107.0	484.56 ug/L	484.56 ppb	17:44:40
3	Ti 334.940†	252583.9	255237.9	487.50 ug/L	487.50 ppb	17:44:19
3	Tl 190.801†	1043.5	1081.1	489.33 ug/L	489.33 ppb	17:44:40
3	U 409.014†	13207.6	15479.4	488.58 ug/L	488.58 ppb	17:44:19
3	V 292.402†	62008.4	63986.3	496.76 ug/L	496.76 ppb	17:44:19
3	Zn 213.857†	46559.5	46085.0	487.31 ug/L	487.31 ppb	17:44:19
3	SiO2†	69752.8	69651.5	5161.1 ug/L	5161.1 ppb	17:44:55

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	789262.7	99.841 %	0.6365			0.64%
Sc Radial	4839.6	99.7 %	1.52			1.53%
Y 371.029	696937.9	98.872 %	0.5794			0.59%
Y RADIAL	5078.8	99.77 %	1.548			1.55%
Ag 328.068†	98385.3	485.09 ug/L	5.973	485.09 ppb	5.973	1.23%

QC value within limits for Ag 328.068 Recovery = 97.02%					
Al 396.153Radial†	5117.5	4743.0 ug/L	135.75	4743.0 ppb	135.75 2.86%
QC value within limits for Al 396.153Radial Recovery = 94.86%					
As 188.979†	1115.4	492.97 ug/L	5.829	492.97 ppb	5.829 1.18%
QC value within limits for As 188.979 Recovery = 98.59%					
B 249.677†	19823.6	477.66 ug/L	6.818	477.66 ppb	6.818 1.43%
QC value within limits for B 249.677 Recovery = 95.53%					
Ba 233.527†	42846.3	485.83 ug/L	5.740	485.83 ppb	5.740 1.18%
QC value within limits for Ba 233.527 Recovery = 97.17%					
Be 313.107†	1240685.2	487.58 ug/L	0.817	487.58 ppb	0.817 0.17%
QC value within limits for Be 313.107 Recovery = 97.52%					
Ca 317.933Radial†	2780.4	4896.9 ug/L	96.28	4896.9 ppb	96.28 1.97%
QC value within limits for Ca 317.933Radial Recovery = 97.94%					
Cd 226.502†	35582.6	487.24 ug/L	4.787	487.24 ppb	4.787 0.98%
QC value within limits for Cd 226.502 Recovery = 97.45%					
Co 228.616†	17114.3	497.40 ug/L	5.139	497.40 ppb	5.139 1.03%
QC value within limits for Co 228.616 Recovery = 99.48%					
Cr 267.716†	36785.8	486.45 ug/L	5.601	486.45 ppb	5.601 1.15%
QC value within limits for Cr 267.716 Recovery = 97.29%					
Cu 324.752†	135272.6	479.95 ug/L	7.155	479.95 ppb	7.155 1.49%
QC value within limits for Cu 324.752 Recovery = 95.99%					
Fe 238.204 Radial†	467.1	4944.3 ug/L	62.16	4944.3 ppb	62.16 1.26%
QC value within limits for Fe 238.204 Radial Recovery = 98.89%					
K 766.490 Radial†	25434.1	4867.4 ug/L	130.28	4867.4 ppb	130.28 2.68%
QC value within limits for K 766.490 Radial Recovery = 97.35%					
Mg 279.077 IEC†	123.9	4902.8 ug/L	51.40	4902.8 ppb	51.40 1.05%
QC value within limits for Mg 279.077 IEC Recovery = 98.06%					
Mn 257.610†	316278.6	485.42 ug/L	5.653	485.42 ppb	5.653 1.16%
QC value within limits for Mn 257.610 Recovery = 97.08%					
Mo 202.031†	5444.4	486.64 ug/L	4.877	486.64 ppb	4.877 1.00%
QC value within limits for Mo 202.031 Recovery = 97.33%					
Na 589.592 Radial†	29173.1	9871.1 ug/L	258.68	9871.1 ppb	258.68 2.62%
QC value within limits for Na 589.592 Radial Recovery = 98.71%					
Ni 231.604†	15972.2	497.63 ug/L	4.554	497.63 ppb	4.554 0.92%
QC value within limits for Ni 231.604 Recovery = 99.53%					
P 214.914†	4485.7	2337.1 ug/L	22.13	2337.1 ppb	22.13 0.95%
QC value within limits for P 214.914 Recovery = 93.48%					
Pb 220.353†	3076.9	490.33 ug/L	3.712	490.33 ppb	3.712 0.76%
QC value within limits for Pb 220.353 Recovery = 98.07%					
S 181.975 Axial†	766.9	983.43 ug/L	12.656	983.43 ppb	12.656 1.29%
QC value within limits for S 181.975 Axial Recovery = 98.34%					
Sb 206.836†	1264.3	502.87 ug/L	3.824	502.87 ppb	3.824 0.76%
QC value within limits for Sb 206.836 Recovery = 100.57%					
Se 196.026†	825.8	498.53 ug/L	5.558	498.53 ppb	5.558 1.11%
QC value within limits for Se 196.026 Recovery = 99.71%					
Si 251.611†	69924.7	2414.2 ug/L	32.85	2414.2 ppb	32.85 1.36%
QC value within limits for Si 251.611 Recovery = 96.57%					
Sn 189.927†	2100.5	483.06 ug/L	2.715	483.06 ppb	2.715 0.56%
QC value within limits for Sn 189.927 Recovery = 96.61%					
Sr 421.552†	68089.5	490.39 ug/L	13.363	490.39 ppb	13.363 2.72%
QC value within limits for Sr 421.552 Recovery = 98.08%					
Ti 334.940†	251732.0	480.80 ug/L	5.800	480.80 ppb	5.800 1.21%
QC value within limits for Ti 334.940 Recovery = 96.16%					
Tl 190.801†	1080.2	488.88 ug/L	5.657	488.88 ppb	5.657 1.16%
QC value within limits for Tl 190.801 Recovery = 97.78%					
U 409.014†	15215.0	480.23 ug/L	7.286	480.23 ppb	7.286 1.52%
QC value within limits for U 409.014 Recovery = 96.05%					
V 292.402†	63200.8	490.75 ug/L	5.212	490.75 ppb	5.212 1.06%
QC value within limits for V 292.402 Recovery = 98.15%					
Zn 213.857†	45532.1	481.46 ug/L	5.127	481.46 ppb	5.127 1.06%
QC value within limits for Zn 213.857 Recovery = 96.29%					
SiO2†	69635.8	5160.0 ug/L	15.92	5160.0 ppb	15.92 0.31%
QC value within limits for SiO2 Recovery = 96.49%					
All analyte(s) passed QC.					

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/2/2010 17:47:05

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	4714.5	4714.5	97.1 %		17:48:57
1	Y RADIAL	4992.5	4992.5	98.08 %		17:48:57
1	Al 396.153Radial†	-93.7	-10.6	-9.9287 ug/L	-9.9287 ppb	17:49:17
1	Ca 317.933Radial†	18.0	3.2	5.5957 ug/L	5.5957 ppb	17:49:17
1	Fe 238.204 Radial†	4.8	-3.8	-39.884 ug/L	-39.884 ppb	17:49:17
1	K 766.490 Radial†	2223.3	124.3	23.823 ug/L	23.823 ppb	17:48:57
1	Mg 279.077 IEC†	0.1	-2.9	-115.32 ug/L	-115.32 ppb	17:49:17
1	Na 589.592 Radial†	-358.0	-3.9	-1.3222 ug/L	-1.3222 ppb	17:48:57
1	Sr 421.552†	36.9	17.7	0.1277 ug/L	0.1277 ppb	17:48:57
1	Sc 361.383	763704.5	763704.5	96.608 %		17:50:14
1	Y 371.029	682266.9	682266.9	96.791 %		17:50:14
1	Ag 328.068†	115.8	-88.2	-0.4473 ug/L	-0.4473 ppb	17:50:14
1	As 188.979†	-20.9	6.7	2.9205 ug/L	2.9205 ppb	17:50:34
1	B 249.677†	-362.3	110.1	2.6721 ug/L	2.6721 ppb	17:50:34
1	Ba 233.527†	-7.5	-2.1	-0.0256 ug/L	-0.0256 ppb	17:50:34
1	Be 313.107†	-10073.3	-154.6	-0.0609 ug/L	-0.0609 ppb	17:50:14
1	Cd 226.502†	-177.3	6.3	0.0908 ug/L	0.0908 ppb	17:50:34
1	Co 228.616†	-57.6	6.2	0.1824 ug/L	0.1824 ppb	17:50:34
1	Cr 267.716†	58.8	-1.5	-0.0217 ug/L	-0.0217 ppb	17:50:34
1	Cu 324.752†	7491.6	39.4	0.1373 ug/L	0.1373 ppb	17:50:14
1	Mn 257.610†	447.1	29.8	0.0466 ug/L	0.0466 ppb	17:50:34
1	Mo 202.031†	15.0	7.4	0.6578 ug/L	0.6578 ppb	17:50:34
1	Ni 231.604†	69.0	2.9	0.0912 ug/L	0.0912 ppb	17:50:34
1	P 214.914†	214.2	0.8	0.4468 ug/L	0.4468 ppb	17:50:34
1	Pb 220.353†	-40.9	19.0	3.0226 ug/L	3.0226 ppb	17:50:34
1	S 181.975 Axial†	43.5	-2.3	-2.9012 ug/L	-2.9012 ppb	17:50:34
1	Sb 206.836†	35.0	2.2	0.8794 ug/L	0.8794 ppb	17:50:34
1	Se 196.026†	-13.3	8.1	4.6486 ug/L	4.6486 ppb	17:50:34
1	Si 251.611†	539.6	23.2	0.7966 ug/L	0.7966 ppb	17:50:34
1	Sn 189.927†	11.3	5.9	1.3681 ug/L	1.3681 ppb	17:50:34
1	Ti 334.940†	-1155.4	-72.0	-0.1277 ug/L	-0.1277 ppb	17:50:14
1	Tl 190.801†	-39.3	-9.5	-4.2646 ug/L	-4.2646 ppb	17:50:34
1	U 409.014†	-2091.4	26.9	0.8556 ug/L	0.8556 ppb	17:50:14
1	V 292.402†	-1614.0	-68.5	-0.5099 ug/L	-0.5099 ppb	17:50:14
1	Zn 213.857†	759.9	30.2	0.3274 ug/L	0.3274 ppb	17:50:34
1	SiO2†	584.9	81.6	6.0460 ug/L	6.0460 ppb	17:51:30
2	Sc Radial	4747.9	4747.9	97.8 %		17:49:22
2	Y RADIAL	5022.7	5022.7	98.67 %		17:49:22
2	Al 396.153Radial†	-91.7	-7.9	-7.3291 ug/L	-7.3291 ppb	17:49:42
2	Ca 317.933Radial†	18.5	3.5	6.2058 ug/L	6.2058 ppb	17:49:42
2	Fe 238.204 Radial†	4.1	-4.5	-47.760 ug/L	-47.760 ppb	17:49:42
2	K 766.490 Radial†	2233.1	118.3	22.663 ug/L	22.663 ppb	17:49:22
2	Mg 279.077 IEC†	0.4	-2.6	-103.76 ug/L	-103.76 ppb	17:49:42
2	Na 589.592 Radial†	-374.6	-18.4	-6.2166 ug/L	-6.2166 ppb	17:49:22
2	Sr 421.552†	1.1	-19.2	-0.1380 ug/L	-0.1380 ppb	17:49:22
2	Sc 361.383	781431.0	781431.0	98.851 %		17:50:39
2	Y 371.029	698537.6	698537.6	99.099 %		17:50:39
2	Ag 328.068†	118.1	-88.5	-0.4518 ug/L	-0.4518 ppb	17:50:39
2	As 188.979†	-28.1	-0.1	-0.0430 ug/L	-0.0430 ppb	17:50:59
2	B 249.677†	-334.7	146.6	3.5562 ug/L	3.5562 ppb	17:50:59
2	Ba 233.527†	13.8	19.6	0.2195 ug/L	0.2195 ppb	17:50:59
2	Be 313.107†	-10137.2	17.2	0.0061 ug/L	0.0061 ppb	17:50:39
2	Cd 226.502†	-187.9	-0.2	0.0025 ug/L	0.0025 ppb	17:50:59
2	Co 228.616†	-62.4	2.7	0.0791 ug/L	0.0791 ppb	17:50:59
2	Cr 267.716†	54.0	-7.7	-0.1046 ug/L	-0.1046 ppb	17:50:59
2	Cu 324.752†	7631.8	5.3	0.0151 ug/L	0.0151 ppb	17:50:39
2	Mn 257.610†	429.5	1.6	0.0020 ug/L	0.0020 ppb	17:50:59
2	Mo 202.031†	4.6	-3.5	-0.3179 ug/L	-0.3179 ppb	17:50:59
2	Ni 231.604†	68.4	0.7	0.0220 ug/L	0.0220 ppb	17:50:59

2	P 214.914†	219.4	0.9	0.5446 ug/L	0.5446 ppb	17:50:59
2	Pb 220.353†	-56.8	3.9	0.6198 ug/L	0.6198 ppb	17:50:59
2	S 181.975 Axial†	43.5	-3.3	-4.2250 ug/L	-4.2250 ppb	17:50:59
2	Sb 206.836†	31.3	-2.3	-0.8872 ug/L	-0.8872 ppb	17:50:59
2	Se 196.026†	-24.4	-2.8	-1.7774 ug/L	-1.7774 ppb	17:50:59
2	Si 251.611†	542.7	13.7	0.4769 ug/L	0.4769 ppb	17:50:59
2	Sn 189.927†	8.1	2.4	0.5621 ug/L	0.5621 ppb	17:50:59
2	Ti 334.940†	-1265.6	-156.4	-0.2903 ug/L	-0.2903 ppb	17:50:39
2	Tl 190.801†	-34.9	-4.0	-1.8074 ug/L	-1.8074 ppb	17:50:59
2	U 409.014†	-2099.5	67.8	2.1545 ug/L	2.1545 ppb	17:50:39
2	V 292.402†	-1632.8	-49.6	-0.3747 ug/L	-0.3747 ppb	17:50:39
2	Zn 213.857†	766.4	18.9	0.2086 ug/L	0.2086 ppb	17:50:59
2	SiO2†	537.9	20.3	1.5180 ug/L	1.5180 ppb	17:51:35
3	Sc Radial	4803.7	4803.7	99.0 %		17:49:47
3	Y RADIAL	5053.6	5053.6	99.28 %		17:49:47
3	Al 396.153Radial†	-87.7	-2.8	-2.6183 ug/L	-2.6183 ppb	17:50:07
3	Ca 317.933Radial†	20.2	5.0	8.8305 ug/L	8.8305 ppb	17:50:07
3	Fe 238.204 Radial†	6.7	-2.0	-21.214 ug/L	-21.214 ppb	17:50:07
3	K 766.490 Radial†	2270.4	129.5	24.801 ug/L	24.801 ppb	17:49:47
3	Mg 279.077 IEC†	1.8	-1.2	-48.166 ug/L	-48.166 ppb	17:50:07
3	Na 589.592 Radial†	-328.4	32.8	11.103 ug/L	11.103 ppb	17:49:47
3	Sr 421.552†	5.1	-15.1	-0.1089 ug/L	-0.1089 ppb	17:49:47
3	Sc 361.383	772736.6	772736.6	97.751 %		17:51:05
3	Y 371.029	691330.3	691330.3	98.076 %		17:51:05
3	Ag 328.068†	308.1	107.1	0.5198 ug/L	0.5198 ppb	17:51:05
3	As 188.979†	-26.2	1.5	0.6569 ug/L	0.6569 ppb	17:51:25
3	B 249.677†	-342.8	134.4	3.2581 ug/L	3.2581 ppb	17:51:25
3	Ba 233.527†	-9.6	-4.2	-0.0468 ug/L	-0.0468 ppb	17:51:25
3	Be 313.107†	-9965.0	77.9	0.0304 ug/L	0.0304 ppb	17:51:05
3	Cd 226.502†	-193.1	-7.7	-0.1034 ug/L	-0.1034 ppb	17:51:25
3	Co 228.616†	-72.0	-7.8	-0.2254 ug/L	-0.2254 ppb	17:51:25
3	Cr 267.716†	71.8	11.0	0.1457 ug/L	0.1457 ppb	17:51:25
3	Cu 324.752†	7657.6	118.5	0.4192 ug/L	0.4192 ppb	17:51:05
3	Mn 257.610†	440.9	18.2	0.0278 ug/L	0.0278 ppb	17:51:25
3	Mo 202.031†	12.6	4.8	0.4235 ug/L	0.4235 ppb	17:51:25
3	Ni 231.604†	80.6	14.0	0.4364 ug/L	0.4364 ppb	17:51:25
3	P 214.914†	210.0	-6.2	-3.3960 ug/L	-3.3960 ppb	17:51:25
3	Pb 220.353†	-57.0	3.1	0.4909 ug/L	0.4909 ppb	17:51:25
3	S 181.975 Axial†	45.8	-0.4	-0.4650 ug/L	-0.4650 ppb	17:51:25
3	Sb 206.836†	29.2	-4.1	-1.5376 ug/L	-1.5376 ppb	17:51:25
3	Se 196.026†	-19.3	2.1	1.1912 ug/L	1.1912 ppb	17:51:25
3	Si 251.611†	511.5	-12.1	-0.4234 ug/L	-0.4234 ppb	17:51:25
3	Sn 189.927†	12.9	7.4	1.7041 ug/L	1.7041 ppb	17:51:25
3	Ti 334.940†	-1139.4	-41.6	-0.0746 ug/L	-0.0746 ppb	17:51:05
3	Tl 190.801†	-41.9	-11.6	-5.2273 ug/L	-5.2273 ppb	17:51:25
3	U 409.014†	-2127.2	15.6	0.4972 ug/L	0.4972 ppb	17:51:05
3	V 292.402†	-1505.3	62.3	0.4868 ug/L	0.4868 ppb	17:51:05
3	Zn 213.857†	766.4	27.6	0.2943 ug/L	0.2943 ppb	17:51:25
3	SiO2†	566.3	55.5	4.1131 ug/L	4.1131 ppb	17:51:40

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	772624.0	97.736 %	1.1213			1.15%
Sc Radial	4755.3	98.0 %	0.93			0.95%
Y 371.029	690711.6	97.989 %	1.1566			1.18%
Y RADIAL	5023.0	98.68 %	0.600			0.61%
Ag 328.068†	-23.2	-0.1264 ug/L	0.55967	-0.1264 ppb	0.55967	442.61%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-7.1	-6.6254 ug/L	3.70565	-6.6254 ppb	3.70565	55.93%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.7	1.1781 ug/L	1.54896	1.1781 ppb	1.54896	131.48%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	130.4	3.1621 ug/L	0.44980	3.1621 ppb	0.44980	14.22%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.5	0.0490 ug/L	0.14799	0.0490 ppb	0.14799	301.97%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-19.8	-0.0082 ug/L	0.04730	-0.0082 ppb	0.04730	579.66%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	3.9	6.8773 ug/L	1.71877	6.8773 ppb	1.71877	24.99%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-0.5	-0.0034 ug/L	0.09726	-0.0034 ppb	0.09726	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	0.4	0.0120 ug/L	0.21203	0.0120 ppb	0.21203	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	0.6	0.0065 ug/L	0.12751	0.0065 ppb	0.12751	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	54.4	0.1905 ug/L	0.20722	0.1905 ppb	0.20722	108.75%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-3.4	-36.286 ug/L	13.6338	-36.286 ppb	13.6338	37.57%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	124.0	23.762 ug/L	1.0702	23.762 ppb	1.0702	4.50%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-2.3	-89.084 ug/L	35.9036	-89.084 ppb	35.9036	40.30%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	16.5	0.0254 ug/L	0.02238	0.0254 ppb	0.02238	88.03%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	2.9	0.2545 ug/L	0.50936	0.2545 ppb	0.50936	200.18%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	3.5	1.1879 ug/L	8.92824	1.1879 ppb	8.92824	751.59%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	5.9	0.1832 ug/L	0.22201	0.1832 ppb	0.22201	121.18%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-1.5	-0.8015 ug/L	2.24742	-0.8015 ppb	2.24742	280.39%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	8.7	1.3778 ug/L	1.42593	1.3778 ppb	1.42593	103.49%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-2.0	-2.5304 ug/L	1.90718	-2.5304 ppb	1.90718	75.37%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-1.4	-0.5151 ug/L	1.25072	-0.5151 ppb	1.25072	242.79%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.4	1.3542 ug/L	3.21607	1.3542 ppb	3.21607	237.50%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	8.3	0.2834 ug/L	0.63257	0.2834 ppb	0.63257	223.24%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	5.3	1.2114 ug/L	0.58688	1.2114 ppb	0.58688	48.44%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-5.5	-0.0397 ug/L	0.14577	-0.0397 ppb	0.14577	366.76%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-90.0	-0.1642 ug/L	0.11239	-0.1642 ppb	0.11239	68.44%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-8.4	-3.7664 ug/L	1.76353	-3.7664 ppb	1.76353	46.82%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	36.8	1.1691 ug/L	0.87199	1.1691 ppb	0.87199	74.59%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-18.6	-0.1326 ug/L	0.54065	-0.1326 ppb	0.54065	407.71%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	25.6	0.2768 ug/L	0.06130	0.2768 ppb	0.06130	22.15%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	52.5	3.8924 ug/L	2.27206	3.8924 ppb	2.27206	58.37%
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: 1
 Date Collected: 3/2/2010 18:53:35
 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	4925.1	4925.1	101 %		18:55:27
1	Y RADIAL	5154.4	5154.4	101.3 %		18:55:27
1	Al 396.153Radial†	5151.1	5162.0	4783.9 ug/L	4783.9 ppb	18:55:27
1	Ca 317.933Radial†	2840.1	2783.4	4902.3 ug/L	4902.3 ppb	18:55:47
1	Fe 238.204 Radial†	481.7	466.0	4932.5 ug/L	4932.5 ppb	18:55:47
1	K 766.490 Radial†	28310.2	25733.5	4924.8 ug/L	4924.8 ppb	18:55:27
1	Mg 279.077 IEC†	127.5	122.6	4852.9 ug/L	4852.9 ppb	18:55:47
1	Na 589.592 Radial†	29190.1	29129.8	9856.4 ug/L	9856.4 ppb	18:55:27
1	Sr 421.552†	69527.6	68495.2	493.32 ug/L	493.32 ppb	18:55:27
1	Sc 361.383	781585.3	781585.3	98.870 %		18:56:44
1	Y 371.029	690049.6	690049.6	97.895 %		18:56:44
1	Ag 328.068†	100185.7	101122.6	498.55 ug/L	498.55 ppb	18:56:50
1	As 188.979†	1099.5	1140.3	503.98 ug/L	503.98 ppb	18:57:10
1	B 249.677†	19740.8	20451.5	492.82 ug/L	492.82 ppb	18:56:50
1	Ba 233.527†	43707.8	44213.0	501.31 ug/L	501.31 ppb	18:56:50
1	Be 313.107†	1242237.6	1266706.7	497.82 ug/L	497.82 ppb	18:56:44
1	Cd 226.502†	36162.0	36765.2	503.45 ug/L	503.45 ppb	18:56:50
1	Co 228.616†	17393.5	17658.1	513.21 ug/L	513.21 ppb	18:56:50
1	Cr 267.716†	37571.1	37938.1	501.68 ug/L	501.68 ppb	18:56:50
1	Cu 324.752†	145343.4	139289.3	494.19 ug/L	494.19 ppb	18:56:50
1	Mn 257.610†	323054.5	326313.6	500.81 ug/L	500.81 ppb	18:56:50
1	Mo 202.031†	5514.9	5569.8	497.85 ug/L	497.85 ppb	18:57:10
1	Ni 231.604†	16355.1	16473.6	513.25 ug/L	513.25 ppb	18:56:50
1	P 214.914†	4755.6	4589.0	2390.4 ug/L	2390.4 ppb	18:57:10
1	Pb 220.353†	3065.5	3161.8	503.85 ug/L	503.85 ppb	18:57:10
1	S 181.975 Axial†	824.3	786.5	1008.6 ug/L	1008.6 ppb	18:57:10
1	Sb 206.836†	1316.3	1297.3	516.00 ug/L	516.00 ppb	18:57:10
1	Se 196.026†	818.2	849.4	512.40 ug/L	512.40 ppb	18:57:10
1	Si 251.611†	71930.8	72217.5	2493.4 ug/L	2493.4 ppb	18:56:50
1	Sn 189.927†	2137.4	2156.1	495.83 ug/L	495.83 ppb	18:57:10
1	Ti 334.940†	255055.1	259093.9	494.86 ug/L	494.86 ppb	18:56:50
1	Tl 190.801†	1069.6	1113.0	503.76 ug/L	503.76 ppb	18:57:10
1	U 409.014†	13295.0	15638.7	493.62 ug/L	493.62 ppb	18:56:50
1	V 292.402†	62760.1	65079.6	505.31 ug/L	505.31 ppb	18:56:50
1	Zn 213.857†	47154.7	46937.1	496.34 ug/L	496.34 ppb	18:56:50
1	SiO2†	70759.1	71043.9	5264.3 ug/L	5264.3 ppb	18:58:17
2	Sc Radial	4690.3	4690.3	96.6 %		18:55:52
2	Y RADIAL	4900.9	4900.9	96.28 %		18:55:52
2	Al 396.153Radial†	5209.4	5476.4	5077.0 ug/L	5077.0 ppb	18:55:52
2	Ca 317.933Radial†	2817.3	2899.9	5107.5 ug/L	5107.5 ppb	18:56:12
2	Fe 238.204 Radial†	476.6	484.5	5127.6 ug/L	5127.6 ppb	18:56:12
2	K 766.490 Radial†	28064.6	26876.4	5143.5 ug/L	5143.5 ppb	18:55:52
2	Mg 279.077 IEC†	127.8	129.2	5113.5 ug/L	5113.5 ppb	18:56:12
2	Na 589.592 Radial†	29059.0	30434.5	10298 ug/L	10298 ppb	18:55:52
2	Sr 421.552†	69488.3	71885.5	517.73 ug/L	517.73 ppb	18:55:52
2	Sc 361.383	779942.8	779942.8	98.662 %		18:57:15
2	Y 371.029	688769.3	688769.3	97.713 %		18:57:15
2	Ag 328.068†	99040.8	100175.6	493.96 ug/L	493.96 ppb	18:57:21
2	As 188.979†	1093.4	1136.5	502.31 ug/L	502.31 ppb	18:57:41
2	B 249.677†	19565.7	20316.1	489.52 ug/L	489.52 ppb	18:57:21
2	Ba 233.527†	43184.3	43775.5	496.36 ug/L	496.36 ppb	18:57:21
2	Be 313.107†	1234064.9	1261069.3	495.60 ug/L	495.60 ppb	18:57:15
2	Cd 226.502†	35760.8	36435.5	498.91 ug/L	498.91 ppb	18:57:21
2	Co 228.616†	17204.2	17503.3	508.71 ug/L	508.71 ppb	18:57:21
2	Cr 267.716†	37071.3	37511.5	496.05 ug/L	496.05 ppb	18:57:21
2	Cu 324.752†	142845.3	137066.9	486.32 ug/L	486.32 ppb	18:57:21
2	Mn 257.610†	318700.2	322588.4	495.10 ug/L	495.10 ppb	18:57:21
2	Mo 202.031†	5473.2	5539.2	495.13 ug/L	495.13 ppb	18:57:41
2	Ni 231.604†	16205.1	16356.4	509.60 ug/L	509.60 ppb	18:57:21

2	P 214.914†	4725.6	4568.7	2380.8 ug/L	2380.8 ppb	18:57:41
2	Pb 220.353†	3036.8	3139.3	500.32 ug/L	500.32 ppb	18:57:41
2	S 181.975 Axial†	813.1	776.9	996.18 ug/L	996.18 ppb	18:57:41
2	Sb 206.836†	1293.4	1277.0	508.09 ug/L	508.09 ppb	18:57:41
2	Se 196.026†	813.0	845.9	510.78 ug/L	510.78 ppb	18:57:41
2	Si 251.611†	70816.1	71240.9	2459.6 ug/L	2459.6 ppb	18:57:21
2	Sn 189.927†	2123.6	2146.6	493.68 ug/L	493.68 ppb	18:57:41
2	Ti 334.940†	251710.5	256247.3	489.43 ug/L	489.43 ppb	18:57:21
2	Tl 190.801†	1059.5	1105.1	500.16 ug/L	500.16 ppb	18:57:41
2	U 409.014†	12961.1	15328.6	483.79 ug/L	483.79 ppb	18:57:21
2	V 292.402†	62063.8	64507.5	500.85 ug/L	500.85 ppb	18:57:21
2	Zn 213.857†	46555.5	46430.3	490.93 ug/L	490.93 ppb	18:57:21
2	SiO2†	71538.4	71984.5	5334.2 ug/L	5334.2 ppb	18:58:22
3	Sc Radial	4837.5	4837.5	99.7 %		18:56:17
3	Y RADIAL	5075.2	5075.2	99.70 %		18:56:17
3	Al 396.153Radial†	5252.7	5355.9	4964.8 ug/L	4964.8 ppb	18:56:17
3	Ca 317.933Radial†	2821.7	2815.6	4959.0 ug/L	4959.0 ppb	18:56:37
3	Fe 238.204 Radial†	477.9	470.7	4982.8 ug/L	4982.8 ppb	18:56:37
3	K 766.490 Radial†	28716.0	26646.1	5099.5 ug/L	5099.5 ppb	18:56:17
3	Mg 279.077 IEC†	128.5	125.9	4981.4 ug/L	4981.4 ppb	18:56:37
3	Na 589.592 Radial†	29416.1	29877.6	10109 ug/L	10109 ppb	18:56:17
3	Sr 421.552†	70488.1	70700.0	509.20 ug/L	509.20 ppb	18:56:17
3	Sc 361.383	787514.6	787514.6	99.620 %		18:57:46
3	Y 371.029	696471.1	696471.1	98.806 %		18:57:46
3	Ag 328.068†	99958.7	100131.9	493.70 ug/L	493.70 ppb	18:57:51
3	As 188.979†	1100.1	1132.6	500.58 ug/L	500.58 ppb	18:58:11
3	B 249.677†	19829.8	20390.6	491.35 ug/L	491.35 ppb	18:57:51
3	Ba 233.527†	43590.6	43762.5	496.21 ug/L	496.21 ppb	18:57:51
3	Be 313.107†	1248371.1	1263403.8	496.51 ug/L	496.51 ppb	18:57:46
3	Cd 226.502†	36101.1	36428.5	498.83 ug/L	498.83 ppb	18:57:51
3	Co 228.616†	17365.5	17497.5	508.54 ug/L	508.54 ppb	18:57:51
3	Cr 267.716†	37477.5	37558.0	496.66 ug/L	496.66 ppb	18:57:51
3	Cu 324.752†	145134.1	137972.3	489.53 ug/L	489.53 ppb	18:57:51
3	Mn 257.610†	322085.2	322880.5	495.54 ug/L	495.54 ppb	18:57:51
3	Mo 202.031†	5506.0	5518.8	493.30 ug/L	493.30 ppb	18:58:11
3	Ni 231.604†	16340.1	16333.9	508.90 ug/L	508.90 ppb	18:57:51
3	P 214.914†	4741.4	4538.5	2363.9 ug/L	2363.9 ppb	18:58:11
3	Pb 220.353†	3038.5	3111.4	495.87 ug/L	495.87 ppb	18:58:11
3	S 181.975 Axial†	822.5	778.3	998.09 ug/L	998.09 ppb	18:58:11
3	Sb 206.836†	1305.4	1276.4	507.78 ug/L	507.78 ppb	18:58:11
3	Se 196.026†	820.6	845.6	510.26 ug/L	510.26 ppb	18:58:11
3	Si 251.611†	71726.0	71464.2	2467.4 ug/L	2467.4 ppb	18:57:51
3	Sn 189.927†	2129.0	2131.3	490.14 ug/L	490.14 ppb	18:58:11
3	Ti 334.940†	254586.0	256680.8	490.25 ug/L	490.25 ppb	18:57:51
3	Tl 190.801†	1052.0	1087.3	492.13 ug/L	492.13 ppb	18:58:11
3	U 409.014†	13141.5	15383.4	485.54 ug/L	485.54 ppb	18:57:51
3	V 292.402†	62676.6	64517.9	500.92 ug/L	500.92 ppb	18:57:51
3	Zn 213.857†	47038.5	46461.4	491.29 ug/L	491.29 ppb	18:57:51
3	SiO2†	70776.2	70522.3	5225.6 ug/L	5225.6 ppb	18:58:27

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	783014.2	99.051 %	0.5039			0.51%
Sc Radial	4817.6	99.3 %	2.45			2.46%
Y 371.029	691763.3	98.138 %	0.5855			0.60%
Y RADIAL	5043.5	99.08 %	2.548			2.57%
Ag 328.068†	100476.7	495.40 ug/L	2.729	495.40 ppb	2.729	0.55%
QC value within limits for Ag 328.068 Recovery = 99.08%						
Al 396.153Radial†	5331.4	4941.9 ug/L	147.85	4941.9 ppb	147.85	2.99%
QC value within limits for Al 396.153Radial Recovery = 98.84%						
As 188.979†	1136.5	502.29 ug/L	1.703	502.29 ppb	1.703	0.34%
QC value within limits for As 188.979 Recovery = 100.46%						
B 249.677†	20386.1	491.23 ug/L	1.652	491.23 ppb	1.652	0.34%
QC value within limits for B 249.677 Recovery = 98.25%						
Ba 233.527†	43917.0	497.96 ug/L	2.903	497.96 ppb	2.903	0.58%
QC value within limits for Ba 233.527 Recovery = 99.59%						
Be 313.107†	1263726.6	496.64 ug/L	1.117	496.64 ppb	1.117	0.22%
QC value within limits for Be 313.107 Recovery = 99.33%						
Ca 317.933Radial†	2833.0	4989.6 ug/L	105.98	4989.6 ppb	105.98	2.12%

QC value within limits for Ca 317.933 Radial Recovery = 99.79%							
Cd 226.502†	36543.1	500.39 ug/L	2.644	500.39 ppb	2.644	0.53%	
QC value within limits for Cd 226.502 Recovery = 100.08%							
Co 228.616†	17553.0	510.15 ug/L	2.646	510.15 ppb	2.646	0.52%	
QC value within limits for Co 228.616 Recovery = 102.03%							
Cr 267.716†	37669.2	498.13 ug/L	3.090	498.13 ppb	3.090	0.62%	
QC value within limits for Cr 267.716 Recovery = 99.63%							
Cu 324.752†	138109.5	490.02 ug/L	3.957	490.02 ppb	3.957	0.81%	
QC value within limits for Cu 324.752 Recovery = 98.00%							
Fe 238.204 Radial†	473.7	5014.3 ug/L	101.28	5014.3 ppb	101.28	2.02%	
QC value within limits for Fe 238.204 Radial Recovery = 100.29%							
K 766.490 Radial†	26418.7	5055.9 ug/L	115.71	5055.9 ppb	115.71	2.29%	
QC value within limits for K 766.490 Radial Recovery = 101.12%							
Mg 279.077 IEC†	125.9	4982.6 ug/L	130.27	4982.6 ppb	130.27	2.61%	
QC value within limits for Mg 279.077 IEC Recovery = 99.65%							
Mn 257.610†	323927.5	497.15 ug/L	3.175	497.15 ppb	3.175	0.64%	
QC value within limits for Mn 257.610 Recovery = 99.43%							
Mo 202.031†	5542.6	495.43 ug/L	2.290	495.43 ppb	2.290	0.46%	
QC value within limits for Mo 202.031 Recovery = 99.09%							
Na 589.592 Radial†	29813.9	10088 ug/L	221.5	10088 ppb	221.5	2.20%	
QC value within limits for Na 589.592 Radial Recovery = 100.88%							
Ni 231.604†	16388.0	510.59 ug/L	2.336	510.59 ppb	2.336	0.46%	
QC value within limits for Ni 231.604 Recovery = 102.12%							
P 214.914†	4565.4	2378.4 ug/L	13.43	2378.4 ppb	13.43	0.56%	
QC value within limits for P 214.914 Recovery = 95.13%							
Pb 220.353†	3137.5	500.01 ug/L	3.999	500.01 ppb	3.999	0.80%	
QC value within limits for Pb 220.353 Recovery = 100.00%							
S 181.975 Axial†	780.6	1000.9 ug/L	6.67	1000.9 ppb	6.67	0.67%	
QC value within limits for S 181.975 Axial Recovery = 100.09%							
Sb 206.836†	1283.6	510.62 ug/L	4.657	510.62 ppb	4.657	0.91%	
QC value within limits for Sb 206.836 Recovery = 102.12%							
Se 196.026†	847.0	511.15 ug/L	1.116	511.15 ppb	1.116	0.22%	
QC value within limits for Se 196.026 Recovery = 102.23%							
Si 251.611†	71640.9	2473.5 ug/L	17.69	2473.5 ppb	17.69	0.72%	
QC value within limits for Si 251.611 Recovery = 98.94%							
Sn 189.927†	2144.7	493.22 ug/L	2.869	493.22 ppb	2.869	0.58%	
QC value within limits for Sn 189.927 Recovery = 98.64%							
Sr 421.552†	70360.2	506.75 ug/L	12.391	506.75 ppb	12.391	2.45%	
QC value within limits for Sr 421.552 Recovery = 101.35%							
Ti 334.940†	257340.6	491.51 ug/L	2.925	491.51 ppb	2.925	0.60%	
QC value within limits for Ti 334.940 Recovery = 98.30%							
Tl 190.801†	1101.8	498.68 ug/L	5.953	498.68 ppb	5.953	1.19%	
QC value within limits for Tl 190.801 Recovery = 99.74%							
U 409.014†	15450.2	487.65 ug/L	5.244	487.65 ppb	5.244	1.08%	
QC value within limits for U 409.014 Recovery = 97.53%							
V 292.402†	64701.7	502.36 ug/L	2.552	502.36 ppb	2.552	0.51%	
QC value within limits for V 292.402 Recovery = 100.47%							
Zn 213.857†	46609.6	492.85 ug/L	3.024	492.85 ppb	3.024	0.61%	
QC value within limits for Zn 213.857 Recovery = 98.57%							
SiO2†	71183.6	5274.7 ug/L	55.04	5274.7 ppb	55.04	1.04%	
QC value within limits for SiO2 Recovery = 98.64%							
All analyte(s) passed QC.							

Sequence No.: 13
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/2/2010 19:00:37
 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	4886.3	4886.3	101 %		19:02:29
1	Y RADIAL	5164.5	5164.5	101.5 %		19:02:29
1	Al 396.153Radial†	-83.2	3.2	2.9461 ug/L	2.9461 ppb	19:02:49
1	Ca 317.933Radial†	30.6	15.0	26.350 ug/L	26.350 ppb	19:02:49
1	Fe 238.204 Radial†	8.0	-0.8	-8.0533 ug/L	-8.0533 ppb	19:02:49
1	K 766.490 Radial†	2216.9	37.5	7.1673 ug/L	7.1673 ppb	19:02:29
1	Mg 279.077 IEC†	3.4	0.4	14.205 ug/L	14.205 ppb	19:02:49
1	Na 589.592 Radial†	-347.9	19.1	6.4475 ug/L	6.4475 ppb	19:02:29
1	Sr 421.552†	32.0	11.5	0.0825 ug/L	0.0825 ppb	19:02:29
1	Sc 361.383	780569.6	780569.6	98.742 %		19:03:46
1	Y 371.029	697511.0	697511.0	98.953 %		19:03:46
1	Ag 328.068†	259.5	54.8	0.2646 ug/L	0.2646 ppb	19:03:46
1	As 188.979†	-27.9	0.0	0.0153 ug/L	0.0153 ppb	19:04:06
1	B 249.677†	-256.3	225.5	5.4611 ug/L	5.4611 ppb	19:04:06
1	Ba 233.527†	-4.2	1.5	0.0154 ug/L	0.0154 ppb	19:04:06
1	Be 313.107†	-10031.8	112.6	0.0437 ug/L	0.0437 ppb	19:03:46
1	Cd 226.502†	-180.5	7.0	0.0971 ug/L	0.0971 ppb	19:04:06
1	Co 228.616†	-66.1	-1.1	-0.0320 ug/L	-0.0320 ppb	19:04:06
1	Cr 267.716†	69.3	7.8	0.1028 ug/L	0.1028 ppb	19:04:06
1	Cu 324.752†	7670.2	52.7	0.1869 ug/L	0.1869 ppb	19:03:46
1	Mn 257.610†	446.5	19.3	0.0282 ug/L	0.0282 ppb	19:04:06
1	Mo 202.031†	8.4	0.3	0.0284 ug/L	0.0284 ppb	19:04:06
1	Ni 231.604†	69.1	1.5	0.0467 ug/L	0.0467 ppb	19:04:06
1	P 214.914†	228.0	10.0	5.3854 ug/L	5.3854 ppb	19:04:06
1	Pb 220.353†	-59.0	1.6	0.2568 ug/L	0.2568 ppb	19:04:06
1	S 181.975 Axial†	43.2	-3.5	-4.4820 ug/L	-4.4820 ppb	19:04:06
1	Sb 206.836†	33.3	-0.3	-0.1086 ug/L	-0.1086 ppb	19:04:06
1	Se 196.026†	-11.1	10.6	6.2268 ug/L	6.2268 ppb	19:04:06
1	Si 251.611†	538.0	9.5	0.3297 ug/L	0.3297 ppb	19:04:06
1	Sn 189.927†	10.0	4.4	1.0200 ug/L	1.0200 ppb	19:04:06
1	Ti 334.940†	-1208.2	-99.6	-0.1876 ug/L	-0.1876 ppb	19:03:46
1	Tl 190.801†	-34.7	-3.9	-1.7387 ug/L	-1.7387 ppb	19:04:06
1	U 409.014†	-2189.6	-25.8	-0.8165 ug/L	-0.8165 ppb	19:03:46
1	V 292.402†	-1635.3	-53.9	-0.4124 ug/L	-0.4124 ppb	19:03:46
1	Zn 213.857†	784.0	37.6	0.4016 ug/L	0.4016 ppb	19:04:06
1	SiO2†	540.1	23.1	1.7165 ug/L	1.7165 ppb	19:05:02
2	Sc Radial	4828.4	4828.4	99.5 %		19:02:54
2	Y RADIAL	5114.5	5114.5	100.5 %		19:02:54
2	Al 396.153Radial†	-76.5	8.9	8.3096 ug/L	8.3096 ppb	19:03:14
2	Ca 317.933Radial†	22.5	7.2	12.751 ug/L	12.751 ppb	19:03:14
2	Fe 238.204 Radial†	6.6	-2.1	-22.171 ug/L	-22.171 ppb	19:03:14
2	K 766.490 Radial†	2175.5	22.3	4.2594 ug/L	4.2594 ppb	19:02:54
2	Mg 279.077 IEC†	2.5	-0.5	-20.899 ug/L	-20.899 ppb	19:03:14
2	Na 589.592 Radial†	-330.0	32.9	11.130 ug/L	11.130 ppb	19:02:54
2	Sr 421.552†	34.7	14.6	0.1050 ug/L	0.1050 ppb	19:02:54
2	Sc 361.383	772816.4	772816.4	97.761 %		19:04:11
2	Y 371.029	689924.8	689924.8	97.877 %		19:04:11
2	Ag 328.068†	193.8	-9.8	-0.0519 ug/L	-0.0519 ppb	19:04:11
2	As 188.979†	-30.7	-3.1	-1.3585 ug/L	-1.3585 ppb	19:04:31
2	B 249.677†	-224.8	255.2	6.1806 ug/L	6.1806 ppb	19:04:31
2	Ba 233.527†	-13.2	-7.8	-0.0884 ug/L	-0.0884 ppb	19:04:31
2	Be 313.107†	-10077.7	-36.3	-0.0148 ug/L	-0.0148 ppb	19:04:11
2	Cd 226.502†	-195.6	-10.3	-0.1392 ug/L	-0.1392 ppb	19:04:31
2	Co 228.616†	-62.5	2.0	0.0566 ug/L	0.0566 ppb	19:04:31
2	Cr 267.716†	60.7	-0.3	-0.0031 ug/L	-0.0031 ppb	19:04:31
2	Cu 324.752†	7608.4	67.4	0.2397 ug/L	0.2397 ppb	19:04:11
2	Mn 257.610†	409.0	-14.5	-0.0236 ug/L	-0.0236 ppb	19:04:31
2	Mo 202.031†	3.8	-4.2	-0.3805 ug/L	-0.3805 ppb	19:04:31
2	Ni 231.604†	67.8	0.8	0.0262 ug/L	0.0262 ppb	19:04:31

2	P 214.914†	206.3	-9.9	-5.4067 ug/L	-5.4067 ppb	19:04:31
2	Pb 220.353†	-42.8	17.5	2.7877 ug/L	2.7877 ppb	19:04:31
2	S 181.975 Axial†	50.4	4.3	5.5435 ug/L	5.5435 ppb	19:04:31
2	Sb 206.836†	47.0	14.0	5.4066 ug/L	5.4066 ppb	19:04:31
2	Se 196.026†	-24.0	-2.7	-1.6147 ug/L	-1.6147 ppb	19:04:31
2	Si 251.611†	529.3	6.1	0.2162 ug/L	0.2162 ppb	19:04:31
2	Sn 189.927†	11.3	5.8	1.3246 ug/L	1.3246 ppb	19:04:31
2	Ti 334.940†	-1232.0	-136.3	-0.2556 ug/L	-0.2556 ppb	19:04:11
2	Tl 190.801†	-36.7	-6.3	-2.8146 ug/L	-2.8146 ppb	19:04:31
2	U 409.014†	-2237.9	-97.4	-3.0813 ug/L	-3.0813 ppb	19:04:11
2	V 292.402†	-1554.1	12.5	0.0879 ug/L	0.0879 ppb	19:04:11
2	Zn 213.857†	783.9	45.4	0.4875 ug/L	0.4875 ppb	19:04:31
2	SiO2†	549.7	38.4	2.8632 ug/L	2.8632 ppb	19:05:07
3	Sc Radial	4899.7	4899.7	101 %		19:03:19
3	Y RADIAL	5167.0	5167.0	101.5 %		19:03:19
3	Al 396.153Radial†	-70.8	15.7	14.619 ug/L	14.619 ppb	19:03:39
3	Ca 317.933Radial†	26.4	10.8	19.026 ug/L	19.026 ppb	19:03:39
3	Fe 238.204 Radial†	7.5	-1.3	-13.749 ug/L	-13.749 ppb	19:03:39
3	K 766.490 Radial†	2219.1	33.7	6.4500 ug/L	6.4500 ppb	19:03:19
3	Mg 279.077 IEC†	0.6	-2.4	-95.686 ug/L	-95.686 ppb	19:03:39
3	Na 589.592 Radial†	-355.9	12.1	4.0856 ug/L	4.0856 ppb	19:03:19
3	Sr 421.552†	6.6	-13.8	-0.0992 ug/L	-0.0992 ppb	19:03:19
3	Sc 361.383	774016.6	774016.6	97.913 %		19:04:37
3	Y 371.029	691919.6	691919.6	98.160 %		19:04:37
3	Ag 328.068†	220.9	17.5	0.0839 ug/L	0.0839 ppb	19:04:37
3	As 188.979†	-34.3	-6.7	-2.9549 ug/L	-2.9549 ppb	19:04:57
3	B 249.677†	-257.7	221.9	5.3758 ug/L	5.3758 ppb	19:04:57
3	Ba 233.527†	-11.0	-5.5	-0.0628 ug/L	-0.0628 ppb	19:04:57
3	Be 313.107†	-10026.5	32.1	0.0122 ug/L	0.0122 ppb	19:04:37
3	Cd 226.502†	-204.9	-19.4	-0.2652 ug/L	-0.2652 ppb	19:04:57
3	Co 228.616†	-73.5	-9.2	-0.2682 ug/L	-0.2682 ppb	19:04:57
3	Cr 267.716†	55.2	-6.1	-0.0794 ug/L	-0.0794 ppb	19:04:57
3	Cu 324.752†	7563.2	9.2	0.0332 ug/L	0.0332 ppb	19:04:37
3	Mn 257.610†	429.3	5.6	0.0111 ug/L	0.0111 ppb	19:04:57
3	Mo 202.031†	7.9	-0.0	-0.0031 ug/L	-0.0031 ppb	19:04:57
3	Ni 231.604†	75.3	8.4	0.2633 ug/L	0.2633 ppb	19:04:57
3	P 214.914†	216.2	-0.1	-0.0538 ug/L	-0.0538 ppb	19:04:57
3	Pb 220.353†	-52.1	8.2	1.3043 ug/L	1.3043 ppb	19:04:57
3	S 181.975 Axial†	43.2	-3.2	-4.0768 ug/L	-4.0768 ppb	19:04:57
3	Sb 206.836†	38.3	5.1	1.9980 ug/L	1.9980 ppb	19:04:57
3	Se 196.026†	-18.8	2.6	1.5065 ug/L	1.5065 ppb	19:04:57
3	Si 251.611†	516.8	-7.5	-0.2579 ug/L	-0.2579 ppb	19:04:57
3	Sn 189.927†	11.1	5.6	1.2972 ug/L	1.2972 ppb	19:04:57
3	Ti 334.940†	-1176.7	-77.8	-0.1373 ug/L	-0.1373 ppb	19:04:37
3	Tl 190.801†	-37.6	-7.2	-3.2385 ug/L	-3.2385 ppb	19:04:57
3	U 409.014†	-2211.2	-66.6	-2.1061 ug/L	-2.1061 ppb	19:04:37
3	V 292.402†	-1545.3	24.0	0.1800 ug/L	0.1800 ppb	19:04:37
3	Zn 213.857†	777.9	38.1	0.4069 ug/L	0.4069 ppb	19:04:57
3	SiO2†	523.9	11.2	0.8333 ug/L	0.8333 ppb	19:05:12

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	775800.9	98.138 %	0.5279			0.54%
Sc Radial	4871.4	100 %	0.8			0.78%
Y 371.029	693118.5	98.330 %	0.5579			0.57%
Y RADIAL	5148.6	101.1 %	0.58			0.57%
Ag 328.068†	20.8	0.0988 ug/L	0.15881	0.0988 ppb	0.15881	160.67%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	9.3	8.6249 ug/L	5.84276	8.6249 ppb	5.84276	67.74%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.3	-1.4327 ug/L	1.48649	-1.4327 ppb	1.48649	103.75%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	234.2	5.6725 ug/L	0.44213	5.6725 ppb	0.44213	7.79%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-4.0	-0.0453 ug/L	0.05404	-0.0453 ppb	0.05404	119.39%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	36.1	0.0137 ug/L	0.02929	0.0137 ppb	0.02929	213.55%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	11.0	19.375 ug/L	6.8063	19.375 ppb	6.8063	35.13%

QC value within limits for Ca 317.933 Radial	Recovery = Not calculated		
Cd 226.502†	-7.6 -0.1024 ug/L	0.18389 -0.1024 ppb	0.18389 179.54%
QC value within limits for Cd 226.502	Recovery = Not calculated		
Co 228.616†	-2.8 -0.0812 ug/L	0.16791 -0.0812 ppb	0.16791 206.77%
QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	0.5 0.0068 ug/L	0.09149 0.0068 ppb	0.09149 >999.9%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	43.1 0.1533 ug/L	0.10731 0.1533 ppb	0.10731 70.01%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	-1.4 -14.658 ug/L	7.1024 -14.658 ppb	7.1024 48.46%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	31.1 5.9589 ug/L	1.51487 5.9589 ppb	1.51487 25.42%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-0.9 -34.126 ug/L	56.1271 -34.126 ppb	56.1271 164.47%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	3.4 0.0052 ug/L	0.02640 0.0052 ppb	0.02640 504.42%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	-1.3 -0.1184 ug/L	0.22755 -0.1184 ppb	0.22755 192.19%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	21.3 7.2209 ug/L	3.58515 7.2209 ppb	3.58515 49.65%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	3.6 0.1121 ug/L	0.13135 0.1121 ppb	0.13135 117.21%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-0.0 -0.0250 ug/L	5.39611 -0.0250 ppb	5.39611 >999.9%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	9.1 1.4496 ug/L	1.27168 1.4496 ppb	1.27168 87.73%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-0.8 -1.0051 ug/L	5.67491 -1.0051 ppb	5.67491 564.61%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	6.3 2.4320 ug/L	2.78308 2.4320 ppb	2.78308 114.44%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	3.5 2.0395 ug/L	3.94784 2.0395 ppb	3.94784 193.57%
QC value within limits for Se 196.026	Recovery = Not calculated		
Si 251.611†	2.7 0.0960 ug/L	0.31171 0.0960 ppb	0.31171 324.64%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	5.3 1.2139 ug/L	0.16851 1.2139 ppb	0.16851 13.88%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	4.1 0.0294 ug/L	0.11199 0.0294 ppb	0.11199 380.43%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	-104.6 -0.1935 ug/L	0.05935 -0.1935 ppb	0.05935 30.67%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-5.8 -2.5973 ug/L	0.77319 -2.5973 ppb	0.77319 29.77%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	-63.2 -2.0013 ug/L	1.13605 -2.0013 ppb	1.13605 56.77%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-5.8 -0.0482 ug/L	0.31873 -0.0482 ppb	0.31873 661.57%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	40.4 0.4320 ug/L	0.04816 0.4320 ppb	0.04816 11.15%
QC value within limits for Zn 213.857	Recovery = Not calculated		
SiO2†	24.2 1.8043 ug/L	1.01783 1.8043 ppb	1.01783 56.41%
QC value within limits for SiO2	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 23
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 3/2/2010 20:08:29
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4727.8	4727.8	97.4 %		20:10:21
1	Y RADIAL	4963.8	4963.8	97.51 %		20:10:21
1	Al 396.153Radial†	5094.6	5315.8	4927.0 ug/L	4927.0 ppb	20:10:21
1	Ca 317.933Radial†	2846.8	2907.1	5120.1 ug/L	5120.1 ppb	20:10:41
1	Fe 238.204 Radial†	494.9	499.3	5284.6 ug/L	5284.6 ppb	20:10:41
1	K 766.490 Radial†	27681.2	26252.3	5023.8 ug/L	5023.8 ppb	20:10:21
1	Mg 279.077 IEC†	129.3	129.7	5133.5 ug/L	5133.5 ppb	20:10:41
1	Na 589.592 Radial†	30285.7	31455.1	10643 ug/L	10643 ppb	20:10:21
1	Sr 421.552†	69789.4	71623.7	515.85 ug/L	515.85 ppb	20:10:21
1	Sc 361.383	782513.9	782513.9	98.988 %		20:11:38
1	Y 371.029	692259.7	692259.7	98.208 %		20:11:38
1	Ag 328.068†	100252.6	101069.9	498.40 ug/L	498.40 ppb	20:11:43
1	As 188.979†	1109.8	1149.5	508.06 ug/L	508.06 ppb	20:12:03
1	B 249.677†	19735.7	20422.7	492.08 ug/L	492.08 ppb	20:11:43
1	Ba 233.527†	43627.4	44079.3	499.81 ug/L	499.81 ppb	20:11:43
1	Be 313.107†	1247821.9	1270857.3	499.44 ug/L	499.44 ppb	20:11:38
1	Cd 226.502†	35976.9	36534.7	500.25 ug/L	500.25 ppb	20:11:43
1	Co 228.616†	17268.9	17511.3	508.95 ug/L	508.95 ppb	20:11:43
1	Cr 267.716†	37520.5	37841.9	500.42 ug/L	500.42 ppb	20:11:43
1	Cu 324.752†	145582.0	139355.9	494.45 ug/L	494.45 ppb	20:11:43
1	Mn 257.610†	321635.0	324491.8	498.04 ug/L	498.04 ppb	20:11:43
1	Mo 202.031†	5562.0	5610.8	501.53 ug/L	501.53 ppb	20:12:03
1	Ni 231.604†	16308.5	16406.8	511.17 ug/L	511.17 ppb	20:11:43
1	P 214.914†	4774.8	4602.7	2397.5 ug/L	2397.5 ppb	20:12:03
1	Pb 220.353†	3075.3	3168.1	504.87 ug/L	504.87 ppb	20:12:03
1	S 181.975 Axial†	821.2	782.3	1003.2 ug/L	1003.2 ppb	20:12:03
1	Sb 206.836†	1321.0	1300.5	517.37 ug/L	517.37 ppb	20:12:03
1	Se 196.026†	817.3	847.5	512.11 ug/L	512.11 ppb	20:12:03
1	Si 251.611†	71522.8	71719.0	2476.1 ug/L	2476.1 ppb	20:11:43
1	Sn 189.927†	2158.3	2174.6	500.09 ug/L	500.09 ppb	20:12:03
1	Ti 334.940†	254807.7	258537.9	493.80 ug/L	493.80 ppb	20:11:43
1	Tl 190.801†	1062.9	1105.1	500.16 ug/L	500.16 ppb	20:12:03
1	U 409.014†	13286.0	15613.7	492.79 ug/L	492.79 ppb	20:11:43
1	V 292.402†	62875.5	65120.8	505.63 ug/L	505.63 ppb	20:11:43
1	Zn 213.857†	47001.2	46725.5	494.04 ug/L	494.04 ppb	20:11:43
1	SiO2†	71627.4	71836.2	5323.0 ug/L	5323.0 ppb	20:13:11
2	Sc Radial	4855.5	4855.5	100 %		20:10:46
2	Y RADIAL	5066.5	5066.5	99.53 %		20:10:46
2	Al 396.153Radial†	5205.5	5289.2	4902.7 ug/L	4902.7 ppb	20:10:46
2	Ca 317.933Radial†	2827.3	2810.7	4950.3 ug/L	4950.3 ppb	20:11:06
2	Fe 238.204 Radial†	489.5	480.5	5085.8 ug/L	5085.8 ppb	20:11:06
2	K 766.490 Radial†	28125.6	25949.4	4965.8 ug/L	4965.8 ppb	20:10:46
2	Mg 279.077 IEC†	131.3	128.3	5075.5 ug/L	5075.5 ppb	20:11:06
2	Na 589.592 Radial†	30909.3	31261.0	10578 ug/L	10578 ppb	20:10:46
2	Sr 421.552†	71558.3	71508.1	515.02 ug/L	515.02 ppb	20:10:46
2	Sc 361.383	790054.6	790054.6	99.941 %		20:12:09
2	Y 371.029	697915.9	697915.9	99.011 %		20:12:09
2	Ag 328.068†	100300.5	100151.3	493.82 ug/L	493.82 ppb	20:12:14
2	As 188.979†	1099.3	1128.3	498.72 ug/L	498.72 ppb	20:12:34
2	B 249.677†	19735.9	20232.6	487.51 ug/L	487.51 ppb	20:12:14
2	Ba 233.527†	43946.5	43977.9	498.65 ug/L	498.65 ppb	20:12:14
2	Be 313.107†	1262703.6	1273715.9	500.56 ug/L	500.56 ppb	20:12:09
2	Cd 226.502†	36212.5	36423.6	498.75 ug/L	498.75 ppb	20:12:14
2	Co 228.616†	17424.1	17500.1	508.61 ug/L	508.61 ppb	20:12:14
2	Cr 267.716†	37729.7	37689.4	498.39 ug/L	498.39 ppb	20:12:14
2	Cu 324.752†	145527.3	137897.3	489.26 ug/L	489.26 ppb	20:12:14
2	Mn 257.610†	323785.8	323542.6	496.56 ug/L	496.56 ppb	20:12:14
2	Mo 202.031†	5523.0	5518.1	493.24 ug/L	493.24 ppb	20:12:34
2	Ni 231.604†	16435.5	16376.6	510.23 ug/L	510.23 ppb	20:12:14

2	P 214.914†	4746.4	4528.3	2358.3 ug/L	2358.3 ppb	20:12:34
2	Pb 220.353†	3064.0	3127.1	498.35 ug/L	498.35 ppb	20:12:34
2	S 181.975 Axial†	817.4	770.6	988.15 ug/L	988.15 ppb	20:12:34
2	Sb 206.836†	1325.9	1292.7	514.09 ug/L	514.09 ppb	20:12:34
2	Se 196.026†	809.9	832.2	502.62 ug/L	502.62 ppb	20:12:34
2	Si 251.611†	71848.1	71354.9	2463.6 ug/L	2463.6 ppb	20:12:14
2	Sn 189.927†	2151.0	2146.5	493.61 ug/L	493.61 ppb	20:12:34
2	Ti 334.940†	255498.7	256772.4	490.41 ug/L	490.41 ppb	20:12:14
2	Tl 190.801†	1066.6	1098.4	497.16 ug/L	497.16 ppb	20:12:34
2	U 409.014†	13377.1	15576.7	491.64 ug/L	491.64 ppb	20:12:14
2	V 292.402†	62996.4	64635.6	501.82 ug/L	501.82 ppb	20:12:14
2	Zn 213.857†	47333.7	46605.0	492.80 ug/L	492.80 ppb	20:12:14
2	SiO2†	70771.5	70289.1	5208.3 ug/L	5208.3 ppb	20:13:16
3	Sc Radial	4754.5	4754.5	98.0 %		20:11:11
3	Y RADIAL	4985.6	4985.6	97.94 %		20:11:11
3	Al 396.153Radial†	5112.5	5304.7	4917.1 ug/L	4917.1 ppb	20:11:11
3	Ca 317.933Radial†	2841.8	2885.5	5082.1 ug/L	5082.1 ppb	20:11:31
3	Fe 238.204 Radial†	487.9	489.3	5178.6 ug/L	5178.6 ppb	20:11:31
3	K 766.490 Radial†	27691.9	26103.4	4995.3 ug/L	4995.3 ppb	20:11:11
3	Mg 279.077 IEC†	130.7	130.4	5159.5 ug/L	5159.5 ppb	20:11:31
3	Na 589.592 Radial†	30166.6	31158.7	10543 ug/L	10543 ppb	20:11:11
3	Sr 421.552†	70028.3	71464.6	514.70 ug/L	514.70 ppb	20:11:11
3	Sc 361.383	784475.0	784475.0	99.236 %		20:12:40
3	Y 371.029	693142.1	693142.1	98.333 %		20:12:40
3	Ag 328.068†	98464.7	99015.1	488.26 ug/L	488.26 ppb	20:12:45
3	As 188.979†	1102.9	1139.7	503.67 ug/L	503.67 ppb	20:13:05
3	B 249.677†	19293.3	19927.1	480.13 ug/L	480.13 ppb	20:12:45
3	Ba 233.527†	42799.8	43135.2	489.11 ug/L	489.11 ppb	20:12:45
3	Be 313.107†	1249437.5	1269333.9	498.82 ug/L	498.82 ppb	20:12:40
3	Cd 226.502†	35292.0	35753.6	489.56 ug/L	489.56 ppb	20:12:45
3	Co 228.616†	16983.6	17180.3	499.33 ug/L	499.33 ppb	20:12:45
3	Cr 267.716†	36866.0	37087.6	490.44 ug/L	490.44 ppb	20:12:45
3	Cu 324.752†	142361.9	135743.3	481.63 ug/L	481.63 ppb	20:12:45
3	Mn 257.610†	316109.5	318111.6	488.24 ug/L	488.24 ppb	20:12:45
3	Mo 202.031†	5497.9	5532.1	494.50 ug/L	494.50 ppb	20:13:05
3	Ni 231.604†	16014.4	16069.3	500.66 ug/L	500.66 ppb	20:12:45
3	P 214.914†	4721.7	4537.1	2364.5 ug/L	2364.5 ppb	20:13:05
3	Pb 220.353†	3045.2	3130.0	498.81 ug/L	498.81 ppb	20:13:05
3	S 181.975 Axial†	816.3	775.3	994.24 ug/L	994.24 ppb	20:13:05
3	Sb 206.836†	1302.9	1279.0	508.84 ug/L	508.84 ppb	20:13:05
3	Se 196.026†	798.3	826.3	499.38 ug/L	499.38 ppb	20:13:05
3	Si 251.611†	70237.3	70243.0	2425.1 ug/L	2425.1 ppb	20:12:45
3	Sn 189.927†	2135.1	2145.7	493.46 ug/L	493.46 ppb	20:13:05
3	Ti 334.940†	249973.0	253022.5	483.27 ug/L	483.27 ppb	20:12:45
3	Tl 190.801†	1064.5	1103.9	499.57 ug/L	499.57 ppb	20:13:05
3	U 409.014†	13017.9	15309.9	483.20 ug/L	483.20 ppb	20:12:45
3	V 292.402†	61535.3	63611.5	493.98 ug/L	493.98 ppb	20:12:45
3	Zn 213.857†	46254.9	45854.8	484.84 ug/L	484.84 ppb	20:12:45
3	SiO2†	71409.8	71436.0	5293.5 ug/L	5293.5 ppb	20:13:21

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	785681.1	99.388 %	0.4949			0.50%
Sc Radial	4779.3	98.5 %	1.39			1.41%
Y 371.029	694439.2	98.517 %	0.4317			0.44%
Y RADIAL	5005.3	98.33 %	1.063			1.08%
Ag 328.068†	100078.8	493.49 ug/L	5.078	493.49 ppb	5.078	1.03%
QC value within limits for Ag 328.068 Recovery = 98.70%						
Al 396.153Radial†	5303.2	4915.6 ug/L	12.25	4915.6 ppb	12.25	0.25%
QC value within limits for Al 396.153Radial Recovery = 98.31%						
As 188.979†	1139.2	503.48 ug/L	4.675	503.48 ppb	4.675	0.93%
QC value within limits for As 188.979 Recovery = 100.70%						
B 249.677†	20194.1	486.57 ug/L	6.032	486.57 ppb	6.032	1.24%
QC value within limits for B 249.677 Recovery = 97.31%						
Ba 233.527†	43730.8	495.86 ug/L	5.875	495.86 ppb	5.875	1.18%
QC value within limits for Ba 233.527 Recovery = 99.17%						
Be 313.107†	1271302.4	499.61 ug/L	0.879	499.61 ppb	0.879	0.18%
QC value within limits for Be 313.107 Recovery = 99.92%						
Ca 317.933Radial†	2867.7	5050.8 ug/L	89.08	5050.8 ppb	89.08	1.76%

QC value within limits for Ca 317.933 Radial Recovery = 101.02%

Cd 226.502†	36237.3	496.19 ug/L	5.790	496.19 ppb	5.790	1.17%
QC value within limits for Cd 226.502 Recovery = 99.24%						
Co 228.616†	17397.3	505.63 ug/L	5.457	505.63 ppb	5.457	1.08%
QC value within limits for Co 228.616 Recovery = 101.13%						
Cr 267.716†	37539.7	496.42 ug/L	5.274	496.42 ppb	5.274	1.06%
QC value within limits for Cr 267.716 Recovery = 99.28%						
Cu 324.752†	137665.5	488.45 ug/L	6.448	488.45 ppb	6.448	1.32%
QC value within limits for Cu 324.752 Recovery = 97.69%						
Fe 238.204 Radial†	489.7	5183.0 ug/L	99.48	5183.0 ppb	99.48	1.92%
QC value within limits for Fe 238.204 Radial Recovery = 103.66%						
K 766.490 Radial†	26101.7	4995.0 ug/L	28.98	4995.0 ppb	28.98	0.58%
QC value within limits for K 766.490 Radial Recovery = 99.90%						
Mg 279.077 IEC†	129.5	5122.8 ug/L	42.99	5122.8 ppb	42.99	0.84%
QC value within limits for Mg 279.077 IEC Recovery = 102.46%						
Mn 257.610†	322048.7	494.28 ug/L	5.283	494.28 ppb	5.283	1.07%
QC value within limits for Mn 257.610 Recovery = 98.86%						
Mo 202.031†	5553.7	496.42 ug/L	4.470	496.42 ppb	4.470	0.90%
QC value within limits for Mo 202.031 Recovery = 99.28%						
Na 589.592 Radial†	31291.6	10588 ug/L	50.9	10588 ppb	50.9	0.48%
QC value within limits for Na 589.592 Radial Recovery = 105.88%						
Ni 231.604†	16284.2	507.35 ug/L	5.819	507.35 ppb	5.819	1.15%
QC value within limits for Ni 231.604 Recovery = 101.47%						
P 214.914†	4556.0	2373.5 ug/L	21.08	2373.5 ppb	21.08	0.89%
QC value within limits for P 214.914 Recovery = 94.94%						
Pb 220.353†	3141.8	500.67 ug/L	3.639	500.67 ppb	3.639	0.73%
QC value within limits for Pb 220.353 Recovery = 100.13%						
S 181.975 Axial†	776.1	995.20 ug/L	7.573	995.20 ppb	7.573	0.76%
QC value within limits for S 181.975 Axial Recovery = 99.52%						
Sb 206.836†	1290.7	513.43 ug/L	4.300	513.43 ppb	4.300	0.84%
QC value within limits for Sb 206.836 Recovery = 102.69%						
Se 196.026†	835.4	504.70 ug/L	6.618	504.70 ppb	6.618	1.31%
QC value within limits for Se 196.026 Recovery = 100.94%						
Si 251.611†	71105.7	2454.9 ug/L	26.58	2454.9 ppb	26.58	1.08%
QC value within limits for Si 251.611 Recovery = 98.20%						
Sn 189.927†	2155.6	495.72 ug/L	3.784	495.72 ppb	3.784	0.76%
QC value within limits for Sn 189.927 Recovery = 99.14%						
Sr 421.552†	71532.1	515.19 ug/L	0.592	515.19 ppb	0.592	0.11%
QC value within limits for Sr 421.552 Recovery = 103.04%						
Ti 334.940†	256110.9	489.16 ug/L	5.379	489.16 ppb	5.379	1.10%
QC value within limits for Ti 334.940 Recovery = 97.83%						
Tl 190.801†	1102.5	498.97 ug/L	1.590	498.97 ppb	1.590	0.32%
QC value within limits for Tl 190.801 Recovery = 99.79%						
U 409.014†	15500.1	489.21 ug/L	5.235	489.21 ppb	5.235	1.07%
QC value within limits for U 409.014 Recovery = 97.84%						
V 292.402†	64456.0	500.48 ug/L	5.941	500.48 ppb	5.941	1.19%
QC value within limits for V 292.402 Recovery = 100.10%						
Zn 213.857†	46395.1	490.56 ug/L	4.988	490.56 ppb	4.988	1.02%
QC value within limits for Zn 213.857 Recovery = 98.11%						
SiO2†	71187.1	5274.9 ug/L	59.56	5274.9 ppb	59.56	1.13%
QC value within limits for SiO2 Recovery = 98.64%						

All analyte(s) passed QC.

Sequence No.: 24

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/2/2010 20:15:30

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4779.1	4779.1	98.5 %		20:17:22
1	Y RADIAL	5014.9	5014.9	98.52 %		20:17:22
1	Al 396.153Radial†	-81.2	3.4	3.1466 ug/L	3.1466 ppb	20:17:42
1	Ca 317.933Radial†	25.8	10.9	19.118 ug/L	19.118 ppb	20:17:42
1	Fe 238.204 Radial†	6.2	-2.4	-25.780 ug/L	-25.780 ppb	20:17:42
1	K 766.490 Radial†	2122.8	-8.7	-1.6735 ug/L	-1.6735 ppb	20:17:22
1	Mg 279.077 IEC†	0.1	-3.0	-117.88 ug/L	-117.88 ppb	20:17:42
1	Na 589.592 Radial†	-325.3	34.2	11.586 ug/L	11.586 ppb	20:17:22
1	Sr 421.552†	-5.9	-26.3	-0.1896 ug/L	-0.1896 ppb	20:17:22
1	Sc 361.383	789436.4	789436.4	99.863 %		20:18:39
1	Y 371.029	705978.3	705978.3	100.15 %		20:18:39
1	Ag 328.068†	142.8	-65.1	-0.3257 ug/L	-0.3257 ppb	20:18:39
1	As 188.979†	-35.8	-7.5	-3.3030 ug/L	-3.3030 ppb	20:18:59
1	B 249.677†	-302.5	182.2	4.4154 ug/L	4.4154 ppb	20:18:59
1	Ba 233.527†	-17.5	-11.9	-0.1358 ug/L	-0.1358 ppb	20:18:59
1	Be 313.107†	-10106.1	152.4	0.0596 ug/L	0.0596 ppb	20:18:39
1	Cd 226.502†	-176.7	12.9	0.1789 ug/L	0.1789 ppb	20:18:59
1	Co 228.616†	-61.0	4.7	0.1387 ug/L	0.1387 ppb	20:18:59
1	Cr 267.716†	60.4	-1.9	-0.0253 ug/L	-0.0253 ppb	20:18:59
1	Cu 324.752†	7792.6	88.0	0.3126 ug/L	0.3126 ppb	20:18:39
1	Mn 257.610†	433.1	0.8	0.0035 ug/L	0.0035 ppb	20:18:59
1	Mo 202.031†	10.2	2.1	0.1822 ug/L	0.1822 ppb	20:18:59
1	Ni 231.604†	95.8	27.4	0.8557 ug/L	0.8557 ppb	20:18:59
1	P 214.914†	215.3	-5.4	-2.9396 ug/L	-2.9396 ppb	20:18:59
1	Pb 220.353†	-59.4	1.8	0.2939 ug/L	0.2939 ppb	20:18:59
1	S 181.975 Axial†	45.7	-1.5	-1.9107 ug/L	-1.9107 ppb	20:18:59
1	Sb 206.836†	35.6	1.6	0.6461 ug/L	0.6461 ppb	20:18:59
1	Se 196.026†	-17.9	4.0	2.2684 ug/L	2.2684 ppb	20:18:59
1	Si 251.611†	513.2	-21.5	-0.7449 ug/L	-0.7449 ppb	20:18:59
1	Sn 189.927†	12.6	6.8	1.5743 ug/L	1.5743 ppb	20:18:59
1	Ti 334.940†	-1150.2	-27.8	-0.0395 ug/L	-0.0395 ppb	20:18:39
1	Tl 190.801†	-32.1	-0.9	-0.4254 ug/L	-0.4254 ppb	20:18:59
1	U 409.014†	-2289.4	-100.8	-3.1904 ug/L	-3.1904 ppb	20:18:39
1	V 292.402†	-1640.7	-40.7	-0.3139 ug/L	-0.3139 ppb	20:18:39
1	Zn 213.857†	784.8	29.5	0.3124 ug/L	0.3124 ppb	20:18:59
1	SiO2†	594.5	71.5	5.3047 ug/L	5.3047 ppb	20:19:55
2	Sc Radial	4844.0	4844.0	99.8 %		20:17:47
2	Y RADIAL	5111.9	5111.9	100.4 %		20:17:47
2	Al 396.153Radial†	-88.8	-3.1	-2.8978 ug/L	-2.8978 ppb	20:18:07
2	Ca 317.933Radial†	23.5	8.1	14.306 ug/L	14.306 ppb	20:18:07
2	Fe 238.204 Radial†	8.0	-0.7	-7.3253 ug/L	-7.3253 ppb	20:18:07
2	K 766.490 Radial†	2137.9	-22.4	-4.2955 ug/L	-4.2955 ppb	20:17:47
2	Mg 279.077 IEC†	1.9	-1.1	-44.141 ug/L	-44.141 ppb	20:18:07
2	Na 589.592 Radial†	-395.2	-31.4	-10.631 ug/L	-10.631 ppb	20:17:47
2	Sr 421.552†	15.6	-4.7	-0.0339 ug/L	-0.0339 ppb	20:17:47
2	Sc 361.383	778385.5	778385.5	98.465 %		20:19:04
2	Y 371.029	695937.2	695937.2	98.730 %		20:19:04
2	Ag 328.068†	89.1	-117.5	-0.5806 ug/L	-0.5806 ppb	20:19:04
2	As 188.979†	-28.2	-0.3	-0.1403 ug/L	-0.1403 ppb	20:19:24
2	B 249.677†	-291.9	188.7	4.5678 ug/L	4.5678 ppb	20:19:24
2	Ba 233.527†	-12.8	-7.3	-0.0831 ug/L	-0.0831 ppb	20:19:24
2	Be 313.107†	-10093.3	21.7	0.0078 ug/L	0.0078 ppb	20:19:04
2	Cd 226.502†	-181.5	5.5	0.0772 ug/L	0.0772 ppb	20:19:24
2	Co 228.616†	-45.1	20.0	0.5824 ug/L	0.5824 ppb	20:19:24
2	Cr 267.716†	45.1	-16.6	-0.2207 ug/L	-0.2207 ppb	20:19:24
2	Cu 324.752†	7644.0	47.9	0.1681 ug/L	0.1681 ppb	20:19:04
2	Mn 257.610†	414.9	-11.5	-0.0166 ug/L	-0.0166 ppb	20:19:24
2	Mo 202.031†	7.4	-0.6	-0.0524 ug/L	-0.0524 ppb	20:19:24
2	Ni 231.604†	74.2	6.9	0.2150 ug/L	0.2150 ppb	20:19:24

2	P 214.914†	204.9	-12.9	-6.9978 ug/L	-6.9978 ppb	20:19:24
2	Pb 220.353†	-51.5	9.0	1.4295 ug/L	1.4295 ppb	20:19:24
2	S 181.975 Axial†	46.5	-0.1	-0.0879 ug/L	-0.0879 ppb	20:19:24
2	Sb 206.836†	35.8	2.4	0.9022 ug/L	0.9022 ppb	20:19:24
2	Se 196.026†	-14.3	7.3	4.2817 ug/L	4.2817 ppb	20:19:24
2	Si 251.611†	533.5	6.5	0.2245 ug/L	0.2245 ppb	20:19:24
2	Sn 189.927†	4.2	-1.5	-0.3339 ug/L	-0.3339 ppb	20:19:24
2	Ti 334.940†	-1260.5	-156.2	-0.2940 ug/L	-0.2940 ppb	20:19:04
2	Tl 190.801†	-26.1	4.7	2.1293 ug/L	2.1293 ppb	20:19:24
2	U 409.014†	-2068.2	91.3	2.8929 ug/L	2.8929 ppb	20:19:04
2	V 292.402†	-1578.2	-0.5	0.0014 ug/L	0.0014 ppb	20:19:04
2	Zn 213.857†	792.9	48.8	0.5205 ug/L	0.5205 ppb	20:19:24
2	SiO2†	541.1	25.7	1.9078 ug/L	1.9078 ppb	20:20:00
3	Sc Radial	4815.8	4815.8	99.2 %		20:18:12
3	Y RADIAL	5093.8	5093.8	100.1 %		20:18:12
3	Al 396.153Radial†	-80.0	5.2	4.7932 ug/L	4.7932 ppb	20:18:32
3	Ca 317.933Radial†	22.4	7.2	12.710 ug/L	12.710 ppb	20:18:32
3	Fe 238.204 Radial†	5.8	-2.9	-30.455 ug/L	-30.455 ppb	20:18:32
3	K 766.490 Radial†	2096.1	-52.0	-9.9661 ug/L	-9.9661 ppb	20:18:12
3	Mg 279.077 IEC†	3.2	0.2	8.1749 ug/L	8.1749 ppb	20:18:32
3	Na 589.592 Radial†	-375.0	-13.3	-4.5090 ug/L	-4.5090 ppb	20:18:12
3	Sr 421.552†	30.1	10.1	0.0723 ug/L	0.0723 ppb	20:18:12
3	Sc 361.383	778049.0	778049.0	98.423 %		20:19:30
3	Y 371.029	695203.7	695203.7	98.626 %		20:19:30
3	Ag 328.068†	150.1	-55.5	-0.2811 ug/L	-0.2811 ppb	20:19:30
3	As 188.979†	-30.0	-2.2	-0.9572 ug/L	-0.9572 ppb	20:19:50
3	B 249.677†	-310.1	170.1	4.1210 ug/L	4.1210 ppb	20:19:50
3	Ba 233.527†	-0.3	5.4	0.0602 ug/L	0.0602 ppb	20:19:50
3	Be 313.107†	-9917.8	195.6	0.0762 ug/L	0.0762 ppb	20:19:30
3	Cd 226.502†	-193.4	-6.7	-0.0884 ug/L	-0.0884 ppb	20:19:50
3	Co 228.616†	-55.2	9.8	0.2880 ug/L	0.2880 ppb	20:19:50
3	Cr 267.716†	50.1	-11.5	-0.1526 ug/L	-0.1526 ppb	20:19:50
3	Cu 324.752†	7567.3	-26.6	-0.0961 ug/L	-0.0961 ppb	20:19:30
3	Mn 257.610†	436.6	10.7	0.0130 ug/L	0.0130 ppb	20:19:50
3	Mo 202.031†	25.2	17.5	1.5615 ug/L	1.5615 ppb	20:19:50
3	Ni 231.604†	66.2	-1.2	-0.0374 ug/L	-0.0374 ppb	20:19:50
3	P 214.914†	214.3	-3.3	-1.7296 ug/L	-1.7296 ppb	20:19:50
3	Pb 220.353†	-60.9	-0.6	-0.0830 ug/L	-0.0830 ppb	20:19:50
3	S 181.975 Axial†	49.1	2.6	3.3148 ug/L	3.3148 ppb	20:19:50
3	Sb 206.836†	38.6	5.3	2.0634 ug/L	2.0634 ppb	20:19:50
3	Se 196.026†	-21.8	-0.3	-0.2638 ug/L	-0.2638 ppb	20:19:50
3	Si 251.611†	537.2	10.5	0.3456 ug/L	0.3456 ppb	20:19:50
3	Sn 189.927†	7.6	1.9	0.4483 ug/L	0.4483 ppb	20:19:50
3	Ti 334.940†	-1213.9	-109.4	-0.2078 ug/L	-0.2078 ppb	20:19:30
3	Tl 190.801†	-31.9	-1.1	-0.5192 ug/L	-0.5192 ppb	20:19:50
3	U 409.014†	-2160.7	-3.6	-0.1097 ug/L	-0.1097 ppb	20:19:30
3	V 292.402†	-1563.3	13.9	0.1333 ug/L	0.1333 ppb	20:19:30
3	Zn 213.857†	771.5	27.5	0.2980 ug/L	0.2980 ppb	20:19:50
3	SiO2†	502.9	-12.8	-0.9967 ug/L	-0.9967 ppb	20:20:05

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	781957.0	98.917 %	0.8197			0.83%
Sc Radial	4813.0	99.2 %	0.67			0.68%
Y 371.029	699039.7	99.170 %	0.8541			0.86%
Y RADIAL	5073.6	99.67 %	1.013			1.02%
Ag 328.068†	-79.4	-0.3958 ug/L	0.16159	-0.3958 ppb	0.16159	40.83%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	1.8	1.6807 ug/L	4.04966	1.6807 ppb	4.04966	240.96%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.3	-1.4668 ug/L	1.64175	-1.4668 ppb	1.64175	111.92%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	180.3	4.3681 ug/L	0.22717	4.3681 ppb	0.22717	5.20%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-4.6	-0.0529 ug/L	0.10140	-0.0529 ppb	0.10140	191.67%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	123.2	0.0479 ug/L	0.03566	0.0479 ppb	0.03566	74.47%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	8.7	15.378 ug/L	3.3359	15.378 ppb	3.3359	21.69%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	3.9	0.0559 ug/L	0.13487	0.0559 ppb	0.13487	241.27%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	11.5	0.3364 ug/L	0.22575	0.3364 ppb	0.22575	67.12%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-10.0	-0.1329 ug/L	0.09917	-0.1329 ppb	0.09917	74.65%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	36.4	0.1282 ug/L	0.20722	0.1282 ppb	0.20722	161.64%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-2.0	-21.187 ug/L	12.2301	-21.187 ppb	12.2301	57.72%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-27.7	-5.3117 ug/L	4.23867	-5.3117 ppb	4.23867	79.80%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.3	-51.280 ug/L	63.3278	-51.280 ppb	63.3278	123.49%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-0.0	0.0000 ug/L	0.01511	0.0000 ppb	0.01511	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	6.3	0.5638 ug/L	0.87198	0.5638 ppb	0.87198	154.67%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-3.5	-1.1848 ug/L	11.47549	-1.1848 ppb	11.47549	968.54%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	11.1	0.3444 ug/L	0.46038	0.3444 ppb	0.46038	133.67%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-7.2	-3.8890 ug/L	2.75945	-3.8890 ppb	2.75945	70.96%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3.4	0.5468 ug/L	0.78730	0.5468 ppb	0.78730	143.98%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	0.3	0.4387 ug/L	2.65229	0.4387 ppb	2.65229	604.52%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	3.1	1.2039 ug/L	0.75526	1.2039 ppb	0.75526	62.73%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	3.6	2.0954 ug/L	2.27768	2.0954 ppb	2.27768	108.70%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-1.5	-0.0583 ug/L	0.59776	-0.0583 ppb	0.59776	>999.9%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	2.4	0.5629 ug/L	0.95922	0.5629 ppb	0.95922	170.40%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-7.0	-0.0504 ug/L	0.13171	-0.0504 ppb	0.13171	261.34%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-97.8	-0.1804 ug/L	0.12947	-0.1804 ppb	0.12947	71.75%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	0.9	0.3949 ug/L	1.50278	0.3949 ppb	1.50278	380.55%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-4.4	-0.1357 ug/L	3.04174	-0.1357 ppb	3.04174	>999.9%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-9.1	-0.0597 ug/L	0.22981	-0.0597 ppb	0.22981	384.73%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	35.2	0.3770 ug/L	0.12453	0.3770 ppb	0.12453	33.03%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	28.1	2.0719 ug/L	3.15389	2.0719 ppb	3.15389	152.22%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 25

Sample ID: 1202036249|950257|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 54

Date Collected: 3/2/2010 20:22:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202036249|950257|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4807.5	4807.5	99.1 %		20:24:08
1	Y RADIAL	5046.4	5046.4	99.14 %		20:24:08
1	Al 396.153Radial†	-68.1	17.1	15.901 ug/L	15.901 ppb	20:24:28
1	Ca 317.933Radial†	34.2	19.1	33.668 ug/L	33.668 ppb	20:24:28
1	Fe 238.204 Radial†	13.3	4.7	49.308 ug/L	49.308 ppb	20:24:28
1	K 766.490 Radial†	2207.3	63.9	12.230 ug/L	12.230 ppb	20:24:08
1	Mg 279.077 IEC†	2.2	-0.8	-30.959 ug/L	-30.959 ppb	20:24:28
1	Na 589.592 Radial†	-352.8	8.4	2.8561 ug/L	2.8561 ppb	20:24:08
1	Sr 421.552†	79.7	60.1	0.4329 ug/L	0.4329 ppb	20:24:08
1	Sc 361.383	781364.2	781364.2	98.842 %		20:25:25
1	Y 371.029	698050.0	698050.0	99.030 %		20:25:25
1	Ag 328.068†	109.0	-97.7	-0.4681 ug/L	-0.4681 ppb	20:25:25
1	As 188.979†	-24.7	3.3	1.4599 ug/L	1.4599 ppb	20:25:45
1	B 249.677†	-288.7	193.1	4.6659 ug/L	4.6659 ppb	20:25:45
1	Ba 233.527†	6.2	12.0	0.1361 ug/L	0.1361 ppb	20:25:45
1	Be 313.107†	-9678.5	480.4	0.1895 ug/L	0.1895 ppb	20:25:25
1	Cd 226.502†	-177.1	10.6	0.1411 ug/L	0.1411 ppb	20:25:45
1	Co 228.616†	-68.1	-3.0	-0.0876 ug/L	-0.0876 ppb	20:25:45
1	Cr 267.716†	90.4	29.0	0.3830 ug/L	0.3830 ppb	20:25:45
1	Cu 324.752†	7658.5	33.0	0.1182 ug/L	0.1182 ppb	20:25:25
1	Mn 257.610†	830.4	407.3	0.6308 ug/L	0.6308 ppb	20:25:45
1	Mo 202.031†	16.0	8.1	0.7264 ug/L	0.7264 ppb	20:25:45
1	Ni 231.604†	74.9	7.3	0.2267 ug/L	0.2267 ppb	20:25:45
1	P 214.914†	216.3	-2.1	-1.1937 ug/L	-1.1937 ppb	20:25:45
1	Pb 220.353†	-51.7	9.1	1.4403 ug/L	1.4403 ppb	20:25:45
1	S 181.975 Axial†	43.4	-3.3	-4.2395 ug/L	-4.2395 ppb	20:25:45
1	Sb 206.836†	38.8	5.2	2.0588 ug/L	2.0588 ppb	20:25:45
1	Se 196.026†	-24.2	-2.6	-1.4293 ug/L	-1.4293 ppb	20:25:45
1	Si 251.611†	1196.5	675.2	23.359 ug/L	23.359 ppb	20:25:45
1	Sn 189.927†	14.8	9.2	2.1188 ug/L	2.1188 ppb	20:25:45
1	Ti 334.940†	-843.7	270.4	0.5224 ug/L	0.5224 ppb	20:25:25
1	Tl 190.801†	-33.6	-2.8	-1.2435 ug/L	-1.2435 ppb	20:25:45
1	U 409.014†	-2092.5	74.7	2.3606 ug/L	2.3606 ppb	20:25:25
1	V 292.402†	-1647.0	-64.0	-0.4845 ug/L	-0.4845 ppb	20:25:25
1	Zn 213.857†	765.0	17.6	0.1784 ug/L	0.1784 ppb	20:25:45
1	SiO2†	1253.3	744.2	55.265 ug/L	55.265 ppb	20:26:41
2	Sc Radial	4877.1	4877.1	100 %		20:24:33
2	Y RADIAL	5146.6	5146.6	101.1 %		20:24:33
2	Al 396.153Radial†	-63.9	22.2	20.639 ug/L	20.639 ppb	20:24:53
2	Ca 317.933Radial†	34.8	19.2	33.850 ug/L	33.850 ppb	20:24:53
2	Fe 238.204 Radial†	11.9	3.1	33.053 ug/L	33.053 ppb	20:24:53
2	K 766.490 Radial†	2151.2	-23.8	-4.5690 ug/L	-4.5690 ppb	20:24:33
2	Mg 279.077 IEC†	2.4	-0.6	-23.801 ug/L	-23.801 ppb	20:24:53
2	Na 589.592 Radial†	-343.2	23.1	7.8202 ug/L	7.8202 ppb	20:24:33
2	Sr 421.552†	60.8	40.2	0.2896 ug/L	0.2896 ppb	20:24:33
2	Sc 361.383	774843.7	774843.7	98.017 %		20:25:50
2	Y 371.029	691871.7	691871.7	98.153 %		20:25:50
2	Ag 328.068†	99.5	-106.6	-0.5165 ug/L	-0.5165 ppb	20:25:50
2	As 188.979†	-29.6	-1.9	-0.8309 ug/L	-0.8309 ppb	20:26:11
2	B 249.677†	-328.0	150.5	3.6379 ug/L	3.6379 ppb	20:26:11
2	Ba 233.527†	9.5	15.4	0.1739 ug/L	0.1739 ppb	20:26:11
2	Be 313.107†	-9766.0	308.7	0.1221 ug/L	0.1221 ppb	20:25:50
2	Cd 226.502†	-175.1	11.1	0.1499 ug/L	0.1499 ppb	20:26:11
2	Co 228.616†	-56.0	8.7	0.2561 ug/L	0.2561 ppb	20:26:11
2	Cr 267.716†	100.3	39.9	0.5261 ug/L	0.5261 ppb	20:26:11
2	Cu 324.752†	7608.9	47.6	0.1698 ug/L	0.1698 ppb	20:25:50
2	Mn 257.610†	829.5	413.4	0.6384 ug/L	0.6384 ppb	20:26:11
2	Mo 202.031†	26.6	19.0	1.6971 ug/L	1.6971 ppb	20:26:11
2	Ni 231.604†	89.9	23.2	0.7243 ug/L	0.7243 ppb	20:26:11

2	P 214.914†	205.5	-11.3	-6.1276 ug/L	-6.1276 ppb	20:26:11
2	Pb 220.353†	-59.7	0.4	0.0750 ug/L	0.0750 ppb	20:26:11
2	S 181.975 Axial†	48.8	2.5	3.2302 ug/L	3.2302 ppb	20:26:11
2	Sb 206.836†	43.8	10.7	4.2004 ug/L	4.2004 ppb	20:26:11
2	Se 196.026†	-11.4	10.2	6.0607 ug/L	6.0607 ppb	20:26:11
2	Si 251.611†	1201.2	690.2	23.868 ug/L	23.868 ppb	20:26:11
2	Sn 189.927†	20.7	15.3	3.5263 ug/L	3.5263 ppb	20:26:11
2	Ti 334.940†	-858.8	247.8	0.4789 ug/L	0.4789 ppb	20:25:50
2	Tl 190.801†	-34.5	-3.9	-1.7519 ug/L	-1.7519 ppb	20:26:11
2	U 409.014†	-2097.5	51.8	1.6357 ug/L	1.6357 ppb	20:25:50
2	V 292.402†	-1658.1	-89.4	-0.6642 ug/L	-0.6642 ppb	20:25:50
2	Zn 213.857†	770.1	29.2	0.3022 ug/L	0.3022 ppb	20:26:11
2	SiO2†	1240.5	741.7	55.056 ug/L	55.056 ppb	20:26:46
3	Sc Radial	4883.8	4883.8	101 %		20:24:58
3	Y RADIAL	5153.2	5153.2	101.2 %		20:24:58
3	Al 396.153Radial†	-66.5	19.7	18.340 ug/L	18.340 ppb	20:25:18
3	Ca 317.933Radial†	32.6	17.0	30.020 ug/L	30.020 ppb	20:25:18
3	Fe 238.204 Radial†	10.6	1.8	18.458 ug/L	18.458 ppb	20:25:18
3	K 766.490 Radial†	2218.1	39.8	7.6109 ug/L	7.6109 ppb	20:24:58
3	Mg 279.077 IEC†	1.0	-2.0	-80.216 ug/L	-80.216 ppb	20:25:18
3	Na 589.592 Radial†	-344.8	22.0	7.4427 ug/L	7.4427 ppb	20:24:58
3	Sr 421.552†	69.3	48.5	0.3493 ug/L	0.3493 ppb	20:24:58
3	Sc 361.383	769670.5	769670.5	97.363 %		20:26:16
3	Y 371.029	687684.7	687684.7	97.559 %		20:26:16
3	Ag 328.068†	118.9	-85.9	-0.4136 ug/L	-0.4136 ppb	20:26:16
3	As 188.979†	-26.7	0.9	0.3823 ug/L	0.3823 ppb	20:26:36
3	B 249.677†	-354.5	121.0	2.9269 ug/L	2.9269 ppb	20:26:36
3	Ba 233.527†	8.6	14.5	0.1640 ug/L	0.1640 ppb	20:26:36
3	Be 313.107†	-9840.6	165.1	0.0662 ug/L	0.0662 ppb	20:26:16
3	Cd 226.502†	-176.3	8.8	0.1177 ug/L	0.1177 ppb	20:26:36
3	Co 228.616†	-74.4	-10.6	-0.3079 ug/L	-0.3079 ppb	20:26:36
3	Cr 267.716†	94.1	34.3	0.4541 ug/L	0.4541 ppb	20:26:36
3	Cu 324.752†	7591.7	82.1	0.2942 ug/L	0.2942 ppb	20:26:16
3	Mn 257.610†	801.3	390.1	0.6034 ug/L	0.6034 ppb	20:26:36
3	Mo 202.031†	15.7	8.0	0.7155 ug/L	0.7155 ppb	20:26:36
3	Ni 231.604†	76.0	9.6	0.2985 ug/L	0.2985 ppb	20:26:36
3	P 214.914†	218.6	3.6	1.8995 ug/L	1.8995 ppb	20:26:36
3	Pb 220.353†	-49.5	10.5	1.6753 ug/L	1.6753 ppb	20:26:36
3	S 181.975 Axial†	49.2	3.2	4.1397 ug/L	4.1397 ppb	20:26:36
3	Sb 206.836†	39.8	6.9	2.7106 ug/L	2.7106 ppb	20:26:36
3	Se 196.026†	-16.8	4.6	2.7251 ug/L	2.7251 ppb	20:26:36
3	Si 251.611†	1193.0	690.0	23.874 ug/L	23.874 ppb	20:26:36
3	Sn 189.927†	16.5	11.2	2.5661 ug/L	2.5661 ppb	20:26:36
3	Ti 334.940†	-776.4	326.6	0.6359 ug/L	0.6359 ppb	20:26:16
3	Tl 190.801†	-29.0	1.5	0.6879 ug/L	0.6879 ppb	20:26:36
3	U 409.014†	-2244.4	-113.5	-3.5967 ug/L	-3.5967 ppb	20:26:16
3	V 292.402†	-1592.6	-33.5	-0.2584 ug/L	-0.2584 ppb	20:26:16
3	Zn 213.857†	742.0	5.6	0.0551 ug/L	0.0551 ppb	20:26:36
3	SiO2†	1238.4	748.1	55.559 ug/L	55.559 ppb	20:26:51

Mean Data: 1202036249|950257|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	775292.8	98.074 %		0.7413			0.76%
Sc Radial	4856.1	100 %		0.9			0.87%
Y 371.029	692535.5	98.247 %		0.7398			0.75%
Y RADIAL	5115.4	100.5 %		1.18			1.17%
Ag 328.068†	-96.7	-0.4661 ug/L		0.05147	-0.4661 ppb	0.05147	11.04%
Al 396.153Radial†	19.7	18.293 ug/L		2.3691	18.293 ppb	2.3691	12.95%
As 188.979†	0.7	0.3371 ug/L		1.14607	0.3371 ppb	1.14607	339.95%
B 249.677†	154.9	3.7436 ug/L		0.87429	3.7436 ppb	0.87429	23.35%
Ba 233.527†	14.0	0.1580 ug/L		0.01961	0.1580 ppb	0.01961	12.41%
Be 313.107†	318.1	0.1259 ug/L		0.06177	0.1259 ppb	0.06177	49.04%
Ca 317.933Radial†	18.5	32.512 ug/L		2.1602	32.512 ppb	2.1602	6.64%
Cd 226.502†	10.2	0.1362 ug/L		0.01665	0.1362 ppb	0.01665	12.22%
Co 228.616†	-1.6	-0.0465 ug/L		0.28426	-0.0465 ppb	0.28426	611.77%
Cr 267.716†	34.4	0.4544 ug/L		0.07157	0.4544 ppb	0.07157	15.75%
Cu 324.752†	54.2	0.1941 ug/L		0.09044	0.1941 ppb	0.09044	46.60%
Fe 238.204 Radial†	3.2	33.606 ug/L		15.4323	33.606 ppb	15.4323	45.92%
K 766.490 Radial†	26.6	5.0908 ug/L		8.67860	5.0908 ppb	8.67860	170.48%

Mg 279.077 IEC†	-1.1	-44.992 ug/L	30.7142	-44.992 ppb	30.7142	68.27%
Mn 257.610†	403.6	0.6242 ug/L	0.01837	0.6242 ppb	0.01837	2.94%
Mo 202.031†	11.7	1.0463 ug/L	0.56356	1.0463 ppb	0.56356	53.86%
Na 589.592 Radial†	17.8	6.0397 ug/L	2.76352	6.0397 ppb	2.76352	45.76%
Ni 231.604†	13.4	0.4165 ug/L	0.26895	0.4165 ppb	0.26895	64.58%
P 214.914†	-3.3	-1.8073 ug/L	4.04857	-1.8073 ppb	4.04857	224.02%
Pb 220.353†	6.7	1.0635 ug/L	0.86413	1.0635 ppb	0.86413	81.25%
S 181.975 Axial†	0.8	1.0434 ug/L	4.59773	1.0434 ppb	4.59773	440.64%
Sb 206.836†	7.6	2.9899 ug/L	1.09776	2.9899 ppb	1.09776	36.72%
Se 196.026†	4.0	2.4521 ug/L	3.75245	2.4521 ppb	3.75245	153.03%
Si 251.611†	685.1	23.700 ug/L	0.2953	23.700 ppb	0.2953	1.25%
Sn 189.927†	11.9	2.7371 ug/L	0.71918	2.7371 ppb	0.71918	26.28%
Sr 421.552†	49.6	0.3573 ug/L	0.07196	0.3573 ppb	0.07196	20.14%
Ti 334.940†	281.6	0.5458 ug/L	0.08104	0.5458 ppb	0.08104	14.85%
Tl 190.801†	-1.7	-0.7692 ug/L	1.28724	-0.7692 ppb	1.28724	167.36%
U 409.014†	4.4	0.1332 ug/L	3.25050	0.1332 ppb	3.25050	>999.9%
V 292.402†	-62.3	-0.4690 ug/L	0.20335	-0.4690 ppb	0.20335	43.36%
Zn 213.857†	17.5	0.1786 ug/L	0.12357	0.1786 ppb	0.12357	69.19%
SiO2†	744.7	55.293 ug/L	0.2529	55.293 ppb	0.2529	0.46%

Sequence No.: 26

Sample ID: 1202036254|950257|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 55

Date Collected: 3/2/2010 20:29:02

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202036254|950257|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4917.7	4917.7	101 %			20:31:15
1	Y RADIAL	5598.0	5598.0	110.0 %			20:31:15
1	Al 396.153Radial†	104092.2	102817.3	95744 ug/L		95744 ppb	20:30:55
1	Ca 317.933Radial†	56030.7	55282.8	97367 ug/L		97367 ppb	20:30:55
1	Fe 238.204 Radial†	17834.0	17592.1	185670 ug/L		185670 ppb	20:30:55
1	K 766.490 Radial†	227062.6	221929.9	42486 ug/L		42486 ppb	20:30:55
1	Mg 279.077 IEC†	988.5	972.5	38298 ug/L		38298 ppb	20:31:15
1	Na 589.592 Radial†	32089.4	32034.5	10839 ug/L		10839 ppb	20:30:55
1	Sr 421.552†	339939.8	335475.7	2415.6 ug/L		2415.6 ppb	20:30:55
1	Sc 361.383	798610.5	798610.5	101.02 %			20:32:16
1	Y 371.029	766218.0	766218.0	108.70 %			20:32:16
1	Ag 328.068†	51093.8	50368.0	307.72 ug/L		307.72 ppb	20:32:16
1	As 188.979†	2327.0	2331.8	1113.8 ug/L		1113.8 ppb	20:32:21
1	B 249.677†	62840.9	62689.2	1484.7 ug/L		1484.7 ppb	20:32:16
1	Ba 233.527†	172062.1	170324.2	1934.8 ug/L		1934.8 ppb	20:32:16
1	Be 313.107†	2034558.8	2024213.6	806.73 ug/L		806.73 ppb	20:32:16
1	Cd 226.502†	45370.6	45100.6	599.37 ug/L		599.37 ppb	20:32:21
1	Co 228.616†	33509.6	33235.9	952.17 ug/L		952.17 ppb	20:32:21
1	Cr 267.716†	182007.8	180101.0	2384.1 ug/L		2384.1 ppb	20:32:16
1	Cu 324.752†	557212.1	543850.3	1939.5 ug/L		1939.5 ppb	20:32:16
1	Mn 257.610†	3584294.8	3547539.8	5458.2 ug/L		5458.2 ppb	20:32:16
1	Mo 202.031†	5614.4	5549.4	511.15 ug/L		511.15 ppb	20:32:21
1	Ni 231.604†	44872.6	44349.3	1382.0 ug/L		1382.0 ppb	20:32:21
1	P 214.914†	14748.2	14377.8	7291.3 ug/L		7291.3 ppb	20:32:21
1	Pb 220.353†	5154.3	5163.4	829.79 ug/L		829.79 ppb	20:32:21
1	S 181.975 Axial†	3396.3	3314.6	4236.4 ug/L		4236.4 ppb	20:32:21
1	Sb 206.836†	3398.2	3329.8	1285.2 ug/L		1285.2 ppb	20:32:21
1	Se 196.026†	4459.8	4436.5	3034.7 ug/L		3034.7 ppb	20:32:21
1	Si 251.611†	1184227.9	1171692.0	40547 ug/L		40547 ppb	20:32:16
1	Sn 189.927†	4393.4	4343.1	1004.2 ug/L		1004.2 ppb	20:32:21
1	Ti 334.940†	3026974.9	2997424.5	5735.6 ug/L		5735.6 ppb	20:32:16
1	Tl 190.801†	2699.4	2703.3	1282.4 ug/L		1282.4 ppb	20:32:21
1	U 409.014†	-6890.6	-4629.1	-173.10 ug/L		-173.10 ppb	20:32:16
1	V 292.402†	163434.9	163381.0	1225.4 ug/L		1225.4 ppb	20:32:16
1	Zn 213.857†	564814.9	558334.8	5920.5 ug/L		5920.5 ppb	20:32:16
1	SiO2†	1191742.9	1179142.4	87584 ug/L		87584 ppb	20:32:56
2	Sc Radial	4938.8	4938.8	102 %			20:31:40
2	Y RADIAL	5632.0	5632.0	110.6 %			20:31:40
2	Al 396.153Radial†	102650.2	100962.4	94016 ug/L		94016 ppb	20:31:20
2	Ca 317.933Radial†	55425.4	54452.4	95905 ug/L		95905 ppb	20:31:20
2	Fe 238.204 Radial†	17620.2	17307.1	182660 ug/L		182660 ppb	20:31:20
2	K 766.490 Radial†	224409.2	218367.4	41804 ug/L		41804 ppb	20:31:20
2	Mg 279.077 IEC†	998.0	977.7	38505 ug/L		38505 ppb	20:31:40
2	Na 589.592 Radial†	31464.8	31285.8	10586 ug/L		10586 ppb	20:31:20
2	Sr 421.552†	334390.9	328593.1	2366.0 ug/L		2366.0 ppb	20:31:20
2	Sc 361.383	797500.1	797500.1	100.88 %			20:32:31
2	Y 371.029	764073.0	764073.0	108.40 %			20:32:31
2	Ag 328.068†	50939.0	50285.0	306.41 ug/L		306.41 ppb	20:32:31
2	As 188.979†	2351.7	2359.4	1125.2 ug/L		1125.2 ppb	20:32:36
2	B 249.677†	62921.6	62855.8	1489.1 ug/L		1489.1 ppb	20:32:31
2	Ba 233.527†	172325.5	170822.4	1940.4 ug/L		1940.4 ppb	20:32:31
2	Be 313.107†	2030754.2	2023246.3	806.35 ug/L		806.35 ppb	20:32:31
2	Cd 226.502†	45958.3	45745.7	608.52 ug/L		608.52 ppb	20:32:36
2	Co 228.616†	33927.8	33696.6	965.62 ug/L		965.62 ppb	20:32:36
2	Cr 267.716†	182055.8	180399.4	2388.0 ug/L		2388.0 ppb	20:32:31
2	Cu 324.752†	555110.1	542534.6	1934.7 ug/L		1934.7 ppb	20:32:31
2	Mn 257.610†	3584471.9	3552655.3	5465.7 ug/L		5465.7 ppb	20:32:31
2	Mo 202.031†	5699.5	5641.4	519.12 ug/L		519.12 ppb	20:32:36
2	Ni 231.604†	45295.3	44830.2	1397.0 ug/L		1397.0 ppb	20:32:36

2	P 214.914†	14890.9	14539.5	7382.0 ug/L	7382.0 ppb	20:32:36
2	Pb 220.353†	5253.2	5268.5	846.30 ug/L	846.30 ppb	20:32:36
2	S 181.975 Axial†	3451.5	3374.0	4312.9 ug/L	4312.9 ppb	20:32:36
2	Sb 206.836†	3463.4	3399.1	1312.3 ug/L	1312.3 ppb	20:32:36
2	Se 196.026†	4573.8	4555.7	3097.9 ug/L	3097.9 ppb	20:32:36
2	Si 251.611†	1182918.1	1172025.8	40559 ug/L	40559 ppb	20:32:31
2	Sn 189.927†	4436.0	4391.4	1015.2 ug/L	1015.2 ppb	20:32:36
2	Ti 334.940†	3023050.9	2997706.7	5736.0 ug/L	5736.0 ppb	20:32:31
2	Tl 190.801†	2704.3	2711.8	1286.2 ug/L	1286.2 ppb	20:32:36
2	U 409.014†	-6994.0	-4741.0	-176.31 ug/L	-176.31 ppb	20:32:31
2	V 292.402†	163083.5	163257.9	1225.0 ug/L	1225.0 ppb	20:32:31
2	Zn 213.857†	564463.7	558765.1	5925.5 ug/L	5925.5 ppb	20:32:31
2	SiO2†	1194268.3	1183288.1	87892 ug/L	87892 ppb	20:33:02
3	Sc Radial	4919.0	4919.0	101 %		20:32:05
3	Y RADIAL	5618.2	5618.2	110.4 %		20:32:05
3	Al 396.153Radial†	102863.8	101579.0	94591 ug/L	94591 ppb	20:31:45
3	Ca 317.933Radial†	55612.2	54855.8	96615 ug/L	96615 ppb	20:31:45
3	Fe 238.204 Radial†	17676.7	17432.4	183980 ug/L	183980 ppb	20:31:45
3	K 766.490 Radial†	224792.6	219632.8	42047 ug/L	42047 ppb	20:31:45
3	Mg 279.077 IEC†	989.0	972.8	38311 ug/L	38311 ppb	20:32:05
3	Na 589.592 Radial†	31471.6	31416.8	10630 ug/L	10630 ppb	20:31:45
3	Sr 421.552†	335139.2	330653.2	2380.9 ug/L	2380.9 ppb	20:31:45
3	Sc 361.383	808068.9	808068.9	102.22 %		20:32:45
3	Y 371.029	774332.4	774332.4	109.85 %		20:32:45
3	Ag 328.068†	51698.0	50367.1	307.20 ug/L	307.20 ppb	20:32:45
3	As 188.979†	2314.8	2292.9	1096.4 ug/L	1096.4 ppb	20:32:50
3	B 249.677†	63940.3	63036.7	1493.3 ug/L	1493.3 ppb	20:32:45
3	Ba 233.527†	174193.7	170415.9	1935.8 ug/L	1935.8 ppb	20:32:45
3	Be 313.107†	2052349.9	2018045.2	804.31 ug/L	804.31 ppb	20:32:45
3	Cd 226.502†	45812.0	45006.8	598.25 ug/L	598.25 ppb	20:32:50
3	Co 228.616†	33901.1	33230.6	952.03 ug/L	952.03 ppb	20:32:50
3	Cr 267.716†	183718.7	179665.9	2378.3 ug/L	2378.3 ppb	20:32:45
3	Cu 324.752†	565730.6	545727.7	1946.1 ug/L	1946.1 ppb	20:32:45
3	Mn 257.610†	3627567.5	3548343.9	5459.3 ug/L	5459.3 ppb	20:32:45
3	Mo 202.031†	5665.0	5533.8	509.62 ug/L	509.62 ppb	20:32:50
3	Ni 231.604†	45218.6	44168.0	1376.3 ug/L	1376.3 ppb	20:32:50
3	P 214.914†	14908.7	14364.0	7283.6 ug/L	7283.6 ppb	20:32:50
3	Pb 220.353†	5239.0	5186.5	833.29 ug/L	833.29 ppb	20:32:50
3	S 181.975 Axial†	3427.5	3305.8	4225.3 ug/L	4225.3 ppb	20:32:50
3	Sb 206.836†	3418.4	3310.2	1277.7 ug/L	1277.7 ppb	20:32:50
3	Se 196.026†	4532.4	4455.8	3042.1 ug/L	3042.1 ppb	20:32:50
3	Si 251.611†	1200724.0	1174109.0	40631 ug/L	40631 ppb	20:32:45
3	Sn 189.927†	4444.3	4342.0	1003.9 ug/L	1003.9 ppb	20:32:50
3	Ti 334.940†	3063794.4	2998372.8	5737.4 ug/L	5737.4 ppb	20:32:45
3	Tl 190.801†	2719.6	2691.8	1277.2 ug/L	1277.2 ppb	20:32:50
3	U 409.014†	-7068.9	-4723.6	-175.89 ug/L	-175.89 ppb	20:32:45
3	V 292.402†	164968.1	162987.2	1222.6 ug/L	1222.6 ppb	20:32:45
3	Zn 213.857†	571004.1	557845.4	5915.6 ug/L	5915.6 ppb	20:32:45
3	SiO2†	1192009.8	1165595.5	86578 ug/L	86578 ppb	20:33:08

Mean Data: 1202036254|950257|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	801393.2	101.38 %	0.735			0.72%
Sc Radial	4925.1	101 %	0.2			0.24%
Y 371.029	768207.8	108.98 %	0.768			0.70%
Y RADIAL	5616.0	110.3 %	0.34			0.30%
Ag 328.068†	50340.0	307.11 ug/L	0.661	307.11 ppb	0.661	0.22%
Al 396.153Radial†	101786.2	94784 ug/L	880.0	94784 ppb	880.0	0.93%
As 188.979†	2328.0	1111.8 ug/L	14.51	1111.8 ppb	14.51	1.31%
B 249.677†	62860.6	1489.0 ug/L	4.34	1489.0 ppb	4.34	0.29%
Ba 233.527†	170520.8	1937.0 ug/L	2.96	1937.0 ppb	2.96	0.15%
Be 313.107†	2021835.0	805.80 ug/L	1.299	805.80 ppb	1.299	0.16%
Ca 317.933Radial†	54863.7	96629 ug/L	731.4	96629 ppb	731.4	0.76%
Cd 226.502†	45284.4	602.05 ug/L	5.635	602.05 ppb	5.635	0.94%
Co 228.616†	33387.7	956.61 ug/L	7.805	956.61 ppb	7.805	0.82%
Cr 267.716†	180055.4	2383.5 ug/L	4.86	2383.5 ppb	4.86	0.20%
Cu 324.752†	544037.5	1940.1 ug/L	5.72	1940.1 ppb	5.72	0.29%
Fe 238.204 Radial†	17443.9	184110 ug/L	1507.7	184110 ppb	1507.7	0.82%
K 766.490 Radial†	219976.7	42112 ug/L	345.8	42112 ppb	345.8	0.82%

Mg 279.077 IEC†	974.3	38371 ug/L	116.3	38371 ppb	116.3	0.30%
Mn 257.610†	3549513.0	5461.1 ug/L	4.08	5461.1 ppb	4.08	0.07%
Mo 202.031†	5574.9	513.30 ug/L	5.101	513.30 ppb	5.101	0.99%
Na 589.592 Radial†	31579.0	10685 ug/L	135.3	10685 ppb	135.3	1.27%
Ni 231.604†	44449.2	1385.1 ug/L	10.66	1385.1 ppb	10.66	0.77%
P 214.914†	14427.1	7319.0 ug/L	54.73	7319.0 ppb	54.73	0.75%
Pb 220.353†	5206.2	836.46 ug/L	8.701	836.46 ppb	8.701	1.04%
S 181.975 Axial†	3331.5	4258.2 ug/L	47.72	4258.2 ppb	47.72	1.12%
Sb 206.836†	3346.3	1291.7 ug/L	18.18	1291.7 ppb	18.18	1.41%
Se 196.026†	4482.7	3058.2 ug/L	34.52	3058.2 ppb	34.52	1.13%
Si 251.611†	1172608.9	40579 ug/L	45.4	40579 ppb	45.4	0.11%
Sn 189.927†	4358.8	1007.8 ug/L	6.44	1007.8 ppb	6.44	0.64%
Sr 421.552†	331574.0	2387.5 ug/L	25.44	2387.5 ppb	25.44	1.07%
Ti 334.940†	2997834.6	5736.3 ug/L	0.91	5736.3 ppb	0.91	0.02%
Tl 190.801†	2702.3	1281.9 ug/L	4.51	1281.9 ppb	4.51	0.35%
U 409.014†	-4697.9	-175.10 ug/L	1.745	-175.10 ppb	1.745	1.00%
V 292.402†	163208.7	1224.3 ug/L	1.51	1224.3 ppb	1.51	0.12%
Zn 213.857†	558315.1	5920.5 ug/L	4.95	5920.5 ppb	4.95	0.08%
SiO2†	1176008.6	87351 ug/L	687.3	87351 ppb	687.3	0.79%

Sequence No.: 30
 Sample ID: 246322001|950257|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 59
 Date Collected: 3/2/2010 20:56:23
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 246322001|950257|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4863.6	4863.6	100 %		20:58:17
1	Y RADIAL	5572.7	5572.7	109.5 %		20:58:17
1	Al 396.153Radial†	23458.0	23494.7	21884 ug/L	21884 ppb	20:58:17
1	Ca 317.933Radial†	13317.3	13274.1	23379 ug/L	23379 ppb	20:58:17
1	Fe 238.204 Radial†	6523.7	6501.3	68606 ug/L	68606 ppb	20:58:17
1	K 766.490 Radial†	29882.0	27655.0	5290.2 ug/L	5290.2 ppb	20:58:17
1	Mg 279.077 IEC†	289.4	285.8	11237 ug/L	11237 ppb	20:58:37
1	Na 589.592 Radial†	3522.8	3880.0	1312.9 ug/L	1312.9 ppb	20:58:17
1	Sr 421.552†	23095.5	23026.8	165.68 ug/L	165.68 ppb	20:58:17
1	Sc 361.383	773553.7	773553.7	97.854 %		20:59:34
1	Y 371.029	748850.4	748850.4	106.24 %		20:59:34
1	Ag 328.068†	-3869.7	-4162.6	1.3589 ug/L	1.3589 ppb	20:59:34
1	As 188.979†	-18.2	9.8	36.573 ug/L	36.573 ppb	20:59:54
1	B 249.677†	306.8	798.6	8.1183 ug/L	8.1183 ppb	20:59:34
1	Ba 233.527†	110373.6	112799.7	1278.4 ug/L	1278.4 ppb	20:59:34
1	Be 313.107†	-16880.0	-6977.9	1.5139 ug/L	1.5139 ppb	20:59:34
1	Cd 226.502†	353.6	551.2	0.4847 ug/L	0.4847 ppb	20:59:54
1	Co 228.616†	809.4	893.0	21.584 ug/L	21.584 ppb	20:59:54
1	Cr 267.716†	10384.8	10550.1	141.02 ug/L	141.02 ppb	20:59:34
1	Cu 324.752†	102808.6	97348.0	349.11 ug/L	349.11 ppb	20:59:34
1	Mn 257.610†	1071591.3	1094658.2	1685.4 ug/L	1685.4 ppb	20:59:34
1	Mo 202.031†	-14.5	-22.9	3.5580 ug/L	3.5580 ppb	20:59:54
1	Ni 231.604†	2480.9	2466.9	76.889 ug/L	76.889 ppb	20:59:54
1	P 214.914†	6610.1	6534.1	3422.0 ug/L	3422.0 ppb	20:59:54
1	Pb 220.353†	1955.3	2059.3	326.97 ug/L	326.97 ppb	20:59:54
1	S 181.975 Axial†	474.4	437.5	557.48 ug/L	557.48 ppb	20:59:54
1	Sb 206.836†	42.8	9.7	-3.5567 ug/L	-3.5567 ppb	20:59:54
1	Se 196.026†	-251.5	-235.1	17.426 ug/L	17.426 ppb	20:59:54
1	Si 251.611†	637046.1	650481.1	22514 ug/L	22514 ppb	20:59:34
1	Sn 189.927†	-96.1	-104.0	-23.669 ug/L	-23.669 ppb	20:59:54
1	Ti 334.940†	957742.7	979869.8	1874.2 ug/L	1874.2 ppb	20:59:34
1	Tl 190.801†	-107.5	-78.6	-12.317 ug/L	-12.317 ppb	20:59:54
1	U 409.014†	-6452.8	-4402.5	-147.57 ug/L	-147.57 ppb	20:59:34
1	V 292.402†	25963.3	28134.9	203.48 ug/L	203.48 ppb	20:59:34
1	Zn 213.857†	26876.0	26709.0	273.87 ug/L	273.87 ppb	20:59:34
1	SiO2†	636317.0	649747.4	48269 ug/L	48269 ppb	21:00:52
2	Sc Radial	4919.8	4919.8	101 %		20:58:42
2	Y RADIAL	5614.3	5614.3	110.3 %		20:58:42
2	Al 396.153Radial†	23683.4	23449.7	21842 ug/L	21842 ppb	20:58:42
2	Ca 317.933Radial†	13400.3	13204.1	23256 ug/L	23256 ppb	20:58:42
2	Fe 238.204 Radial†	6580.4	6482.9	68412 ug/L	68412 ppb	20:58:42
2	K 766.490 Radial†	30170.3	27598.8	5279.5 ug/L	5279.5 ppb	20:58:42
2	Mg 279.077 IEC†	291.0	284.0	11169 ug/L	11169 ppb	20:59:02
2	Na 589.592 Radial†	3565.8	3882.3	1313.6 ug/L	1313.6 ppb	20:58:42
2	Sr 421.552†	23330.6	22995.6	165.46 ug/L	165.46 ppb	20:58:42
2	Sc 361.383	801930.8	801930.8	101.44 %		21:00:00
2	Y 371.029	772990.6	772990.6	109.66 %		21:00:00
2	Ag 328.068†	-3959.1	-4110.8	1.5150 ug/L	1.5150 ppb	21:00:00
2	As 188.979†	-31.5	-2.7	30.478 ug/L	30.478 ppb	21:00:20
2	B 249.677†	212.8	694.9	5.6412 ug/L	5.6412 ppb	21:00:00
2	Ba 233.527†	110672.1	109102.7	1236.5 ug/L	1236.5 ppb	21:00:00
2	Be 313.107†	-16850.3	-6338.2	1.6118 ug/L	1.6118 ppb	21:00:00
2	Cd 226.502†	382.0	566.4	0.7134 ug/L	0.7134 ppb	21:00:20
2	Co 228.616†	809.5	863.9	20.862 ug/L	20.862 ppb	21:00:20
2	Cr 267.716†	10419.7	10209.0	136.49 ug/L	136.49 ppb	21:00:00
2	Cu 324.752†	102685.6	93508.9	335.47 ug/L	335.47 ppb	21:00:00
2	Mn 257.610†	1073737.5	1058023.0	1629.2 ug/L	1629.2 ppb	21:00:00
2	Mo 202.031†	-23.2	-31.0	2.8214 ug/L	2.8214 ppb	21:00:20
2	Ni 231.604†	2490.8	2386.8	74.394 ug/L	74.394 ppb	21:00:20

2	P 214.914†	6692.0	6375.8	3339.1 ug/L	3339.1 ppb	21:00:20
2	Pb 220.353†	1996.7	2029.6	322.23 ug/L	322.23 ppb	21:00:20
2	S 181.975 Axial†	484.0	429.8	547.62 ug/L	547.62 ppb	21:00:20
2	Sb 206.836†	55.9	21.1	1.0299 ug/L	1.0299 ppb	21:00:20
2	Se 196.026†	-244.7	-219.4	26.233 ug/L	26.233 ppb	21:00:20
2	Si 251.611†	638630.0	629005.6	21770 ug/L	21770 ppb	21:00:00
2	Sn 189.927†	-96.1	-100.5	-22.887 ug/L	-22.887 ppb	21:00:20
2	Ti 334.940†	957123.6	944625.6	1806.9 ug/L	1806.9 ppb	21:00:00
2	Tl 190.801†	-112.3	-79.4	-13.482 ug/L	-13.482 ppb	21:00:20
2	U 409.014†	-6345.8	-4063.7	-136.80 ug/L	-136.80 ppb	21:00:00
2	V 292.402†	25908.9	27142.4	195.98 ug/L	195.98 ppb	21:00:00
2	Zn 213.857†	26980.1	25839.7	264.66 ug/L	264.66 ppb	21:00:00
2	SiO2†	628865.5	619391.5	46014 ug/L	46014 ppb	21:00:57
3	Sc Radial	4929.9	4929.9	102 %		20:59:07
3	Y RADIAL	5627.0	5627.0	110.5 %		20:59:07
3	Al 396.153Radial†	23709.8	23427.6	21822 ug/L	21822 ppb	20:59:07
3	Ca 317.933Radial†	13406.5	13183.0	23219 ug/L	23219 ppb	20:59:07
3	Fe 238.204 Radial†	6512.0	6402.1	67560 ug/L	67560 ppb	20:59:07
3	K 766.490 Radial†	29946.2	27317.0	5225.5 ug/L	5225.5 ppb	20:59:07
3	Mg 279.077 IEC†	286.7	279.2	10978 ug/L	10978 ppb	20:59:27
3	Na 589.592 Radial†	3602.0	3910.7	1323.2 ug/L	1323.2 ppb	20:59:07
3	Sr 421.552†	23395.9	23012.6	165.58 ug/L	165.58 ppb	20:59:07
3	Sc 361.383	799591.6	799591.6	101.15 %		21:00:26
3	Y 371.029	770457.0	770457.0	109.30 %		21:00:26
3	Ag 328.068†	-3935.2	-4098.6	1.3246 ug/L	1.3246 ppb	21:00:26
3	As 188.979†	-18.5	10.0	35.915 ug/L	35.915 ppb	21:00:46
3	B 249.677†	264.2	746.4	7.0253 ug/L	7.0253 ppb	21:00:26
3	Ba 233.527†	110911.1	109658.2	1242.8 ug/L	1242.8 ppb	21:00:26
3	Be 313.107†	-16842.3	-6378.9	1.6111 ug/L	1.6111 ppb	21:00:26
3	Cd 226.502†	382.4	567.9	0.8211 ug/L	0.8211 ppb	21:00:46
3	Co 228.616†	804.1	860.8	20.774 ug/L	20.774 ppb	21:00:46
3	Cr 267.716†	10409.9	10229.4	136.75 ug/L	136.75 ppb	21:00:26
3	Cu 324.752†	102470.2	93592.1	335.72 ug/L	335.72 ppb	21:00:26
3	Mn 257.610†	1074486.1	1061859.6	1635.0 ug/L	1635.0 ppb	21:00:26
3	Mo 202.031†	-25.8	-33.6	2.5181 ug/L	2.5181 ppb	21:00:46
3	Ni 231.604†	2500.3	2403.5	74.914 ug/L	74.914 ppb	21:00:46
3	P 214.914†	6676.2	6379.5	3341.7 ug/L	3341.7 ppb	21:00:46
3	Pb 220.353†	1956.6	1995.7	316.91 ug/L	316.91 ppb	21:00:46
3	S 181.975 Axial†	466.4	413.9	527.13 ug/L	527.13 ppb	21:00:46
3	Sb 206.836†	57.3	22.6	1.6251 ug/L	1.6251 ppb	21:00:46
3	Se 196.026†	-248.8	-224.2	21.521 ug/L	21.521 ppb	21:00:46
3	Si 251.611†	638078.9	630302.4	21815 ug/L	21815 ppb	21:00:26
3	Sn 189.927†	-85.9	-90.6	-20.574 ug/L	-20.574 ppb	21:00:46
3	Ti 334.940†	957872.8	948126.5	1813.6 ug/L	1813.6 ppb	21:00:26
3	Tl 190.801†	-95.4	-63.1	-6.0394 ug/L	-6.0394 ppb	21:00:46
3	U 409.014†	-6485.3	-4219.9	-141.66 ug/L	-141.66 ppb	21:00:26
3	V 292.402†	26056.7	27363.2	197.77 ug/L	197.77 ppb	21:00:26
3	Zn 213.857†	26934.9	25872.7	265.13 ug/L	265.13 ppb	21:00:26
3	SiO2†	635778.5	628039.6	46657 ug/L	46657 ppb	21:01:03

Mean Data: 246322001|950257|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	791692.1	100.15 %	1.993			1.99%
Sc Radial	4904.4	101 %	0.7			0.73%
Y 371.029	764099.3	108.40 %	1.882			1.74%
Y RADIAL	5604.7	110.1 %	0.56			0.51%
Ag 328.068†	-4124.0	1.3995 ug/L	0.10150	1.3995 ppb	0.10150	7.25%
Al 396.153Radial†	23457.4	21849 ug/L	31.8	21849 ppb	31.8	0.15%
As 188.979†	5.7	34.322 ug/L	3.3454	34.322 ppb	3.3454	9.75%
B 249.677†	746.6	6.9283 ug/L	1.24140	6.9283 ppb	1.24140	17.92%
Ba 233.527†	110520.2	1252.6 ug/L	22.57	1252.6 ppb	22.57	1.80%
Be 313.107†	-6565.0	1.5789 ug/L	0.05633	1.5789 ppb	0.05633	3.57%
Ca 317.933Radial†	13220.4	23285 ug/L	83.9	23285 ppb	83.9	0.36%
Cd 226.502†	561.8	0.6731 ug/L	0.17181	0.6731 ppb	0.17181	25.53%
Co 228.616†	872.5	21.073 ug/L	0.4441	21.073 ppb	0.4441	2.11%
Cr 267.716†	10329.5	138.09 ug/L	2.541	138.09 ppb	2.541	1.84%
Cu 324.752†	94816.3	340.10 ug/L	7.802	340.10 ppb	7.802	2.29%
Fe 238.204 Radial†	6462.1	68192 ug/L	556.6	68192 ppb	556.6	0.82%
K 766.490 Radial†	27523.6	5265.1 ug/L	34.68	5265.1 ppb	34.68	0.66%

Mg 279.077 IEC†	283.0	11128 ug/L	134.5	11128 ppb	134.5	1.21%
Mn 257.610†	1071513.6	1649.8 ug/L	30.91	1649.8 ppb	30.91	1.87%
Mo 202.031†	-29.2	2.9658 ug/L	0.53476	2.9658 ppb	0.53476	18.03%
Na 589.592 Radial†	3891.0	1316.6 ug/L	5.79	1316.6 ppb	5.79	0.44%
Ni 231.604†	2419.1	75.399 ug/L	1.3162	75.399 ppb	1.3162	1.75%
P 214.914†	6429.8	3367.6 ug/L	47.13	3367.6 ppb	47.13	1.40%
Pb 220.353†	2028.3	322.04 ug/L	5.031	322.04 ppb	5.031	1.56%
S 181.975 Axial†	427.1	544.08 ug/L	15.481	544.08 ppb	15.481	2.85%
Sb 206.836†	17.8	-0.3005 ug/L	2.83555	-0.3005 ppb	2.83555	943.47%
Se 196.026†	-226.2	21.727 ug/L	4.4068	21.727 ppb	4.4068	20.28%
Si 251.611†	636596.4	22033 ug/L	416.8	22033 ppb	416.8	1.89%
Sn 189.927†	-98.4	-22.377 ug/L	1.6094	-22.377 ppb	1.6094	7.19%
Sr 421.552†	23011.7	165.57 ug/L	0.112	165.57 ppb	0.112	0.07%
Ti 334.940†	957540.6	1831.6 ug/L	37.10	1831.6 ppb	37.10	2.03%
Tl 190.801†	-73.7	-10.613 ug/L	4.0031	-10.613 ppb	4.0031	37.72%
U 409.014†	-4228.7	-142.01 ug/L	5.390	-142.01 ppb	5.390	3.80%
V 292.402†	27546.8	199.08 ug/L	3.914	199.08 ppb	3.914	1.97%
Zn 213.857†	26140.5	267.89 ug/L	5.188	267.89 ppb	5.188	1.94%
SiO2†	632392.9	46980 ug/L	1161.8	46980 ppb	1161.8	2.47%

Sequence No.: 31
 Sample ID: 1202036250|950257|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 60
 Date Collected: 3/2/2010 21:03:15
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202036250|950257|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4881.7	4881.7	101 %			21:05:08
1	Y RADIAL	5433.7	5433.7	106.7 %			21:05:08
1	Al 396.153Radial†	24754.9	24697.3	23004 ug/L	23004 ppb		21:05:08
1	Ca 317.933Radial†	31184.4	30988.3	54578 ug/L	54578 ppb		21:05:08
1	Fe 238.204 Radial†	5661.8	5620.2	59308 ug/L	59308 ppb		21:05:08
1	K 766.490 Radial†	28647.2	26316.8	5023.5 ug/L	5023.5 ppb		21:05:08
1	Mg 279.077 IEC†	301.4	296.6	11675 ug/L	11675 ppb		21:05:28
1	Na 589.592 Radial†	3934.4	4276.3	1446.9 ug/L	1446.9 ppb		21:05:08
1	Sr 421.552†	31101.3	30900.8	222.16 ug/L	222.16 ppb		21:05:08
1	Sc 361.383	876956.2	876956.2	110.93 %			21:06:26
1	Y 371.029	815676.3	815676.3	115.72 %			21:06:26
1	Ag 328.068†	-3064.5	-2970.5	3.4047 ug/L	3.4047 ppb		21:06:26
1	As 188.979†	-30.3	1.0	25.837 ug/L	25.837 ppb		21:06:46
1	B 249.677†	185.4	652.3	6.1009 ug/L	6.1009 ppb		21:06:26
1	Ba 233.527†	44923.4	40501.1	460.13 ug/L	460.13 ppb		21:06:26
1	Be 313.107†	-14759.1	-3032.0	1.8255 ug/L	1.8255 ppb		21:06:26
1	Cd 226.502†	309.3	468.7	0.3307 ug/L	0.3307 ppb		21:06:46
1	Co 228.616†	703.8	700.3	16.871 ug/L	16.871 ppb		21:06:46
1	Cr 267.716†	10951.3	9809.5	130.87 ug/L	130.87 ppb		21:06:26
1	Cu 324.752†	215078.0	186163.2	663.68 ug/L	663.68 ppb		21:06:26
1	Mn 257.610†	771870.8	695357.2	1072.0 ug/L	1072.0 ppb		21:06:26
1	Mo 202.031†	-10.7	-17.8	3.6657 ug/L	3.6657 ppb		21:06:46
1	Ni 231.604†	2567.6	2246.1	70.008 ug/L	70.008 ppb		21:06:46
1	P 214.914†	4452.7	3792.8	1881.6 ug/L	1881.6 ppb		21:06:46
1	Pb 220.353†	2066.8	1924.4	306.79 ug/L	306.79 ppb		21:06:46
1	S 181.975 Axial†	490.6	394.9	502.61 ug/L	502.61 ppb		21:06:46
1	Sb 206.836†	58.1	18.4	1.1428 ug/L	1.1428 ppb		21:06:46
1	Se 196.026†	-210.1	-167.6	36.441 ug/L	36.441 ppb		21:06:46
1	Si 251.611†	619348.3	557765.9	19305 ug/L	19305 ppb		21:06:26
1	Sn 189.927†	-174.1	-162.7	-31.078 ug/L	-31.078 ppb		21:06:46
1	Ti 334.940†	769752.6	695004.7	1334.1 ug/L	1334.1 ppb		21:06:26
1	Tl 190.801†	-91.4	-51.1	-7.1766 ug/L	-7.1766 ppb		21:06:46
1	U 409.014†	-3622.7	-1073.9	-41.064 ug/L	-41.064 ppb		21:06:26
1	V 292.402†	14135.0	14344.0	99.956 ug/L	99.956 ppb		21:06:26
1	Zn 213.857†	27424.9	23965.3	245.59 ug/L	245.59 ppb		21:06:26
1	SiO2†	622704.4	560802.6	41662 ug/L	41662 ppb		21:07:43
2	Sc Radial	4712.0	4712.0	97.1 %			21:05:33
2	Y RADIAL	5233.7	5233.7	102.8 %			21:05:33
2	Al 396.153Radial†	24494.6	25315.8	23580 ug/L	23580 ppb		21:05:33
2	Ca 317.933Radial†	30720.8	31627.6	55704 ug/L	55704 ppb		21:05:33
2	Fe 238.204 Radial†	5581.0	5739.8	60570 ug/L	60570 ppb		21:05:33
2	K 766.490 Radial†	28477.1	27167.4	5186.1 ug/L	5186.1 ppb		21:05:33
2	Mg 279.077 IEC†	299.4	305.4	12021 ug/L	12021 ppb		21:05:53
2	Na 589.592 Radial†	3858.6	4339.1	1468.2 ug/L	1468.2 ppb		21:05:33
2	Sr 421.552†	30713.5	31615.2	227.30 ug/L	227.30 ppb		21:05:33
2	Sc 361.383	771352.5	771352.5	97.576 %			21:06:52
2	Y 371.029	724789.0	724789.0	102.82 %			21:06:52
2	Ag 328.068†	-3231.6	-3519.9	1.1748 ug/L	1.1748 ppb		21:06:52
2	As 188.979†	-33.4	-6.0	25.108 ug/L	25.108 ppb		21:07:12
2	B 249.677†	116.9	605.0	4.7440 ug/L	4.7440 ppb		21:06:52
2	Ba 233.527†	46489.2	47649.9	541.07 ug/L	541.07 ppb		21:06:52
2	Be 313.107†	-14855.7	-4952.5	1.6033 ug/L	1.6033 ppb		21:06:52
2	Cd 226.502†	317.2	514.9	0.8371 ug/L	0.8371 ppb		21:07:12
2	Co 228.616†	698.7	781.9	18.761 ug/L	18.761 ppb		21:07:12
2	Cr 267.716†	11384.1	11604.6	154.63 ug/L	154.63 ppb		21:06:52
2	Cu 324.752†	221355.6	219140.2	780.76 ug/L	780.76 ppb		21:06:52
2	Mn 257.610†	798885.2	818301.5	1260.7 ug/L	1260.7 ppb		21:06:52
2	Mo 202.031†	-21.9	-30.6	2.6294 ug/L	2.6294 ppb		21:07:12
2	Ni 231.604†	2590.2	2586.1	80.608 ug/L	80.608 ppb		21:07:12

2	P 214.914†	4425.8	4314.8	2140.4 ug/L	2140.4 ppb	21:07:12
2	Pb 220.353†	2062.3	2174.9	346.55 ug/L	346.55 ppb	21:07:12
2	S 181.975 Axial†	497.5	462.6	589.34 ug/L	589.34 ppb	21:07:12
2	Sb 206.836†	46.7	13.9	-1.4239 ug/L	-1.4239 ppb	21:07:12
2	Se 196.026†	-198.9	-182.0	30.861 ug/L	30.861 ppb	21:07:12
2	Si 251.611†	636597.3	651878.9	22562 ug/L	22562 ppb	21:06:52
2	Sn 189.927†	-172.8	-182.9	-35.585 ug/L	-35.585 ppb	21:07:12
2	Ti 334.940†	796464.5	817377.5	1568.0 ug/L	1568.0 ppb	21:06:52
2	Tl 190.801†	-84.8	-55.7	-6.4291 ug/L	-6.4291 ppb	21:07:12
2	U 409.014†	-3749.7	-1651.1	-59.542 ug/L	-59.542 ppb	21:06:52
2	V 292.402†	14790.2	16759.9	117.98 ug/L	117.98 ppb	21:06:52
2	Zn 213.857†	28370.9	28319.4	291.66 ug/L	291.66 ppb	21:06:52
2	SiO2†	632009.2	647188.3	48079 ug/L	48079 ppb	21:07:49
3	Sc Radial	4813.8	4813.8	99.2 %		21:05:58
3	Y RADIAL	5351.6	5351.6	105.1 %		21:05:58
3	Al 396.153Radial†	25153.4	25446.2	23702 ug/L	23702 ppb	21:05:58
3	Ca 317.933Radial†	31549.4	31793.6	55997 ug/L	55997 ppb	21:05:58
3	Fe 238.204 Radial†	5710.2	5748.5	60661 ug/L	60661 ppb	21:05:58
3	K 766.490 Radial†	29029.5	27103.9	5173.8 ug/L	5173.8 ppb	21:05:58
3	Mg 279.077 IEC†	303.0	302.5	11907 ug/L	11907 ppb	21:06:18
3	Na 589.592 Radial†	3922.8	4319.7	1461.6 ug/L	1461.6 ppb	21:05:58
3	Sr 421.552†	31533.3	31772.5	228.43 ug/L	228.43 ppb	21:05:58
3	Sc 361.383	807110.3	807110.3	102.10 %		21:07:17
3	Y 371.029	753751.2	753751.2	106.93 %		21:07:17
3	Ag 328.068†	-3175.5	-3318.3	2.1460 ug/L	2.1460 ppb	21:07:17
3	As 188.979†	-30.4	-1.5	26.234 ug/L	26.234 ppb	21:07:37
3	B 249.677†	213.5	694.3	6.8932 ug/L	6.8932 ppb	21:07:17
3	Ba 233.527†	45662.5	44729.4	508.02 ug/L	508.02 ppb	21:07:17
3	Be 313.107†	-14804.3	-4227.7	1.6589 ug/L	1.6589 ppb	21:07:17
3	Cd 226.502†	334.2	517.2	0.8586 ug/L	0.8586 ppb	21:07:37
3	Co 228.616†	699.0	750.5	18.047 ug/L	18.047 ppb	21:07:37
3	Cr 267.716†	11017.3	10728.4	143.05 ug/L	143.05 ppb	21:07:17
3	Cu 324.752†	217343.1	205159.7	731.16 ug/L	731.16 ppb	21:07:17
3	Mn 257.610†	782389.5	765872.1	1180.2 ug/L	1180.2 ppb	21:07:17
3	Mo 202.031†	-20.5	-28.2	2.8596 ug/L	2.8596 ppb	21:07:37
3	Ni 231.604†	2615.6	2493.4	77.718 ug/L	77.718 ppb	21:07:37
3	P 214.914†	4475.4	4162.5	2067.6 ug/L	2067.6 ppb	21:07:37
3	Pb 220.353†	2079.3	2097.9	334.37 ug/L	334.37 ppb	21:07:37
3	S 181.975 Axial†	499.0	441.5	562.23 ug/L	562.23 ppb	21:07:37
3	Sb 206.836†	56.6	21.4	1.8408 ug/L	1.8408 ppb	21:07:37
3	Se 196.026†	-216.9	-190.6	25.988 ug/L	25.988 ppb	21:07:37
3	Si 251.611†	625094.7	611708.7	21172 ug/L	21172 ppb	21:07:17
3	Sn 189.927†	-166.1	-168.5	-32.231 ug/L	-32.231 ppb	21:07:37
3	Ti 334.940†	779578.8	764676.1	1467.4 ug/L	1467.4 ppb	21:07:17
3	Tl 190.801†	-93.1	-59.9	-9.5278 ug/L	-9.5278 ppb	21:07:37
3	U 409.014†	-3644.2	-1377.5	-50.860 ug/L	-50.860 ppb	21:07:17
3	V 292.402†	14358.0	15665.1	109.71 ug/L	109.71 ppb	21:07:17
3	Zn 213.857†	27774.6	26447.2	271.74 ug/L	271.74 ppb	21:07:17
3	SiO2†	638516.5	624866.0	46421 ug/L	46421 ppb	21:07:54

Mean Data: 1202036250|950257|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	818473.0	103.54 %	6.794			6.56%
Sc Radial	4802.5	99.0 %	1.76			1.78%
Y 371.029	764738.8	108.49 %	6.587			6.07%
Y RADIAL	5339.7	104.9 %	1.97			1.88%
Ag 328.068†	-3269.6	2.2418 ug/L	1.11802	2.2418 ppb	1.11802	49.87%
Al 396.153Radial†	25153.1	23429 ug/L	372.7	23429 ppb	372.7	1.59%
As 188.979†	-2.1	25.726 ug/L	0.5710	25.726 ppb	0.5710	2.22%
B 249.677†	650.5	5.9127 ug/L	1.08686	5.9127 ppb	1.08686	18.38%
Ba 233.527†	44293.5	503.07 ug/L	40.694	503.07 ppb	40.694	8.09%
Be 313.107†	-4070.7	1.6959 ug/L	0.11567	1.6959 ppb	0.11567	6.82%
Ca 317.933Radial†	31469.8	55426 ug/L	748.9	55426 ppb	748.9	1.35%
Cd 226.502†	500.3	0.6755 ug/L	0.29877	0.6755 ppb	0.29877	44.23%
Co 228.616†	744.2	17.893 ug/L	0.9544	17.893 ppb	0.9544	5.33%
Cr 267.716†	10714.1	142.85 ug/L	11.885	142.85 ppb	11.885	8.32%
Cu 324.752†	203487.7	725.20 ug/L	58.768	725.20 ppb	58.768	8.10%
Fe 238.204 Radial†	5702.8	60180 ug/L	756.2	60180 ppb	756.2	1.26%
K 766.490 Radial†	26862.7	5127.8 ug/L	90.52	5127.8 ppb	90.52	1.77%

Mg 279.077 IEC†	301.5	11868 ug/L	176.1	11868 ppb	176.1	1.48%
Mn 257.610†	759843.6	1171.0 ug/L	94.69	1171.0 ppb	94.69	8.09%
Mo 202.031†	-25.5	3.0515 ug/L	0.54419	3.0515 ppb	0.54419	17.83%
Na 589.592 Radial†	4311.7	1458.9 ug/L	10.88	1458.9 ppb	10.88	0.75%
Ni 231.604†	2441.8	76.111 ug/L	5.4794	76.111 ppb	5.4794	7.20%
P 214.914†	4090.0	2029.9 ug/L	133.42	2029.9 ppb	133.42	6.57%
Pb 220.353†	2065.7	329.24 ug/L	20.369	329.24 ppb	20.369	6.19%
S 181.975 Axial†	433.0	551.39 ug/L	44.371	551.39 ppb	44.371	8.05%
Sb 206.836†	17.9	0.5199 ug/L	1.71916	0.5199 ppb	1.71916	330.67%
Se 196.026†	-180.1	31.097 ug/L	5.2309	31.097 ppb	5.2309	16.82%
Si 251.611†	607117.8	21013 ug/L	1634.5	21013 ppb	1634.5	7.78%
Sn 189.927†	-171.3	-32.965 ug/L	2.3414	-32.965 ppb	2.3414	7.10%
Sr 421.552†	31429.5	225.96 ug/L	3.340	225.96 ppb	3.340	1.48%
Ti 334.940†	759019.4	1456.5 ug/L	117.34	1456.5 ppb	117.34	8.06%
Tl 190.801†	-55.6	-7.7112 ug/L	1.61703	-7.7112 ppb	1.61703	20.97%
U 409.014†	-1367.5	-50.489 ug/L	9.2447	-50.489 ppb	9.2447	18.31%
V 292.402†	15589.7	109.22 ug/L	9.024	109.22 ppb	9.024	8.26%
Zn 213.857†	26244.0	269.66 ug/L	23.101	269.66 ppb	23.101	8.57%
SiO2†	610952.3	45387 ug/L	3331.3	45387 ppb	3331.3	7.34%

Sequence No.: 32

Sample ID: 1202036252|950257|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 61

Date Collected: 3/2/2010 21:10:06

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202036252|950257|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4794.6	4794.6	98.8 %		21:12:20
1	Y RADIAL	5449.3	5449.3	107.1 %		21:12:20
1	Al 396.153Radial†	67891.5	68809.9	64069 ug/L	64069 ppb	21:12:00
1	Ca 317.933Radial†	26042.8	26346.8	46403 ug/L	46403 ppb	21:12:00
1	Fe 238.204 Radial†	7215.5	7295.3	76999 ug/L	76999 ppb	21:12:20
1	K 766.490 Radial†	56928.7	55462.3	10606 ug/L	10606 ppb	21:12:00
1	Mg 279.077 IEC†	427.3	429.5	16921 ug/L	16921 ppb	21:12:20
1	Na 589.592 Radial†	33358.6	34132.2	11549 ug/L	11549 ppb	21:12:00
1	Sr 421.552†	131558.0	133151.0	958.70 ug/L	958.70 ppb	21:12:00
1	Sc 361.383	794159.9	794159.9	100.46 %		21:13:19
1	Y 371.029	766037.7	766037.7	108.67 %		21:13:19
1	Ag 328.068†	96281.8	95632.2	493.76 ug/L	493.76 ppb	21:13:19
1	As 188.979†	1062.0	1085.4	514.95 ug/L	514.95 ppb	21:13:40
1	B 249.677†	20450.8	20842.2	490.61 ug/L	490.61 ppb	21:13:19
1	Ba 233.527†	100984.1	100526.7	1140.7 ug/L	1140.7 ppb	21:13:19
1	Be 313.107†	1270230.7	1274677.3	505.69 ug/L	505.69 ppb	21:13:19
1	Cd 226.502†	34560.5	34591.9	466.26 ug/L	466.26 ppb	21:13:40
1	Co 228.616†	17294.8	17281.3	497.03 ug/L	497.03 ppb	21:13:40
1	Cr 267.716†	48698.9	48413.2	641.61 ug/L	641.61 ppb	21:13:19
1	Cu 324.752†	255684.9	246797.0	879.49 ug/L	879.49 ppb	21:13:19
1	Mn 257.610†	1254696.3	1248508.9	1922.0 ug/L	1922.0 ppb	21:13:19
1	Mo 202.031†	5337.7	5305.1	480.29 ug/L	480.29 ppb	21:13:40
1	Ni 231.604†	18651.6	18497.5	576.36 ug/L	576.36 ppb	21:13:40
1	P 214.914†	9219.3	8956.0	4637.5 ug/L	4637.5 ppb	21:13:40
1	Pb 220.353†	4749.5	4789.0	771.18 ug/L	771.18 ppb	21:13:40
1	S 181.975 Axial†	4336.6	4269.5	5467.9 ug/L	5467.9 ppb	21:13:40
1	Sb 206.836†	1261.2	1221.4	477.07 ug/L	477.07 ppb	21:13:40
1	Se 196.026†	564.4	583.6	523.07 ug/L	523.07 ppb	21:13:40
1	Si 251.611†	775882.8	771789.0	26706 ug/L	26706 ppb	21:13:19
1	Sn 189.927†	2065.7	2050.5	474.80 ug/L	474.80 ppb	21:13:40
1	Ti 334.940†	1357885.9	1352782.2	2588.9 ug/L	2588.9 ppb	21:13:19
1	Tl 190.801†	1024.2	1050.7	499.65 ug/L	499.65 ppb	21:13:40
1	U 409.014†	11390.3	13529.8	418.30 ug/L	418.30 ppb	21:13:19
1	V 292.402†	79152.9	80392.1	609.65 ug/L	609.65 ppb	21:13:19
1	Zn 213.857†	72372.8	71284.5	744.52 ug/L	744.52 ppb	21:13:19
1	SiO2†	776906.5	772819.5	57399 ug/L	57399 ppb	21:14:40
2	Sc Radial	4800.5	4800.5	98.9 %		21:12:46
2	Y RADIAL	5453.3	5453.3	107.1 %		21:12:46
2	Al 396.153Radial†	66288.9	67105.4	62482 ug/L	62482 ppb	21:12:26
2	Ca 317.933Radial†	25588.8	25855.5	45538 ug/L	45538 ppb	21:12:26
2	Fe 238.204 Radial†	7217.1	7287.9	76921 ug/L	76921 ppb	21:12:46
2	K 766.490 Radial†	55637.3	54086.0	10343 ug/L	10343 ppb	21:12:26
2	Mg 279.077 IEC†	430.9	432.6	17046 ug/L	17046 ppb	21:12:46
2	Na 589.592 Radial†	32355.9	33077.1	11192 ug/L	11192 ppb	21:12:26
2	Sr 421.552†	128181.3	129573.8	932.94 ug/L	932.94 ppb	21:12:26
2	Sc 361.383	790495.9	790495.9	99.997 %		21:13:47
2	Y 371.029	761453.2	761453.2	108.02 %		21:13:47
2	Ag 328.068†	95928.1	95722.7	494.19 ug/L	494.19 ppb	21:13:47
2	As 188.979†	1062.6	1090.9	517.39 ug/L	517.39 ppb	21:14:07
2	B 249.677†	20362.5	20848.2	490.76 ug/L	490.76 ppb	21:13:47
2	Ba 233.527†	100716.1	100724.6	1142.9 ug/L	1142.9 ppb	21:13:47
2	Be 313.107†	1263969.3	1274276.4	505.54 ug/L	505.54 ppb	21:13:47
2	Cd 226.502†	34460.2	34650.9	467.08 ug/L	467.08 ppb	21:14:07
2	Co 228.616†	17265.3	17331.6	498.48 ug/L	498.48 ppb	21:14:07
2	Cr 267.716†	48576.1	48515.0	642.95 ug/L	642.95 ppb	21:13:47
2	Cu 324.752†	254920.4	247212.2	880.95 ug/L	880.95 ppb	21:13:47
2	Mn 257.610†	1250972.5	1250574.0	1925.1 ug/L	1925.1 ppb	21:13:47
2	Mo 202.031†	5325.1	5317.1	481.35 ug/L	481.35 ppb	21:14:07
2	Ni 231.604†	18595.9	18527.9	577.30 ug/L	577.30 ppb	21:14:07

2	P 214.914†	9177.9	8957.2	4637.5 ug/L	4637.5 ppb	21:14:07
2	Pb 220.353†	4745.1	4806.6	773.57 ug/L	773.57 ppb	21:14:07
2	S 181.975 Axial†	4332.5	4285.4	5488.6 ug/L	5488.6 ppb	21:14:07
2	Sb 206.836†	1259.1	1225.1	478.56 ug/L	478.56 ppb	21:14:07
2	Se 196.026†	568.5	590.3	526.67 ug/L	526.67 ppb	21:14:07
2	Si 251.611†	773798.6	773284.6	26758 ug/L	26758 ppb	21:13:47
2	Sn 189.927†	2061.8	2056.1	475.95 ug/L	475.95 ppb	21:14:07
2	Ti 334.940†	1353945.6	1355106.8	2593.2 ug/L	2593.2 ppb	21:13:47
2	Tl 190.801†	1025.3	1056.6	502.36 ug/L	502.36 ppb	21:14:07
2	U 409.014†	11653.3	13845.3	428.30 ug/L	428.30 ppb	21:13:47
2	V 292.402†	78843.6	80448.0	610.12 ug/L	610.12 ppb	21:13:47
2	Zn 213.857†	72374.8	71620.4	748.11 ug/L	748.11 ppb	21:13:47
2	SiO2†	772677.1	772174.5	57351 ug/L	57351 ppb	21:14:46
3	Sc Radial	4793.9	4793.9	98.8 %		21:13:11
3	Y RADIAL	5467.0	5467.0	107.4 %		21:13:11
3	Al 396.153Radial†	66062.0	66968.6	62354 ug/L	62354 ppb	21:12:51
3	Ca 317.933Radial†	25408.8	25709.1	45280 ug/L	45280 ppb	21:12:51
3	Fe 238.204 Radial†	7227.4	7308.5	77138 ug/L	77138 ppb	21:13:11
3	K 766.490 Radial†	55308.1	53830.7	10294 ug/L	10294 ppb	21:12:51
3	Mg 279.077 IEC†	429.1	431.4	16996 ug/L	16996 ppb	21:13:11
3	Na 589.592 Radial†	32072.2	32835.3	11110 ug/L	11110 ppb	21:12:51
3	Sr 421.552†	127346.0	128907.8	928.15 ug/L	928.15 ppb	21:12:51
3	Sc 361.383	781662.3	781662.3	98.880 %		21:14:14
3	Y 371.029	752497.4	752497.4	106.75 %		21:14:14
3	Ag 328.068†	94760.5	95626.0	493.79 ug/L	493.79 ppb	21:14:14
3	As 188.979†	1079.8	1120.3	530.25 ug/L	530.25 ppb	21:14:34
3	B 249.677†	20180.9	20894.6	491.83 ug/L	491.83 ppb	21:14:14
3	Ba 233.527†	99433.4	100565.6	1141.1 ug/L	1141.1 ppb	21:14:14
3	Be 313.107†	1247740.0	1272147.8	504.69 ug/L	504.69 ppb	21:14:14
3	Cd 226.502†	34640.6	35222.9	474.90 ug/L	474.90 ppb	21:14:34
3	Co 228.616†	17366.1	17628.6	507.14 ug/L	507.14 ppb	21:14:34
3	Cr 267.716†	47986.0	48467.2	642.32 ug/L	642.32 ppb	21:14:14
3	Cu 324.752†	250982.0	246110.1	877.06 ug/L	877.06 ppb	21:14:14
3	Mn 257.610†	1235128.0	1248687.8	1922.2 ug/L	1922.2 ppb	21:14:14
3	Mo 202.031†	5350.3	5402.7	489.01 ug/L	489.01 ppb	21:14:34
3	Ni 231.604†	18708.3	18851.8	587.39 ug/L	587.39 ppb	21:14:34
3	P 214.914†	9232.2	9115.8	4724.1 ug/L	4724.1 ppb	21:14:34
3	Pb 220.353†	4727.8	4842.7	779.29 ug/L	779.29 ppb	21:14:34
3	S 181.975 Axial†	4357.3	4359.4	5583.7 ug/L	5583.7 ppb	21:14:34
3	Sb 206.836†	1273.6	1254.1	490.03 ug/L	490.03 ppb	21:14:34
3	Se 196.026†	576.6	604.9	535.76 ug/L	535.76 ppb	21:14:34
3	Si 251.611†	763377.2	771490.1	26696 ug/L	26696 ppb	21:14:14
3	Sn 189.927†	2086.2	2104.1	486.91 ug/L	486.91 ppb	21:14:34
3	Ti 334.940†	1336097.1	1352357.6	2587.9 ug/L	2587.9 ppb	21:14:14
3	Tl 190.801†	1022.0	1064.8	505.94 ug/L	505.94 ppb	21:14:34
3	U 409.014†	11172.3	13490.6	417.04 ug/L	417.04 ppb	21:14:14
3	V 292.402†	77806.8	80290.5	608.97 ug/L	608.97 ppb	21:14:14
3	Zn 213.857†	71436.2	71489.0	746.62 ug/L	746.62 ppb	21:14:14
3	SiO2†	768793.2	776979.0	57708 ug/L	57708 ppb	21:14:52

Mean Data: 1202036252|950257|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	788772.7	99.779 %	0.8127			0.81%
Sc Radial	4796.3	98.8 %	0.07			0.08%
Y 371.029	759996.1	107.82 %	0.977			0.91%
Y RADIAL	5456.5	107.2 %	0.18			0.17%
Ag 328.068†	95660.3	493.91 ug/L	0.238	493.91 ppb	0.238	0.05%
Al 396.153Radial†	67627.9	62968 ug/L	955.7	62968 ppb	955.7	1.52%
As 188.979†	1098.9	520.86 ug/L	8.219	520.86 ppb	8.219	1.58%
B 249.677†	20861.7	491.06 ug/L	0.664	491.06 ppb	0.664	0.14%
Ba 233.527†	100605.6	1141.6 ug/L	1.18	1141.6 ppb	1.18	0.10%
Be 313.107†	1273700.5	505.31 ug/L	0.536	505.31 ppb	0.536	0.11%
Ca 317.933Radial†	25970.5	45741 ug/L	588.3	45741 ppb	588.3	1.29%
Cd 226.502†	34821.9	469.41 ug/L	4.766	469.41 ppb	4.766	1.02%
Co 228.616†	17413.9	500.88 ug/L	5.467	500.88 ppb	5.467	1.09%
Cr 267.716†	48465.1	642.29 ug/L	0.671	642.29 ppb	0.671	0.10%
Cu 324.752†	246706.4	879.17 ug/L	1.966	879.17 ppb	1.966	0.22%
Fe 238.204 Radial†	7297.2	77019 ug/L	110.0	77019 ppb	110.0	0.14%
K 766.490 Radial†	54459.7	10414 ug/L	167.9	10414 ppb	167.9	1.61%

Mg 279.077 IEC†	431.2	16987 ug/L	62.8	16987 ppb	62.8	0.37%
Mn 257.610†	1249256.9	1923.1 ug/L	1.75	1923.1 ppb	1.75	0.09%
Mo 202.031†	5341.6	483.55 ug/L	4.759	483.55 ppb	4.759	0.98%
Na 589.592 Radial†	33348.2	11284 ug/L	233.4	11284 ppb	233.4	2.07%
Ni 231.604†	18625.7	580.35 ug/L	6.117	580.35 ppb	6.117	1.05%
P 214.914†	9009.7	4666.4 ug/L	50.02	4666.4 ppb	50.02	1.07%
Pb 220.353†	4812.8	774.68 ug/L	4.165	774.68 ppb	4.165	0.54%
S 181.975 Axial†	4304.7	5513.4 ug/L	61.71	5513.4 ppb	61.71	1.12%
Sb 206.836†	1233.5	481.89 ug/L	7.090	481.89 ppb	7.090	1.47%
Se 196.026†	593.0	528.50 ug/L	6.539	528.50 ppb	6.539	1.24%
Si 251.611†	772187.9	26720 ug/L	33.3	26720 ppb	33.3	0.12%
Sn 189.927†	2070.2	479.22 ug/L	6.685	479.22 ppb	6.685	1.39%
Sr 421.552†	130544.2	939.93 ug/L	16.432	939.93 ppb	16.432	1.75%
Ti 334.940†	1353415.5	2590.0 ug/L	2.81	2590.0 ppb	2.81	0.11%
Tl 190.801†	1057.4	502.65 ug/L	3.153	502.65 ppb	3.153	0.63%
U 409.014†	13621.9	421.21 ug/L	6.169	421.21 ppb	6.169	1.46%
V 292.402†	80376.9	609.58 ug/L	0.576	609.58 ppb	0.576	0.09%
Zn 213.857†	71464.6	746.42 ug/L	1.803	746.42 ppb	1.803	0.24%
SiO2†	773991.0	57486 ug/L	193.6	57486 ppb	193.6	0.34%

Sequence No.: 33
 Sample ID: 1202036253|950257|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 62
 Date Collected: 3/2/2010 21:17:04
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202036253|950257|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4821.6	4821.6	99.3 %		21:19:17
1	Y RADIAL	5454.2	5454.2	107.1 %		21:19:17
1	Al 396.153Radial†	57302.1	57766.8	53784 ug/L	53784 ppb	21:18:57
1	Ca 317.933Radial†	29489.0	29668.6	52254 ug/L	52254 ppb	21:18:57
1	Fe 238.204 Radial†	10629.2	10690.7	112830 ug/L	112830 ppb	21:19:17
1	K 766.490 Radial†	55633.1	53836.4	10293 ug/L	10293 ppb	21:18:57
1	Mg 279.077 IEC†	1096.6	1100.8	43452 ug/L	43452 ppb	21:19:17
1	Na 589.592 Radial†	33464.8	34050.6	11521 ug/L	11521 ppb	21:18:57
1	Sr 421.552†	111989.5	112709.6	811.43 ug/L	811.43 ppb	21:18:57
1	Sc 361.383	797962.8	797962.8	100.94 %		21:20:16
1	Y 371.029	759666.7	759666.7	107.77 %		21:20:16
1	Ag 328.068†	91902.8	90837.3	481.54 ug/L	481.54 ppb	21:20:16
1	As 188.979†	1028.1	1046.8	522.25 ug/L	522.25 ppb	21:20:36
1	B 249.677†	20453.9	20748.2	482.43 ug/L	482.43 ppb	21:20:16
1	Ba 233.527†	98501.9	97588.6	1108.7 ug/L	1108.7 ppb	21:20:16
1	Be 313.107†	1219551.1	1218444.8	487.78 ug/L	487.78 ppb	21:20:16
1	Cd 226.502†	34076.6	33948.5	453.85 ug/L	453.85 ppb	21:20:36
1	Co 228.616†	18328.5	18223.3	519.97 ug/L	519.97 ppb	21:20:36
1	Cr 267.716†	58605.5	5796.3	768.99 ug/L	768.99 ppb	21:20:16
1	Cu 324.752†	335552.1	324706.1	1157.8 ug/L	1157.8 ppb	21:20:16
1	Mn 257.610†	1667184.0	1651196.0	2542.1 ug/L	2542.1 ppb	21:20:16
1	Mo 202.031†	5260.9	5203.7	474.09 ug/L	474.09 ppb	21:20:36
1	Ni 231.604†	24055.6	23762.7	740.48 ug/L	740.48 ppb	21:20:36
1	P 214.914†	8785.5	8482.5	4294.5 ug/L	4294.5 ppb	21:20:36
1	Pb 220.353†	4814.4	4830.8	772.34 ug/L	772.34 ppb	21:20:36
1	S 181.975 Axial†	4335.7	4248.0	5442.3 ug/L	5442.3 ppb	21:20:36
1	Sb 206.836†	1251.9	1206.2	465.21 ug/L	465.21 ppb	21:20:36
1	Se 196.026†	425.2	443.1	519.63 ug/L	519.63 ppb	21:20:36
1	Si 251.611†	784291.5	776438.6	26867 ug/L	26867 ppb	21:20:16
1	Sn 189.927†	2056.5	2031.6	469.44 ug/L	469.44 ppb	21:20:36
1	Ti 334.940†	2327413.3	2306822.1	4410.1 ug/L	4410.1 ppb	21:20:16
1	Tl 190.801†	972.5	994.7	492.26 ug/L	492.26 ppb	21:20:36
1	U 409.014†	11383.5	13469.1	412.01 ug/L	412.01 ppb	21:20:16
1	V 292.402†	90625.6	91382.3	687.04 ug/L	687.04 ppb	21:20:16
1	Zn 213.857†	75230.0	73771.7	764.29 ug/L	764.29 ppb	21:20:16
1	SiO2†	778539.8	770752.1	57246 ug/L	57246 ppb	21:21:37
2	Sc Radial	4869.8	4869.8	100 %		21:19:42
2	Y RADIAL	5503.6	5503.6	108.1 %		21:19:42
2	Al 396.153Radial†	57195.0	57088.1	53151 ug/L	53151 ppb	21:19:22
2	Ca 317.933Radial†	29343.3	29229.1	51480 ug/L	51480 ppb	21:19:22
2	Fe 238.204 Radial†	10666.1	10621.4	112100 ug/L	112100 ppb	21:19:42
2	K 766.490 Radial†	55630.0	53278.0	10186 ug/L	10186 ppb	21:19:22
2	Mg 279.077 IEC†	1098.7	1092.0	43103 ug/L	43103 ppb	21:19:42
2	Na 589.592 Radial†	33568.9	33820.4	11444 ug/L	11444 ppb	21:19:22
2	Sr 421.552†	112087.0	111689.1	804.08 ug/L	804.08 ppb	21:19:22
2	Sc 361.383	766859.2	766859.2	97.007 %		21:20:43
2	Y 371.029	731823.2	731823.2	103.82 %		21:20:43
2	Ag 328.068†	91866.2	94492.3	499.35 ug/L	499.35 ppb	21:20:43
2	As 188.979†	1027.4	1087.4	541.57 ug/L	541.57 ppb	21:21:03
2	B 249.677†	20561.4	21680.9	505.06 ug/L	505.06 ppb	21:20:43
2	Ba 233.527†	99072.8	102135.0	1160.2 ug/L	1160.2 ppb	21:20:43
2	Be 313.107†	1225294.4	1273368.3	509.77 ug/L	509.77 ppb	21:20:43
2	Cd 226.502†	34182.5	35426.9	474.20 ug/L	474.20 ppb	21:21:03
2	Co 228.616†	18394.2	19027.5	542.99 ug/L	542.99 ppb	21:21:03
2	Cr 267.716†	59042.3	60801.4	806.06 ug/L	806.06 ppb	21:20:43
2	Cu 324.752†	336397.5	339060.5	1208.7 ug/L	1208.7 ppb	21:20:43
2	Mn 257.610†	1677666.2	1728991.1	2661.3 ug/L	2661.3 ppb	21:20:43
2	Mo 202.031†	5302.2	5457.6	496.70 ug/L	496.70 ppb	21:21:03
2	Ni 231.604†	24109.6	24784.9	772.33 ug/L	772.33 ppb	21:21:03

2	P 214.914†	8797.9	8848.3	4483.2 ug/L	4483.2 ppb	21:21:03
2	Pb 220.353†	4814.2	5024.1	802.95 ug/L	802.95 ppb	21:21:03
2	S 181.975 Axial†	4343.4	4430.2	5676.2 ug/L	5676.2 ppb	21:21:03
2	Sb 206.836†	1251.2	1255.8	484.43 ug/L	484.43 ppb	21:21:03
2	Se 196.026†	450.3	486.1	543.28 ug/L	543.28 ppb	21:21:03
2	Si 251.611†	787920.5	811693.3	28087 ug/L	28087 ppb	21:20:43
2	Sn 189.927†	2041.6	2098.8	484.80 ug/L	484.80 ppb	21:21:03
2	Ti 334.940†	2339924.6	2413237.7	4613.3 ug/L	4613.3 ppb	21:20:43
2	Tl 190.801†	971.1	1032.4	511.30 ug/L	511.30 ppb	21:21:03
2	U 409.014†	11652.4	14203.6	435.28 ug/L	435.28 ppb	21:20:43
2	V 292.402†	91120.9	95534.4	719.09 ug/L	719.09 ppb	21:20:43
2	Zn 213.857†	75601.7	77177.7	800.48 ug/L	800.48 ppb	21:20:43
2	SiO2†	774411.6	797779.2	59253 ug/L	59253 ppb	21:21:43
3	Sc Radial	4814.1	4814.1	99.2 %		21:20:07
3	Y RADIAL	5452.0	5452.0	107.1 %		21:20:07
3	Al 396.153Radial†	57153.7	57706.3	53727 ug/L	53727 ppb	21:19:47
3	Ca 317.933Radial†	29365.4	29589.8	52115 ug/L	52115 ppb	21:19:47
3	Fe 238.204 Radial†	10566.9	10644.4	112340 ug/L	112340 ppb	21:20:07
3	K 766.490 Radial†	55738.1	54028.8	10329 ug/L	10329 ppb	21:19:47
3	Mg 279.077 IEC†	1088.5	1094.4	43196 ug/L	43196 ppb	21:20:07
3	Na 589.592 Radial†	33336.8	33973.6	11495 ug/L	11495 ppb	21:19:47
3	Sr 421.552†	111746.1	112638.3	810.91 ug/L	810.91 ppb	21:19:47
3	Sc 361.383	787514.5	787514.5	99.620 %		21:21:11
3	Y 371.029	749206.4	749206.4	106.29 %		21:21:11
3	Ag 328.068†	90991.2	91130.2	482.84 ug/L	482.84 ppb	21:21:11
3	As 188.979†	1017.8	1050.0	523.76 ug/L	523.76 ppb	21:21:31
3	B 249.677†	20412.6	20975.6	488.01 ug/L	488.01 ppb	21:21:11
3	Ba 233.527†	97891.6	98270.6	1116.4 ug/L	1116.4 ppb	21:21:11
3	Be 313.107†	1210335.8	1225223.7	490.50 ug/L	490.50 ppb	21:21:11
3	Cd 226.502†	33805.6	34124.3	456.32 ug/L	456.32 ppb	21:21:31
3	Co 228.616†	18187.5	18322.7	522.82 ug/L	522.82 ppb	21:21:31
3	Cr 267.716†	58241.5	58401.2	774.33 ug/L	774.33 ppb	21:21:11
3	Cu 324.752†	332278.1	325830.0	1161.8 ug/L	1161.8 ppb	21:21:11
3	Mn 257.610†	1656727.6	1662612.6	2559.5 ug/L	2559.5 ppb	21:21:11
3	Mo 202.031†	5243.2	5255.1	478.64 ug/L	478.64 ppb	21:21:31
3	Ni 231.604†	23829.6	23852.0	743.26 ug/L	743.26 ppb	21:21:31
3	P 214.914†	8710.3	8522.5	4315.8 ug/L	4315.8 ppb	21:21:31
3	Pb 220.353†	4791.7	4871.3	778.79 ug/L	778.79 ppb	21:21:31
3	S 181.975 Axial†	4291.1	4260.2	5458.0 ug/L	5458.0 ppb	21:21:31
3	Sb 206.836†	1243.9	1214.7	468.45 ug/L	468.45 ppb	21:21:31
3	Se 196.026†	424.4	447.8	521.35 ug/L	521.35 ppb	21:21:31
3	Si 251.611†	778850.4	781285.2	27035 ug/L	27035 ppb	21:21:11
3	Sn 189.927†	2023.3	2025.3	468.00 ug/L	468.00 ppb	21:21:31
3	Ti 334.940†	2312217.6	2322159.2	4439.4 ug/L	4439.4 ppb	21:21:11
3	Tl 190.801†	962.7	997.6	493.87 ug/L	493.87 ppb	21:21:31
3	U 409.014†	11442.0	13677.4	418.65 ug/L	418.65 ppb	21:21:11
3	V 292.402†	89908.1	91853.2	690.76 ug/L	690.76 ppb	21:21:11
3	Zn 213.857†	74778.9	74307.6	770.06 ug/L	770.06 ppb	21:21:11
3	SiO2†	779290.0	781738.0	58062 ug/L	58062 ppb	21:21:49

Mean Data: 1202036253|950257|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	784112.1	99.190 %		2.0023			2.02%
Sc Radial	4835.2	99.6 %		0.62			0.63%
Y 371.029	746898.8	105.96 %		1.995			1.88%
Y RADIAL	5469.9	107.5 %		0.57			0.53%
Ag 328.068†	92153.3	487.91 ug/L		9.927	487.91 ppb	9.927	2.03%
Al 396.153Radial†	57520.4	53554 ug/L		350.4	53554 ppb	350.4	0.65%
As 188.979†	1061.4	529.19 ug/L		10.746	529.19 ppb	10.746	2.03%
B 249.677†	21134.9	491.84 ug/L		11.790	491.84 ppb	11.790	2.40%
Ba 233.527†	99331.4	1128.5 ug/L		27.76	1128.5 ppb	27.76	2.46%
Be 313.107†	1239012.2	496.02 ug/L		11.992	496.02 ppb	11.992	2.42%
Ca 317.933Radial†	29495.8	51950 ug/L		412.8	51950 ppb	412.8	0.79%
Cd 226.502†	34499.9	461.46 ug/L		11.106	461.46 ppb	11.106	2.41%
Co 228.616†	18524.5	528.59 ug/L		12.547	528.59 ppb	12.547	2.37%
Cr 267.716†	59066.3	783.12 ug/L		20.040	783.12 ppb	20.040	2.56%
Cu 324.752†	329865.5	1176.1 ug/L		28.30	1176.1 ppb	28.30	2.41%
Fe 238.204 Radial†	10652.2	112420 ug/L		372.1	112420 ppb	372.1	0.33%
K 766.490 Radial†	53714.4	10269 ug/L		74.6	10269 ppb	74.6	0.73%

Mg 279.077 IEC†	1095.7	43250 ug/L	180.7	43250 ppb	180.7	0.42%
Mn 257.610†	1680933.2	2587.7 ug/L	64.41	2587.7 ppb	64.41	2.49%
Mo 202.031†	5305.5	483.14 ug/L	11.957	483.14 ppb	11.957	2.47%
Na 589.592 Radial†	33948.2	11487 ug/L	39.7	11487 ppb	39.7	0.35%
Ni 231.604†	24133.2	752.03 ug/L	17.642	752.03 ppb	17.642	2.35%
P 214.914†	8617.8	4364.5 ug/L	103.35	4364.5 ppb	103.35	2.37%
Pb 220.353†	4908.7	784.69 ug/L	16.137	784.69 ppb	16.137	2.06%
S 181.975 Axial†	4312.8	5525.5 ug/L	130.79	5525.5 ppb	130.79	2.37%
Sb 206.836†	1225.6	472.70 ug/L	10.290	472.70 ppb	10.290	2.18%
Se 196.026†	459.0	528.09 ug/L	13.187	528.09 ppb	13.187	2.50%
Si 251.611†	789805.7	27330 ug/L	661.2	27330 ppb	661.2	2.42%
Sn 189.927†	2051.9	474.08 ug/L	9.308	474.08 ppb	9.308	1.96%
Sr 421.552†	112345.7	808.81 ug/L	4.101	808.81 ppb	4.101	0.51%
Ti 334.940†	2347406.3	4487.6 ug/L	109.84	4487.6 ppb	109.84	2.45%
Tl 190.801†	1008.2	499.14 ug/L	10.557	499.14 ppb	10.557	2.12%
U 409.014†	13783.4	421.98 ug/L	11.984	421.98 ppb	11.984	2.84%
V 292.402†	92923.3	698.97 ug/L	17.530	698.97 ppb	17.530	2.51%
Zn 213.857†	75085.7	778.28 ug/L	19.446	778.28 ppb	19.446	2.50%
SiO2†	783423.1	58187 ug/L	1009.4	58187 ppb	1009.4	1.73%

Sequence No.: 34

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/2/2010 21:24:00

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4834.4	4834.4	99.6 %		21:25:53
1	Y RADIAL	5064.9	5064.9	99.50 %		21:25:53
1	Al 396.153Radial†	5270.4	5377.0	4984.1 ug/L	4984.1 ppb	21:25:53
1	Ca 317.933Radial†	2859.0	2854.8	5028.1 ug/L	5028.1 ppb	21:26:13
1	Fe 238.204 Radial†	494.4	487.6	5160.2 ug/L	5160.2 ppb	21:26:13
1	K 766.490 Radial†	28610.8	26559.1	5082.6 ug/L	5082.6 ppb	21:25:53
1	Mg 279.077 IEC†	133.4	130.9	5179.7 ug/L	5179.7 ppb	21:26:13
1	Na 589.592 Radial†	31011.6	31498.4	10658 ug/L	10658 ppb	21:25:53
1	Sr 421.552†	72009.0	72272.4	520.52 ug/L	520.52 ppb	21:25:53
1	Sc 361.383	787190.7	787190.7	99.579 %		21:27:10
1	Y 371.029	696971.4	696971.4	98.877 %		21:27:10
1	Ag 328.068†	100729.1	100946.8	497.76 ug/L	497.76 ppb	21:27:15
1	As 188.979†	1111.4	1144.4	505.80 ug/L	505.80 ppb	21:27:35
1	B 249.677†	20033.9	20603.7	496.48 ug/L	496.48 ppb	21:27:15
1	Ba 233.527†	43900.9	44092.1	499.96 ug/L	499.96 ppb	21:27:15
1	Be 313.107†	1263059.7	1278670.1	502.51 ug/L	502.51 ppb	21:27:10
1	Cd 226.502†	36320.5	36663.8	502.03 ug/L	502.03 ppb	21:27:15
1	Co 228.616†	17389.5	17528.9	509.46 ug/L	509.46 ppb	21:27:15
1	Cr 267.716†	37773.0	37870.2	500.79 ug/L	500.79 ppb	21:27:15
1	Cu 324.752†	146182.5	139085.1	493.48 ug/L	493.48 ppb	21:27:15
1	Mn 257.610†	323954.9	324891.1	498.64 ug/L	498.64 ppb	21:27:15
1	Mo 202.031†	5594.3	5609.8	501.44 ug/L	501.44 ppb	21:27:35
1	Ni 231.604†	16435.1	16436.1	512.09 ug/L	512.09 ppb	21:27:15
1	P 214.914†	4802.8	4602.1	2397.5 ug/L	2397.5 ppb	21:27:35
1	Pb 220.353†	3092.8	3167.3	504.75 ug/L	504.75 ppb	21:27:35
1	S 181.975 Axial†	838.9	795.2	1019.7 ug/L	1019.7 ppb	21:27:35
1	Sb 206.836†	1323.3	1294.9	515.16 ug/L	515.16 ppb	21:27:35
1	Se 196.026†	824.7	850.1	513.33 ug/L	513.33 ppb	21:27:35
1	Si 251.611†	72336.1	72106.5	2489.5 ug/L	2489.5 ppb	21:27:15
1	Sn 189.927†	2157.7	2161.1	496.98 ug/L	496.98 ppb	21:27:35
1	Ti 334.940†	256377.8	258585.3	493.88 ug/L	493.88 ppb	21:27:15
1	Tl 190.801†	1071.3	1107.0	501.05 ug/L	501.05 ppb	21:27:35
1	U 409.014†	13368.7	15616.9	492.90 ug/L	492.90 ppb	21:27:15
1	V 292.402†	63344.9	65214.8	506.37 ug/L	506.37 ppb	21:27:15
1	Zn 213.857†	47393.8	46837.7	495.25 ug/L	495.25 ppb	21:27:15
1	SiO2†	72172.3	71953.5	5331.7 ug/L	5331.7 ppb	21:28:42
2	Sc Radial	4811.4	4811.4	99.1 %		21:26:18
2	Y RADIAL	5051.1	5051.1	99.23 %		21:26:18
2	Al 396.153Radial†	5223.6	5355.0	4963.6 ug/L	4963.6 ppb	21:26:18
2	Ca 317.933Radial†	2833.6	2843.0	5007.3 ug/L	5007.3 ppb	21:26:38
2	Fe 238.204 Radial†	491.1	486.6	5150.2 ug/L	5150.2 ppb	21:26:38
2	K 766.490 Radial†	28400.3	26483.8	5068.2 ug/L	5068.2 ppb	21:26:18
2	Mg 279.077 IEC†	133.2	131.3	5197.0 ug/L	5197.0 ppb	21:26:38
2	Na 589.592 Radial†	30542.1	31173.4	10548 ug/L	10548 ppb	21:26:18
2	Sr 421.552†	71286.5	71888.7	517.76 ug/L	517.76 ppb	21:26:18
2	Sc 361.383	788379.1	788379.1	99.729 %		21:27:41
2	Y 371.029	696949.1	696949.1	98.873 %		21:27:41
2	Ag 328.068†	100810.4	100875.8	497.41 ug/L	497.41 ppb	21:27:46
2	As 188.979†	1119.3	1150.6	508.51 ug/L	508.51 ppb	21:28:06
2	B 249.677†	19980.1	20519.4	494.44 ug/L	494.44 ppb	21:27:46
2	Ba 233.527†	43934.7	44059.6	499.59 ug/L	499.59 ppb	21:27:46
2	Be 313.107†	1260671.7	1274363.7	500.82 ug/L	500.82 ppb	21:27:41
2	Cd 226.502†	36454.2	36742.9	503.12 ug/L	503.12 ppb	21:27:46
2	Co 228.616†	17475.3	17588.5	511.19 ug/L	511.19 ppb	21:27:46
2	Cr 267.716†	37851.7	37892.0	501.08 ug/L	501.08 ppb	21:27:46
2	Cu 324.752†	145801.6	138481.9	491.34 ug/L	491.34 ppb	21:27:46
2	Mn 257.610†	324793.4	325241.6	499.17 ug/L	499.17 ppb	21:27:46
2	Mo 202.031†	5603.1	5610.1	501.46 ug/L	501.46 ppb	21:28:06
2	Ni 231.604†	16541.1	16517.5	514.62 ug/L	514.62 ppb	21:27:46

2	P 214.914†	4800.9	4592.9	2392.9 ug/L	2392.9 ppb	21:28:06
2	Pb 220.353†	3098.5	3168.2	504.90 ug/L	504.90 ppb	21:28:06
2	S 181.975 Axial†	835.3	790.3	1013.4 ug/L	1013.4 ppb	21:28:06
2	Sb 206.836†	1317.0	1286.6	511.97 ug/L	511.97 ppb	21:28:06
2	Se 196.026†	824.9	849.0	512.67 ug/L	512.67 ppb	21:28:06
2	Si 251.611†	72308.7	71969.6	2484.8 ug/L	2484.8 ppb	21:27:46
2	Sn 189.927†	2161.6	2161.7	497.13 ug/L	497.13 ppb	21:28:06
2	Ti 334.940†	256276.0	258095.2	492.94 ug/L	492.94 ppb	21:27:46
2	Tl 190.801†	1085.2	1119.4	506.59 ug/L	506.59 ppb	21:28:06
2	U 409.014†	13228.8	15456.4	487.82 ug/L	487.82 ppb	21:27:46
2	V 292.402†	63271.6	65045.5	505.06 ug/L	505.06 ppb	21:27:46
2	Zn 213.857†	47523.8	46896.3	495.86 ug/L	495.86 ppb	21:27:46
2	SiO2†	71243.8	70913.2	5254.4 ug/L	5254.4 ppb	21:28:47
3	Sc Radial	4827.6	4827.6	99.5 %		21:26:43
3	Y RADIAL	5047.5	5047.5	99.16 %		21:26:43
3	Al 396.153Radial†	5245.8	5359.6	4967.9 ug/L	4967.9 ppb	21:26:43
3	Ca 317.933Radial†	2862.9	2862.8	5042.1 ug/L	5042.1 ppb	21:27:03
3	Fe 238.204 Radial†	490.9	484.7	5130.6 ug/L	5130.6 ppb	21:27:03
3	K 766.490 Radial†	28493.2	26480.9	5067.7 ug/L	5067.7 ppb	21:26:43
3	Mg 279.077 IEC†	130.8	128.4	5082.8 ug/L	5082.8 ppb	21:27:03
3	Na 589.592 Radial†	30432.4	30959.5	10476 ug/L	10476 ppb	21:26:43
3	Sr 421.552†	71330.4	71691.0	516.33 ug/L	516.33 ppb	21:26:43
3	Sc 361.383	784413.6	784413.6	99.228 %		21:28:12
3	Y 371.029	694015.0	694015.0	98.457 %		21:28:12
3	Ag 328.068†	100300.5	100872.9	497.39 ug/L	497.39 ppb	21:28:17
3	As 188.979†	1109.7	1146.6	506.76 ug/L	506.76 ppb	21:28:37
3	B 249.677†	19956.5	20596.9	496.31 ug/L	496.31 ppb	21:28:17
3	Ba 233.527†	43663.7	44009.2	499.02 ug/L	499.02 ppb	21:28:17
3	Be 313.107†	1255247.1	1275287.2	501.18 ug/L	501.18 ppb	21:28:12
3	Cd 226.502†	36250.2	36722.1	502.83 ug/L	502.83 ppb	21:28:17
3	Co 228.616†	17402.6	17603.8	511.63 ug/L	511.63 ppb	21:28:17
3	Cr 267.716†	37755.2	37986.6	502.33 ug/L	502.33 ppb	21:28:17
3	Cu 324.752†	145003.1	138416.2	491.11 ug/L	491.11 ppb	21:28:17
3	Mn 257.610†	322933.2	325013.3	498.82 ug/L	498.82 ppb	21:28:17
3	Mo 202.031†	5561.3	5596.4	500.24 ug/L	500.24 ppb	21:28:37
3	Ni 231.604†	16391.0	16450.0	512.52 ug/L	512.52 ppb	21:28:17
3	P 214.914†	4764.5	4580.6	2386.3 ug/L	2386.3 ppb	21:28:37
3	Pb 220.353†	3071.8	3157.0	503.12 ug/L	503.12 ppb	21:28:37
3	S 181.975 Axial†	826.7	785.8	1007.7 ug/L	1007.7 ppb	21:28:37
3	Sb 206.836†	1331.4	1307.7	520.05 ug/L	520.05 ppb	21:28:37
3	Se 196.026†	825.8	854.0	515.58 ug/L	515.58 ppb	21:28:37
3	Si 251.611†	71888.4	71912.4	2482.8 ug/L	2482.8 ppb	21:28:17
3	Sn 189.927†	2147.1	2158.1	496.29 ug/L	496.29 ppb	21:28:37
3	Ti 334.940†	255240.6	258350.7	493.44 ug/L	493.44 ppb	21:28:17
3	Tl 190.801†	1077.1	1116.7	505.38 ug/L	505.38 ppb	21:28:37
3	U 409.014†	13280.0	15575.1	491.58 ug/L	491.58 ppb	21:28:17
3	V 292.402†	63070.7	65163.7	505.96 ug/L	505.96 ppb	21:28:17
3	Zn 213.857†	47296.0	46907.6	496.00 ug/L	496.00 ppb	21:28:17
3	SiO2†	72016.9	72053.5	5339.2 ug/L	5339.2 ppb	21:28:53

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	786661.1	99.512 %	0.2574			0.26%
Sc Radial	4824.5	99.4 %	0.24			0.24%
Y 371.029	695978.5	98.736 %	0.2412			0.24%
Y RADIAL	5054.5	99.29 %	0.180			0.18%
Ag 328.068†	100898.5	497.52 ug/L	0.209	497.52 ppb	0.209	0.04%
QC value within limits for Ag 328.068 Recovery = 99.50%						
Al 396.153Radial†	5363.9	4971.9 ug/L	10.78	4971.9 ppb	10.78	0.22%
QC value within limits for Al 396.153Radial Recovery = 99.44%						
As 188.979†	1147.2	507.03 ug/L	1.376	507.03 ppb	1.376	0.27%
QC value within limits for As 188.979 Recovery = 101.41%						
B 249.677†	20573.4	495.74 ug/L	1.135	495.74 ppb	1.135	0.23%
QC value within limits for B 249.677 Recovery = 99.15%						
Ba 233.527†	44053.6	499.52 ug/L	0.473	499.52 ppb	0.473	0.09%
QC value within limits for Ba 233.527 Recovery = 99.90%						
Be 313.107†	1276107.0	501.50 ug/L	0.890	501.50 ppb	0.890	0.18%
QC value within limits for Be 313.107 Recovery = 100.30%						
Ca 317.933Radial†	2853.5	5025.8 ug/L	17.54	5025.8 ppb	17.54	0.35%

QC value within limits for Ca 317.933 Radial Recovery = 100.52%

Cd 226.502†	36709.6	502.66 ug/L	0.563	502.66 ppb	0.563	0.11%
QC value within limits for Cd 226.502 Recovery = 100.53%						
Co 228.616†	17573.7	510.76 ug/L	1.150	510.76 ppb	1.150	0.23%
QC value within limits for Co 228.616 Recovery = 102.15%						
Cr 267.716†	37916.3	501.40 ug/L	0.817	501.40 ppb	0.817	0.16%
QC value within limits for Cr 267.716 Recovery = 100.28%						
Cu 324.752†	138661.1	491.98 ug/L	1.308	491.98 ppb	1.308	0.27%
QC value within limits for Cu 324.752 Recovery = 98.40%						
Fe 238.204 Radial†	486.3	5147.0 ug/L	15.06	5147.0 ppb	15.06	0.29%
QC value within limits for Fe 238.204 Radial Recovery = 102.94%						
K 766.490 Radial†	26507.9	5072.8 ug/L	8.46	5072.8 ppb	8.46	0.17%
QC value within limits for K 766.490 Radial Recovery = 101.46%						
Mg 279.077 IEC†	130.2	5153.2 ug/L	61.55	5153.2 ppb	61.55	1.19%
QC value within limits for Mg 279.077 IEC Recovery = 103.06%						
Mn 257.610†	325048.7	498.88 ug/L	0.272	498.88 ppb	0.272	0.05%
QC value within limits for Mn 257.610 Recovery = 99.78%						
Mo 202.031†	5605.5	501.05 ug/L	0.700	501.05 ppb	0.700	0.14%
QC value within limits for Mo 202.031 Recovery = 100.21%						
Na 589.592 Radial†	31210.4	10560 ug/L	91.8	10560 ppb	91.8	0.87%
QC value within limits for Na 589.592 Radial Recovery = 105.60%						
Ni 231.604†	16467.9	513.08 ug/L	1.357	513.08 ppb	1.357	0.26%
QC value within limits for Ni 231.604 Recovery = 102.62%						
P 214.914†	4591.9	2392.3 ug/L	5.62	2392.3 ppb	5.62	0.24%
QC value within limits for P 214.914 Recovery = 95.69%						
Pb 220.353†	3164.2	504.26 ug/L	0.984	504.26 ppb	0.984	0.20%
QC value within limits for Pb 220.353 Recovery = 100.85%						
S 181.975 Axial†	790.4	1013.6 ug/L	6.01	1013.6 ppb	6.01	0.59%
QC value within limits for S 181.975 Axial Recovery = 101.36%						
Sb 206.836†	1296.4	515.73 ug/L	4.070	515.73 ppb	4.070	0.79%
QC value within limits for Sb 206.836 Recovery = 103.15%						
Se 196.026†	851.0	513.86 ug/L	1.528	513.86 ppb	1.528	0.30%
QC value within limits for Se 196.026 Recovery = 102.77%						
Si 251.611†	71996.2	2485.7 ug/L	3.44	2485.7 ppb	3.44	0.14%
QC value within limits for Si 251.611 Recovery = 99.43%						
Sn 189.927†	2160.3	496.80 ug/L	0.444	496.80 ppb	0.444	0.09%
QC value within limits for Sn 189.927 Recovery = 99.36%						
Sr 421.552†	71950.7	518.20 ug/L	2.130	518.20 ppb	2.130	0.41%
QC value within limits for Sr 421.552 Recovery = 103.64%						
Ti 334.940†	258343.7	493.42 ug/L	0.470	493.42 ppb	0.470	0.10%
QC value within limits for Ti 334.940 Recovery = 98.68%						
Tl 190.801†	1114.4	504.34 ug/L	2.916	504.34 ppb	2.916	0.58%
QC value within limits for Tl 190.801 Recovery = 100.87%						
U 409.014†	15549.5	490.77 ug/L	2.637	490.77 ppb	2.637	0.54%
QC value within limits for U 409.014 Recovery = 98.15%						
V 292.402†	65141.3	505.79 ug/L	0.667	505.79 ppb	0.667	0.13%
QC value within limits for V 292.402 Recovery = 101.16%						
Zn 213.857†	46880.5	495.70 ug/L	0.400	495.70 ppb	0.400	0.08%
QC value within limits for Zn 213.857 Recovery = 99.14%						
SiO2†	71640.0	5308.5 ug/L	46.92	5308.5 ppb	46.92	0.88%
QC value within limits for SiO2 Recovery = 99.27%						

All analyte(s) passed QC.

Sequence No.: 35
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/2/2010 21:31:03
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4824.5	4824.5	99.4 %		21:32:54
1	Y RADIAL	5079.6	5079.6	99.79 %		21:32:54
1	Al 396.153Radial†	-81.5	3.8	3.5318 ug/L	3.5318 ppb	21:33:14
1	Ca 317.933Radial†	25.4	10.1	17.834 ug/L	17.834 ppb	21:33:14
1	Fe 238.204 Radial†	9.2	0.5	5.2884 ug/L	5.2884 ppb	21:33:14
1	K 766.490 Radial†	2116.5	-35.3	-6.7614 ug/L	-6.7614 ppb	21:32:54
1	Mg 279.077 IEC†	0.8	-2.2	-87.041 ug/L	-87.041 ppb	21:33:14
1	Na 589.592 Radial†	-392.7	-30.4	-10.299 ug/L	-10.299 ppb	21:32:54
1	Sr 421.552†	47.7	27.7	0.1995 ug/L	0.1995 ppb	21:32:54
1	Sc 361.383	782939.9	782939.9	99.041 %		21:34:11
1	Y 371.029	700531.5	700531.5	99.382 %		21:34:11
1	Ag 328.068†	117.9	-89.0	-0.4345 ug/L	-0.4345 ppb	21:34:11
1	As 188.979†	-34.9	-7.0	-3.0524 ug/L	-3.0524 ppb	21:34:31
1	B 249.677†	-185.1	298.3	7.2193 ug/L	7.2193 ppb	21:34:31
1	Ba 233.527†	14.5	20.3	0.2284 ug/L	0.2284 ppb	21:34:31
1	Be 313.107†	-9662.9	515.8	0.2025 ug/L	0.2025 ppb	21:34:11
1	Cd 226.502†	-175.5	12.7	0.1723 ug/L	0.1723 ppb	21:34:31
1	Co 228.616†	-58.5	6.8	0.1986 ug/L	0.1986 ppb	21:34:31
1	Cr 267.716†	80.0	18.3	0.2426 ug/L	0.2426 ppb	21:34:31
1	Cu 324.752†	7733.7	93.4	0.3332 ug/L	0.3332 ppb	21:34:11
1	Mn 257.610†	593.0	165.9	0.2585 ug/L	0.2585 ppb	21:34:31
1	Mo 202.031†	13.7	5.7	0.5088 ug/L	0.5088 ppb	21:34:31
1	Ni 231.604†	74.4	6.7	0.2072 ug/L	0.2072 ppb	21:34:31
1	P 214.914†	201.2	-17.8	-9.7293 ug/L	-9.7293 ppb	21:34:31
1	Pb 220.353†	-45.3	15.6	2.4734 ug/L	2.4734 ppb	21:34:31
1	S 181.975 Axial†	46.1	-0.7	-0.9280 ug/L	-0.9280 ppb	21:34:31
1	Sb 206.836†	41.4	7.8	2.9918 ug/L	2.9918 ppb	21:34:31
1	Se 196.026†	-17.3	4.3	2.5629 ug/L	2.5629 ppb	21:34:31
1	Si 251.611†	656.1	127.2	4.3954 ug/L	4.3954 ppb	21:34:31
1	Sn 189.927†	4.6	-1.1	-0.2433 ug/L	-0.2433 ppb	21:34:31
1	Ti 334.940†	-1058.8	54.9	0.1157 ug/L	0.1157 ppb	21:34:11
1	Tl 190.801†	-29.9	1.1	0.4751 ug/L	0.4751 ppb	21:34:31
1	U 409.014†	-2268.1	-98.4	-3.1162 ug/L	-3.1162 ppb	21:34:11
1	V 292.402†	-1660.9	-74.7	-0.5738 ug/L	-0.5738 ppb	21:34:11
1	Zn 213.857†	823.3	74.8	0.7959 ug/L	0.7959 ppb	21:34:31
1	SiO2†	665.0	147.5	10.947 ug/L	10.947 ppb	21:35:27
2	Sc Radial	4834.9	4834.9	99.6 %		21:33:20
2	Y RADIAL	5085.4	5085.4	99.90 %		21:33:20
2	Al 396.153Radial†	-81.0	4.5	4.1349 ug/L	4.1349 ppb	21:33:40
2	Ca 317.933Radial†	28.9	13.6	23.979 ug/L	23.979 ppb	21:33:40
2	Fe 238.204 Radial†	7.4	-1.3	-14.168 ug/L	-14.168 ppb	21:33:40
2	K 766.490 Radial†	2260.8	105.0	20.115 ug/L	20.115 ppb	21:33:20
2	Mg 279.077 IEC†	5.0	2.0	78.919 ug/L	78.919 ppb	21:33:40
2	Na 589.592 Radial†	-433.0	-70.1	-23.715 ug/L	-23.715 ppb	21:33:20
2	Sr 421.552†	46.1	26.0	0.1871 ug/L	0.1871 ppb	21:33:20
2	Sc 361.383	778761.4	778761.4	98.513 %		21:34:37
2	Y 371.029	695819.8	695819.8	98.713 %		21:34:37
2	Ag 328.068†	148.2	-57.6	-0.2822 ug/L	-0.2822 ppb	21:34:37
2	As 188.979†	-32.5	-4.7	-2.0742 ug/L	-2.0742 ppb	21:34:57
2	B 249.677†	-201.5	280.6	6.7940 ug/L	6.7940 ppb	21:34:57
2	Ba 233.527†	10.0	15.8	0.1792 ug/L	0.1792 ppb	21:34:57
2	Be 313.107†	-9758.7	366.3	0.1444 ug/L	0.1444 ppb	21:34:37
2	Cd 226.502†	-191.6	-4.7	-0.0634 ug/L	-0.0634 ppb	21:34:57
2	Co 228.616†	-46.6	18.5	0.5400 ug/L	0.5400 ppb	21:34:57
2	Cr 267.716†	83.2	22.0	0.2927 ug/L	0.2927 ppb	21:34:57
2	Cu 324.752†	7612.4	12.1	0.0447 ug/L	0.0447 ppb	21:34:37
2	Mn 257.610†	579.9	155.8	0.2343 ug/L	0.2343 ppb	21:34:57
2	Mo 202.031†	19.0	11.2	0.9955 ug/L	0.9955 ppb	21:34:57
2	Ni 231.604†	87.8	20.6	0.6422 ug/L	0.6422 ppb	21:34:57

2	P 214.914†	209.2	-8.6	-4.6716 ug/L	-4.6716 ppb	21:34:57
2	Pb 220.353†	-57.1	3.4	0.5438 ug/L	0.5438 ppb	21:34:57
2	S 181.975 Axial†	45.1	-1.5	-1.9565 ug/L	-1.9565 ppb	21:34:57
2	Sb 206.836†	41.4	8.0	3.1025 ug/L	3.1025 ppb	21:34:57
2	Se 196.026†	-16.8	4.8	2.8072 ug/L	2.8072 ppb	21:34:57
2	Si 251.611†	652.8	127.3	4.3948 ug/L	4.3948 ppb	21:34:57
2	Sn 189.927†	9.1	3.5	0.8157 ug/L	0.8157 ppb	21:34:57
2	Ti 334.940†	-944.0	165.7	0.3153 ug/L	0.3153 ppb	21:34:37
2	Tl 190.801†	-34.6	-3.9	-1.7329 ug/L	-1.7329 ppb	21:34:57
2	U 409.014†	-2301.8	-144.8	-4.5854 ug/L	-4.5854 ppb	21:34:37
2	V 292.402†	-1549.8	29.0	0.2307 ug/L	0.2307 ppb	21:34:37
2	Zn 213.857†	809.0	64.8	0.6898 ug/L	0.6898 ppb	21:34:57
2	SiO2†	669.6	155.8	11.550 ug/L	11.550 ppb	21:35:32
3	Sc Radial	4803.6	4803.6	99.0 %		21:33:45
3	Y RADIAL	5080.6	5080.6	99.81 %		21:33:45
3	Al 396.153Radial†	-76.5	8.6	7.9399 ug/L	7.9399 ppb	21:34:05
3	Ca 317.933Radial†	21.0	5.8	10.302 ug/L	10.302 ppb	21:34:05
3	Fe 238.204 Radial†	8.3	-0.3	-3.4249 ug/L	-3.4249 ppb	21:34:05
3	K 766.490 Radial†	2246.5	105.3	20.183 ug/L	20.183 ppb	21:33:45
3	Mg 279.077 IEC†	-0.1	-3.1	-122.52 ug/L	-122.52 ppb	21:34:05
3	Na 589.592 Radial†	-401.3	-40.8	-13.821 ug/L	-13.821 ppb	21:33:45
3	Sr 421.552†	42.7	22.9	0.1645 ug/L	0.1645 ppb	21:33:45
3	Sc 361.383	773948.5	773948.5	97.904 %		21:35:02
3	Y 371.029	692264.1	692264.1	98.209 %		21:35:02
3	Ag 328.068†	187.8	-16.3	-0.0786 ug/L	-0.0786 ppb	21:35:02
3	As 188.979†	-26.9	0.9	0.3770 ug/L	0.3770 ppb	21:35:22
3	B 249.677†	-195.7	285.2	6.9048 ug/L	6.9048 ppb	21:35:22
3	Ba 233.527†	-1.5	4.2	0.0466 ug/L	0.0466 ppb	21:35:22
3	Be 313.107†	-9623.5	442.7	0.1738 ug/L	0.1738 ppb	21:35:02
3	Cd 226.502†	-180.9	5.1	0.0693 ug/L	0.0693 ppb	21:35:22
3	Co 228.616†	-54.5	10.2	0.2978 ug/L	0.2978 ppb	21:35:22
3	Cr 267.716†	54.3	-6.9	-0.0901 ug/L	-0.0901 ppb	21:35:22
3	Cu 324.752†	7548.5	-5.2	-0.0163 ug/L	-0.0163 ppb	21:35:02
3	Mn 257.610†	554.0	132.9	0.2085 ug/L	0.2085 ppb	21:35:22
3	Mo 202.031†	19.5	11.8	1.0551 ug/L	1.0551 ppb	21:35:22
3	Ni 231.604†	67.7	0.7	0.0219 ug/L	0.0219 ppb	21:35:22
3	P 214.914†	214.7	-1.6	-0.8705 ug/L	-0.8705 ppb	21:35:22
3	Pb 220.353†	-54.8	5.4	0.8635 ug/L	0.8635 ppb	21:35:22
3	S 181.975 Axial†	39.6	-6.8	-8.6986 ug/L	-8.6986 ppb	21:35:22
3	Sb 206.836†	28.8	-4.5	-1.7168 ug/L	-1.7168 ppb	21:35:22
3	Se 196.026†	-5.6	16.1	9.4596 ug/L	9.4596 ppb	21:35:22
3	Si 251.611†	634.7	113.0	3.8980 ug/L	3.8980 ppb	21:35:22
3	Sn 189.927†	7.8	2.2	0.5002 ug/L	0.5002 ppb	21:35:22
3	Ti 334.940†	-1063.1	38.1	0.0860 ug/L	0.0860 ppb	21:35:02
3	Tl 190.801†	-33.6	-3.1	-1.3857 ug/L	-1.3857 ppb	21:35:22
3	U 409.014†	-2269.1	-126.0	-3.9895 ug/L	-3.9895 ppb	21:35:02
3	V 292.402†	-1599.9	-31.9	-0.2390 ug/L	-0.2390 ppb	21:35:02
3	Zn 213.857†	820.5	81.6	0.8715 ug/L	0.8715 ppb	21:35:22
3	SiO2†	648.0	138.0	10.226 ug/L	10.226 ppb	21:35:37

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	778549.9	98.486 %		0.5692			0.58%
Sc Radial	4821.0	99.3 %		0.33			0.33%
Y 371.029	696205.1	98.768 %		0.5883			0.60%
Y RADIAL	5081.9	99.83 %		0.061			0.06%
Ag 328.068†	-54.3	-0.2651 ug/L		0.17855	-0.2651 ppb	0.17855	67.35%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	5.6	5.2022 ug/L		2.39002	5.2022 ppb	2.39002	45.94%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-3.6	-1.5832 ug/L		1.76660	-1.5832 ppb	1.76660	111.58%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	288.0	6.9727 ug/L		0.22063	6.9727 ppb	0.22063	3.16%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	13.4	0.1514 ug/L		0.09401	0.1514 ppb	0.09401	62.09%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	441.6	0.1735 ug/L		0.02908	0.1735 ppb	0.02908	16.75%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	9.9	17.372 ug/L		6.8500	17.372 ppb	6.8500	39.43%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	4.4	0.0594 ug/L	0.11816	0.0594 ppb	0.11816 198.78%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	11.8	0.3455 ug/L	0.17561	0.3455 ppb	0.17561 50.83%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	11.1	0.1484 ug/L	0.20809	0.1484 ppb	0.20809 140.23%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	33.4	0.1205 ug/L	0.18670	0.1205 ppb	0.18670 154.88%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	-0.4	-4.1014 ug/L	9.74563	-4.1014 ppb	9.74563 237.62%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	58.3	11.179 ug/L	15.5366	11.179 ppb	15.5366 138.98%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-1.1	-43.548 ug/L	107.5335	-43.548 ppb	107.5335 246.93%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	151.5	0.2338 ug/L	0.02498	0.2338 ppb	0.02498 10.69%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	9.6	0.8531 ug/L	0.29973	0.8531 ppb	0.29973 35.13%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-47.1	-15.945 ug/L	6.9554	-15.945 ppb	6.9554 43.62%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	9.3	0.2905 ug/L	0.31845	0.2905 ppb	0.31845 109.64%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-9.4	-5.0905 ug/L	4.44423	-5.0905 ppb	4.44423 87.30%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	8.1	1.2936 ug/L	1.03420	1.2936 ppb	1.03420 79.95%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-3.0	-3.8610 ug/L	4.22090	-3.8610 ppb	4.22090 109.32%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	3.7	1.4592 ug/L	2.75101	1.4592 ppb	2.75101 188.53%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	8.4	4.9432 ug/L	3.91322	4.9432 ppb	3.91322 79.16%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	122.5	4.2294 ug/L	0.28699	4.2294 ppb	0.28699 6.79%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	1.5	0.3576 ug/L	0.54372	0.3576 ppb	0.54372 152.07%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	25.5	0.1837 ug/L	0.01771	0.1837 ppb	0.01771 9.64%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	86.3	0.1723 ug/L	0.12466	0.1723 ppb	0.12466 72.34%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	-2.0	-0.8811 ug/L	1.18730	-0.8811 ppb	1.18730 134.75%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-123.0	-3.8970 ug/L	0.73895	-3.8970 ppb	0.73895 18.96%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-25.9	-0.1940 ug/L	0.40412	-0.1940 ppb	0.40412 208.31%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	73.7	0.7857 ug/L	0.09127	0.7857 ppb	0.09127 11.62%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	147.1	10.908 ug/L	0.6627	10.908 ppb	0.6627 6.08%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 36

Sample ID: 1202036251|950257|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 63

Date Collected: 3/2/2010 21:37:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202036251|950257|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4857.4	4857.4	100 %			21:39:40
1	Y RADIAL	5190.3	5190.3	102.0 %			21:39:40
1	Al 396.153Radial†	4479.0	4561.2	4248.5 ug/L	4248.5	ppb	21:39:40
1	Ca 317.933Radial†	2567.0	2549.5	4490.3 ug/L	4490.3	ppb	21:40:00
1	Fe 238.204 Radial†	1260.2	1250.4	13195 ug/L	13195	ppb	21:40:00
1	K 766.490 Radial†	7515.3	5344.7	1022.4 ug/L	1022.4	ppb	21:39:40
1	Mg 279.077 IEC†	57.7	54.7	2149.0 ug/L	2149.0	ppb	21:40:00
1	Na 589.592 Radial†	287.1	651.4	220.42 ug/L	220.42	ppb	21:39:40
1	Sr 421.552†	4306.5	4282.7	30.813 ug/L	30.813	ppb	21:39:40
1	Sc 361.383	788850.3	788850.3	99.789 %			21:40:57
1	Y 371.029	713703.4	713703.4	101.25 %			21:40:57
1	Ag 328.068†	-639.8	-849.2	0.0223 ug/L	0.0223	ppb	21:40:57
1	As 188.979†	-29.1	-0.9	5.8323 ug/L	5.8323	ppb	21:41:17
1	B 249.677†	-206.8	278.0	4.5699 ug/L	4.5699	ppb	21:40:57
1	Ba 233.527†	21580.8	21632.1	245.16 ug/L	245.16	ppb	21:40:57
1	Be 313.107†	-11250.0	-1001.5	0.4239 ug/L	0.4239	ppb	21:40:57
1	Cd 226.502†	-59.8	129.9	0.4214 ug/L	0.4214	ppb	21:41:17
1	Co 228.616†	125.1	191.3	4.7203 ug/L	4.7203	ppb	21:41:17
1	Cr 267.716†	1992.4	1934.2	25.868 ug/L	25.868	ppb	21:41:17
1	Cu 324.752†	25398.5	17736.9	63.645 ug/L	63.645	ppb	21:40:57
1	Mn 257.610†	213562.3	213580.8	328.82 ug/L	328.82	ppb	21:40:57
1	Mo 202.031†	9.4	1.3	1.1897 ug/L	1.1897	ppb	21:41:17
1	Ni 231.604†	573.9	506.6	15.790 ug/L	15.790	ppb	21:41:17
1	P 214.914†	1456.3	1238.4	648.93 ug/L	648.93	ppb	21:41:17
1	Pb 220.353†	340.3	402.3	63.885 ug/L	63.885	ppb	21:41:17
1	S 181.975 Axial†	126.3	79.3	101.00 ug/L	101.00	ppb	21:41:17
1	Sb 206.836†	35.5	1.6	-0.8056 ug/L	-0.8056	ppb	21:41:17
1	Se 196.026†	-69.8	-48.1	1.6813 ug/L	1.6813	ppb	21:41:17
1	Si 251.611†	124156.3	123883.5	4287.7 ug/L	4287.7	ppb	21:40:57
1	Sn 189.927†	-20.1	-25.9	-5.9191 ug/L	-5.9191	ppb	21:41:17
1	Ti 334.940†	186769.1	188287.8	360.15 ug/L	360.15	ppb	21:40:57
1	Tl 190.801†	-41.6	-10.5	-0.2570 ug/L	-0.2570	ppb	21:41:17
1	U 409.014†	-3045.9	-860.6	-28.819 ug/L	-28.819	ppb	21:40:57
1	V 292.402†	3761.0	5371.2	38.835 ug/L	38.835	ppb	21:40:57
1	Zn 213.857†	5863.9	5119.9	52.490 ug/L	52.490	ppb	21:40:57
1	SiO2†	122118.3	121852.5	9052.3 ug/L	9052.3	ppb	21:42:14
2	Sc Radial	4835.5	4835.5	99.6 %			21:40:05
2	Y RADIAL	5219.5	5219.5	102.5 %			21:40:05
2	Al 396.153Radial†	4483.2	4585.7	4271.3 ug/L	4271.3	ppb	21:40:05
2	Ca 317.933Radial†	2590.4	2584.6	4552.2 ug/L	4552.2	ppb	21:40:25
2	Fe 238.204 Radial†	1270.1	1266.0	13360 ug/L	13360	ppb	21:40:25
2	K 766.490 Radial†	7424.0	5287.0	1011.4 ug/L	1011.4	ppb	21:40:05
2	Mg 279.077 IEC†	53.5	50.6	1990.4 ug/L	1990.4	ppb	21:40:25
2	Na 589.592 Radial†	290.6	656.3	222.06 ug/L	222.06	ppb	21:40:05
2	Sr 421.552†	4269.3	4264.8	30.684 ug/L	30.684	ppb	21:40:05
2	Sc 361.383	773492.2	773492.2	97.846 %			21:41:23
2	Y 371.029	699496.9	699496.9	99.235 %			21:41:23
2	Ag 328.068†	-621.2	-842.9	0.1034 ug/L	0.1034	ppb	21:41:23
2	As 188.979†	-28.6	-0.9	5.8428 ug/L	5.8428	ppb	21:41:43
2	B 249.677†	-156.9	324.8	5.6784 ug/L	5.6784	ppb	21:41:23
2	Ba 233.527†	21203.5	21675.9	245.66 ug/L	245.66	ppb	21:41:23
2	Be 313.107†	-11118.2	-1090.6	0.3876 ug/L	0.3876	ppb	21:41:23
2	Cd 226.502†	-80.2	107.9	0.1018 ug/L	0.1018	ppb	21:41:43
2	Co 228.616†	114.5	182.9	4.4760 ug/L	4.4760	ppb	21:41:43
2	Cr 267.716†	1990.4	1971.8	26.368 ug/L	26.368	ppb	21:41:43
2	Cu 324.752†	24760.1	17589.9	63.133 ug/L	63.133	ppb	21:41:23
2	Mn 257.610†	209182.7	213354.1	328.49 ug/L	328.49	ppb	21:41:23
2	Mo 202.031†	8.6	0.6	1.1463 ug/L	1.1463	ppb	21:41:43
2	Ni 231.604†	562.8	506.7	15.793 ug/L	15.793	ppb	21:41:43

2	P 214.914†	1469.0	1280.4	671.64 ug/L	671.64 ppb	21:41:43
2	Pb 220.353†	337.9	406.7	64.569 ug/L	64.569 ppb	21:41:43
2	S 181.975 Axial†	124.3	79.8	101.62 ug/L	101.62 ppb	21:41:43
2	Sb 206.836†	35.8	2.6	-0.4110 ug/L	-0.4110 ppb	21:41:43
2	Se 196.026†	-65.6	-45.2	3.7229 ug/L	3.7229 ppb	21:41:43
2	Si 251.611†	121190.9	123323.1	4268.3 ug/L	4268.3 ppb	21:41:23
2	Sn 189.927†	-20.5	-26.7	-6.0818 ug/L	-6.0818 ppb	21:41:43
2	Ti 334.940†	182802.9	187950.6	359.53 ug/L	359.53 ppb	21:41:23
2	Tl 190.801†	-53.2	-23.1	-5.9449 ug/L	-5.9449 ppb	21:41:43
2	U 409.014†	-3009.5	-884.0	-29.579 ug/L	-29.579 ppb	21:41:23
2	V 292.402†	3682.2	5365.5	38.762 ug/L	38.762 ppb	21:41:23
2	Zn 213.857†	5691.5	5060.3	51.830 ug/L	51.830 ppb	21:41:23
2	SiO2†	125474.9	127712.9	9487.7 ug/L	9487.7 ppb	21:42:19
3	Sc Radial	4902.1	4902.1	101 %		21:40:30
3	Y RADIAL	5261.4	5261.4	103.4 %		21:40:30
3	Al 396.153Radial†	4545.8	4586.5	4272.0 ug/L	4272.0 ppb	21:40:30
3	Ca 317.933Radial†	2589.6	2548.5	4488.6 ug/L	4488.6 ppb	21:40:50
3	Fe 238.204 Radial†	1263.7	1242.4	13110 ug/L	13110 ppb	21:40:50
3	K 766.490 Radial†	7466.3	5227.6	999.99 ug/L	999.99 ppb	21:40:30
3	Mg 279.077 IEC†	57.5	53.9	2119.6 ug/L	2119.6 ppb	21:40:50
3	Na 589.592 Radial†	327.0	688.3	232.90 ug/L	232.90 ppb	21:40:30
3	Sr 421.552†	4364.2	4300.6	30.942 ug/L	30.942 ppb	21:40:30
3	Sc 361.383	779489.6	779489.6	98.605 %		21:41:48
3	Y 371.029	705105.7	705105.7	100.03 %		21:41:48
3	Ag 328.068†	-667.1	-884.6	-0.1792 ug/L	-0.1792 ppb	21:41:48
3	As 188.979†	-29.3	-1.4	5.5838 ug/L	5.5838 ppb	21:42:08
3	B 249.677†	-196.2	286.2	4.7843 ug/L	4.7843 ppb	21:41:48
3	Ba 233.527†	21277.0	21583.7	244.61 ug/L	244.61 ppb	21:41:48
3	Be 313.107†	-11210.7	-1097.0	0.3855 ug/L	0.3855 ppb	21:41:48
3	Cd 226.502†	-89.8	98.8	0.0036 ug/L	0.0036 ppb	21:42:08
3	Co 228.616†	104.9	172.2	4.1682 ug/L	4.1682 ppb	21:42:08
3	Cr 267.716†	1990.2	1955.9	26.153 ug/L	26.153 ppb	21:42:08
3	Cu 324.752†	24959.9	17597.8	63.147 ug/L	63.147 ppb	21:41:48
3	Mn 257.610†	210583.0	213129.4	328.12 ug/L	328.12 ppb	21:41:48
3	Mo 202.031†	10.8	2.8	1.3194 ug/L	1.3194 ppb	21:42:08
3	Ni 231.604†	561.2	500.7	15.606 ug/L	15.606 ppb	21:42:08
3	P 214.914†	1454.7	1254.3	657.72 ug/L	657.72 ppb	21:42:08
3	Pb 220.353†	324.3	390.2	61.980 ug/L	61.980 ppb	21:42:08
3	S 181.975 Axial†	129.0	83.6	106.45 ug/L	106.45 ppb	21:42:08
3	Sb 206.836†	46.2	12.9	3.5455 ug/L	3.5455 ppb	21:42:08
3	Se 196.026†	-61.8	-40.9	5.7280 ug/L	5.7280 ppb	21:42:08
3	Si 251.611†	122758.7	123960.1	4290.4 ug/L	4290.4 ppb	21:41:48
3	Sn 189.927†	-17.0	-23.0	-5.2302 ug/L	-5.2302 ppb	21:42:08
3	Ti 334.940†	184324.4	188056.2	359.71 ug/L	359.71 ppb	21:41:48
3	Tl 190.801†	-53.4	-22.9	-5.8355 ug/L	-5.8355 ppb	21:42:08
3	U 409.014†	-2978.7	-829.1	-27.812 ug/L	-27.812 ppb	21:41:48
3	V 292.402†	3666.6	5320.7	38.464 ug/L	38.464 ppb	21:41:48
3	Zn 213.857†	5755.9	5080.8	52.088 ug/L	52.088 ppb	21:41:48
3	SiO2†	123813.0	125040.8	9289.2 ug/L	9289.2 ppb	21:42:24

Mean Data: 1202036251|950257|5

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	780610.7	98.747 %		0.9791			0.99%
Sc Radial	4865.0	100 %		0.7			0.70%
Y 371.029	706102.0	100.17 %		1.015			1.01%
Y RADIAL	5223.7	102.6 %		0.70			0.68%
Ag 328.068†	-858.9	-0.0178 ug/L		0.14549	-0.0178 ppb	0.14549	815.15%
Al 396.153Radial†	4577.8	4263.9 ug/L		13.41	4263.9 ppb	13.41	0.31%
As 188.979†	-1.0	5.7530 ug/L		0.14657	5.7530 ppb	0.14657	2.55%
B 249.677†	296.3	5.0108 ug/L		0.58795	5.0108 ppb	0.58795	11.73%
Ba 233.527†	21630.6	245.14 ug/L		0.526	245.14 ppb	0.526	0.21%
Be 313.107†	-1063.1	0.3990 ug/L		0.02163	0.3990 ppb	0.02163	5.42%
Ca 317.933Radial†	2560.9	4510.4 ug/L		36.25	4510.4 ppb	36.25	0.80%
Cd 226.502†	112.2	0.1756 ug/L		0.21847	0.1756 ppb	0.21847	124.41%
Co 228.616†	182.1	4.4548 ug/L		0.27665	4.4548 ppb	0.27665	6.21%
Cr 267.716†	1954.0	26.130 ug/L		0.2506	26.130 ppb	0.2506	0.96%
Cu 324.752†	17641.5	63.308 ug/L		0.2920	63.308 ppb	0.2920	0.46%
Fe 238.204 Radial†	1253.0	13222 ug/L		126.9	13222 ppb	126.9	0.96%
K 766.490 Radial†	5286.5	1011.3 ug/L		11.22	1011.3 ppb	11.22	1.11%

Mg 279.077 IEC†	53.1	2086.3 ug/L	84.40	2086.3 ppb	84.40	4.05%
Mn 257.610†	213354.8	328.48 ug/L	0.350	328.48 ppb	0.350	0.11%
Mo 202.031†	1.5	1.2185 ug/L	0.09008	1.2185 ppb	0.09008	7.39%
Na 589.592 Radial†	665.3	225.13 ug/L	6.780	225.13 ppb	6.780	3.01%
Ni 231.604†	504.7	15.730 ug/L	0.1072	15.730 ppb	0.1072	0.68%
P 214.914†	1257.7	659.43 ug/L	11.449	659.43 ppb	11.449	1.74%
Pb 220.353†	399.7	63.478 ug/L	1.3415	63.478 ppb	1.3415	2.11%
S 181.975 Axial†	80.9	103.03 ug/L	2.985	103.03 ppb	2.985	2.90%
Sb 206.836†	5.7	0.7763 ug/L	2.40628	0.7763 ppb	2.40628	309.97%
Se 196.026†	-44.7	3.7107 ug/L	2.02337	3.7107 ppb	2.02337	54.53%
Si 251.611†	123722.2	4282.1 ug/L	12.04	4282.1 ppb	12.04	0.28%
Sn 189.927†	-25.2	-5.7437 ug/L	0.45206	-5.7437 ppb	0.45206	7.87%
Sr 421.552†	4282.7	30.813 ug/L	0.1291	30.813 ppb	0.1291	0.42%
Ti 334.940†	188098.2	359.79 ug/L	0.320	359.79 ppb	0.320	0.09%
Tl 190.801†	-18.8	-4.0125 ug/L	3.25275	-4.0125 ppb	3.25275	81.07%
U 409.014†	-857.9	-28.737 ug/L	0.8861	-28.737 ppb	0.8861	3.08%
V 292.402†	5352.5	38.687 ug/L	0.1966	38.687 ppb	0.1966	0.51%
Zn 213.857†	5087.0	52.136 ug/L	0.3324	52.136 ppb	0.3324	0.64%
SiO2†	124868.8	9276.4 ug/L	217.96	9276.4 ppb	217.96	2.35%

Sequence No.: 37
 Sample ID: 246322002|950257|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 64
 Date Collected: 3/2/2010 21:44:34
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 246322002|950257|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4859.3	4859.3	100 %		21:46:27
1	Y RADIAL	5798.0	5798.0	113.9 %		21:46:27
1	Al 396.153Radial†	49984.3	50009.3	46580 ug/L	46580 ppb	21:46:27
1	Ca 317.933Radial†	22910.9	22867.7	40276 ug/L	40276 ppb	21:46:27
1	Fe 238.204 Radial†	9726.0	9705.4	102420 ug/L	102420 ppb	21:46:27
1	K 766.490 Radial†	35221.2	33013.9	6311.1 ug/L	6311.1 ppb	21:46:27
1	Mg 279.077 IEC†	310.2	306.8	12035 ug/L	12035 ppb	21:46:47
1	Na 589.592 Radial†	4679.3	5038.3	1704.8 ug/L	1704.8 ppb	21:46:27
1	Sr 421.552†	29935.0	29878.3	214.90 ug/L	214.90 ppb	21:46:27
1	Sc 361.383	799453.2	799453.2	101.13 %		21:47:45
1	Y 371.029	803123.9	803123.9	113.94 %		21:47:45
1	Ag 328.068†	-5649.8	-5794.7	3.3213 ug/L	3.3213 ppb	21:47:50
1	As 188.979†	2.7	31.0	64.487 ug/L	64.487 ppb	21:48:10
1	B 249.677†	483.0	962.7	6.5505 ug/L	6.5505 ppb	21:47:50
1	Ba 233.527†	63799.7	63092.3	717.08 ug/L	717.08 ppb	21:47:50
1	Be 313.107†	-17849.9	-7378.1	4.1688 ug/L	4.1688 ppb	21:47:50
1	Cd 226.502†	653.6	836.1	0.8841 ug/L	0.8841 ppb	21:48:10
1	Co 228.616†	1437.8	1487.6	35.559 ug/L	35.559 ppb	21:48:10
1	Cr 267.716†	6163.6	6032.3	81.925 ug/L	81.925 ppb	21:48:10
1	Cu 324.752†	29394.0	21350.2	81.246 ug/L	81.246 ppb	21:47:50
1	Mn 257.610†	1379094.3	1363247.2	2100.7 ug/L	2100.7 ppb	21:47:45
1	Mo 202.031†	97.7	88.5	16.334 ug/L	16.334 ppb	21:48:10
1	Ni 231.604†	1949.2	1858.9	57.925 ug/L	57.925 ppb	21:48:10
1	P 214.914†	5221.6	4942.3	2591.9 ug/L	2591.9 ppb	21:48:10
1	Pb 220.353†	411.5	468.3	78.023 ug/L	78.023 ppb	21:48:10
1	S 181.975 Axial†	331.9	280.9	351.85 ug/L	351.85 ppb	21:48:10
1	Sb 206.836†	50.1	15.5	-6.5344 ug/L	-6.5344 ppb	21:48:10
1	Se 196.026†	-356.1	-330.2	39.599 ug/L	39.599 ppb	21:48:10
1	Si 251.611†	856086.7	845982.8	29280 ug/L	29280 ppb	21:47:45
1	Sn 189.927†	-137.8	-142.0	-31.350 ug/L	-31.350 ppb	21:48:10
1	Ti 334.940†	1645443.3	1628176.0	3115.0 ug/L	3115.0 ppb	21:47:45
1	Tl 190.801†	-132.4	-99.7	-9.5129 ug/L	-9.5129 ppb	21:48:10
1	U 409.014†	-6403.0	-4139.7	-142.97 ug/L	-142.97 ppb	21:47:50
1	V 292.402†	20411.4	21785.5	148.78 ug/L	148.78 ppb	21:47:50
1	Zn 213.857†	25872.9	24827.3	249.21 ug/L	249.21 ppb	21:47:50
1	SiO2†	854033.1	843963.6	62697 ug/L	62697 ppb	21:49:18
2	Sc Radial	4730.4	4730.4	97.5 %		21:46:52
2	Y RADIAL	5682.5	5682.5	111.6 %		21:46:52
2	Al 396.153Radial†	50815.7	52222.9	48642 ug/L	48642 ppb	21:46:52
2	Ca 317.933Radial†	23218.9	23807.3	41931 ug/L	41931 ppb	21:46:52
2	Fe 238.204 Radial†	9838.6	10085.7	106430 ug/L	106430 ppb	21:46:52
2	K 766.490 Radial†	35551.1	34311.0	6559.1 ug/L	6559.1 ppb	21:46:52
2	Mg 279.077 IEC†	305.7	310.6	12180 ug/L	12180 ppb	21:47:12
2	Na 589.592 Radial†	4736.8	5224.6	1767.8 ug/L	1767.8 ppb	21:46:52
2	Sr 421.552†	30471.3	31243.3	224.72 ug/L	224.72 ppb	21:46:52
2	Sc 361.383	810846.1	810846.1	102.57 %		21:48:16
2	Y 371.029	814022.6	814022.6	115.48 %		21:48:16
2	Ag 328.068†	-5542.9	-5612.0	5.4030 ug/L	5.4030 ppb	21:48:21
2	As 188.979†	1.4	29.6	64.869 ug/L	64.869 ppb	21:48:41
2	B 249.677†	500.9	973.5	6.1605 ug/L	6.1605 ppb	21:48:21
2	Ba 233.527†	63407.3	61823.3	702.85 ug/L	702.85 ppb	21:48:21
2	Be 313.107†	-17783.0	-7064.9	4.2966 ug/L	4.2966 ppb	21:48:21
2	Cd 226.502†	646.0	819.6	0.2449 ug/L	0.2449 ppb	21:48:41
2	Co 228.616†	1446.6	1476.2	35.159 ug/L	35.159 ppb	21:48:41
2	Cr 267.716†	6147.2	5930.7	80.650 ug/L	80.650 ppb	21:48:41
2	Cu 324.752†	29218.6	20770.8	79.395 ug/L	79.395 ppb	21:48:21
2	Mn 257.610†	1397286.9	1361823.0	2098.9 ug/L	2098.9 ppb	21:48:16
2	Mo 202.031†	94.6	84.1	16.273 ug/L	16.273 ppb	21:48:41
2	Ni 231.604†	1918.6	1802.0	56.151 ug/L	56.151 ppb	21:48:41

2	P 214.914†	5201.8	4850.4	2539.7 ug/L	2539.7 ppb	21:48:41
2	Pb 220.353†	413.9	464.9	77.690 ug/L	77.690 ppb	21:48:41
2	S 181.975 Axial†	326.8	271.3	339.14 ug/L	339.14 ppb	21:48:41
2	Sb 206.836†	60.1	24.6	-3.1911 ug/L	-3.1911 ppb	21:48:41
2	Se 196.026†	-375.4	-344.2	40.578 ug/L	40.578 ppb	21:48:41
2	Si 251.611†	868171.8	845870.8	29276 ug/L	29276 ppb	21:48:16
2	Sn 189.927†	-146.1	-148.2	-32.703 ug/L	-32.703 ppb	21:48:41
2	Ti 334.940†	1670063.0	1629317.2	3117.4 ug/L	3117.4 ppb	21:48:16
2	Tl 190.801†	-134.6	-99.9	-9.6209 ug/L	-9.6209 ppb	21:48:41
2	U 409.014†	-6077.6	-3733.5	-130.55 ug/L	-130.55 ppb	21:48:21
2	V 292.402†	20242.9	21337.7	144.79 ug/L	144.79 ppb	21:48:21
2	Zn 213.857†	25651.6	24252.0	242.48 ug/L	242.48 ppb	21:48:21
2	SiO2†	858879.8	836823.2	62167 ug/L	62167 ppb	21:49:24
3	Sc Radial	4933.5	4933.5	102 %		21:47:17
3	Y RADIAL	5871.1	5871.1	115.3 %		21:47:17
3	Al 396.153Radial†	50548.6	49814.0	46398 ug/L	46398 ppb	21:47:17
3	Ca 317.933Radial†	23136.2	22745.3	40060 ug/L	40060 ppb	21:47:17
3	Fe 238.204 Radial†	9793.6	9625.9	101580 ug/L	101580 ppb	21:47:17
3	K 766.490 Radial†	35422.3	32682.9	6247.8 ug/L	6247.8 ppb	21:47:17
3	Mg 279.077 IEC†	305.0	297.0	11648 ug/L	11648 ppb	21:47:37
3	Na 589.592 Radial†	4659.9	4948.8	1674.5 ug/L	1674.5 ppb	21:47:17
3	Sr 421.552†	30238.3	29727.2	213.82 ug/L	213.82 ppb	21:47:17
3	Sc 361.383	805459.8	805459.8	101.89 %		21:48:47
3	Y 371.029	808606.9	808606.9	114.71 %		21:48:47
3	Ag 328.068†	-5841.8	-5941.5	2.3504 ug/L	2.3504 ppb	21:48:52
3	As 188.979†	8.2	36.4	66.709 ug/L	66.709 ppb	21:49:12
3	B 249.677†	556.1	1030.9	8.3372 ug/L	8.3372 ppb	21:48:52
3	Ba 233.527†	65206.4	64002.5	727.36 ug/L	727.36 ppb	21:48:52
3	Be 313.107†	-18180.2	-7570.7	4.1065 ug/L	4.1065 ppb	21:48:52
3	Cd 226.502†	637.5	815.5	0.6877 ug/L	0.6877 ppb	21:49:12
3	Co 228.616†	1443.6	1482.7	35.423 ug/L	35.423 ppb	21:49:12
3	Cr 267.716†	6133.6	5957.4	80.920 ug/L	80.920 ppb	21:49:12
3	Cu 324.752†	30192.2	21916.8	83.208 ug/L	83.208 ppb	21:48:52
3	Mn 257.610†	1390143.1	1363921.6	2101.6 ug/L	2101.6 ppb	21:48:47
3	Mo 202.031†	101.8	91.8	16.561 ug/L	16.561 ppb	21:49:12
3	Ni 231.604†	1913.5	1809.5	56.385 ug/L	56.385 ppb	21:49:12
3	P 214.914†	5179.1	4862.1	2548.6 ug/L	2548.6 ppb	21:49:12
3	Pb 220.353†	411.0	464.8	77.486 ug/L	77.486 ppb	21:49:12
3	S 181.975 Axial†	323.4	270.2	338.10 ug/L	338.10 ppb	21:49:12
3	Sb 206.836†	68.4	33.2	0.2441 ug/L	0.2441 ppb	21:49:12
3	Se 196.026†	-373.4	-344.7	29.226 ug/L	29.226 ppb	21:49:12
3	Si 251.611†	864413.8	847842.7	29344 ug/L	29344 ppb	21:48:47
3	Sn 189.927†	-136.0	-139.2	-30.688 ug/L	-30.688 ppb	21:49:12
3	Ti 334.940†	1660909.2	1631221.5	3120.9 ug/L	3120.9 ppb	21:48:47
3	Tl 190.801†	-138.3	-104.5	-11.613 ug/L	-11.613 ppb	21:49:12
3	U 409.014†	-6265.6	-3957.7	-137.10 ug/L	-137.10 ppb	21:48:52
3	V 292.402†	20833.8	22049.6	150.93 ug/L	150.93 ppb	21:48:52
3	Zn 213.857†	26290.2	25046.1	251.68 ug/L	251.68 ppb	21:48:52
3	SiO2†	857005.6	840583.4	62446 ug/L	62446 ppb	21:49:30

Mean Data: 246322002|950257|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	805253.0	101.86 %	0.721			0.71%
Sc Radial	4841.1	99.7 %	2.12			2.12%
Y 371.029	808584.5	114.71 %	0.773			0.67%
Y RADIAL	5783.8	113.6 %	1.87			1.64%
Ag 328.068†	-5782.7	3.6916 ug/L	1.55963	3.6916 ppb	1.55963	42.25%
Al 396.153Radial†	50682.1	47207 ug/L	1246.3	47207 ppb	1246.3	2.64%
As 188.979†	32.3	65.355 ug/L	1.1879	65.355 ppb	1.1879	1.82%
B 249.677†	989.1	7.0161 ug/L	1.16065	7.0161 ppb	1.16065	16.54%
Ba 233.527†	62972.7	715.76 ug/L	12.309	715.76 ppb	12.309	1.72%
Be 313.107†	-7337.9	4.1906 ug/L	0.09690	4.1906 ppb	0.09690	2.31%
Ca 317.933Radial†	23140.1	40756 ug/L	1023.4	40756 ppb	1023.4	2.51%
Cd 226.502†	823.7	0.6056 ug/L	0.32744	0.6056 ppb	0.32744	54.07%
Co 228.616†	1482.2	35.380 ug/L	0.2037	35.380 ppb	0.2037	0.58%
Cr 267.716†	5973.5	81.165 ug/L	0.6721	81.165 ppb	0.6721	0.83%
Cu 324.752†	21346.0	81.283 ug/L	1.9068	81.283 ppb	1.9068	2.35%
Fe 238.204 Radial†	9805.6	103480 ug/L	2593.2	103480 ppb	2593.2	2.51%
K 766.490 Radial†	33335.9	6372.6 ug/L	164.53	6372.6 ppb	164.53	2.58%

Mg 279.077 IEC†	304.8	11954 ug/L	275.2	11954 ppb	275.2	2.30%
Mn 257.610†	1362997.2	2100.4 ug/L	1.40	2100.4 ppb	1.40	0.07%
Mo 202.031†	88.1	16.389 ug/L	0.1517	16.389 ppb	0.1517	0.93%
Na 589.592 Radial†	5070.6	1715.7 ug/L	47.60	1715.7 ppb	47.60	2.77%
Ni 231.604†	1823.5	56.820 ug/L	0.9639	56.820 ppb	0.9639	1.70%
P 214.914†	4884.9	2560.1 ug/L	27.89	2560.1 ppb	27.89	1.09%
Pb 220.353†	466.0	77.733 ug/L	0.2714	77.733 ppb	0.2714	0.35%
S 181.975 Axial†	274.1	343.03 ug/L	7.660	343.03 ppb	7.660	2.23%
Sb 206.836†	24.4	-3.1605 ug/L	3.38932	-3.1605 ppb	3.38932	107.24%
Se 196.026†	-339.7	36.468 ug/L	6.2906	36.468 ppb	6.2906	17.25%
Si 251.611†	846565.4	29300 ug/L	38.3	29300 ppb	38.3	0.13%
Sn 189.927†	-143.2	-31.580 ug/L	1.0270	-31.580 ppb	1.0270	3.25%
Sr 421.552†	30283.0	217.82 ug/L	6.008	217.82 ppb	6.008	2.76%
Ti 334.940†	1629571.6	3117.8 ug/L	2.93	3117.8 ppb	2.93	0.09%
Tl 190.801†	-101.4	-10.249 ug/L	1.1825	-10.249 ppb	1.1825	11.54%
U 409.014†	-3943.6	-136.87 ug/L	6.210	-136.87 ppb	6.210	4.54%
V 292.402†	21724.2	148.17 ug/L	3.118	148.17 ppb	3.118	2.10%
Zn 213.857†	24708.5	247.79 ug/L	4.759	247.79 ppb	4.759	1.92%
SiO2†	840456.7	62437 ug/L	265.3	62437 ppb	265.3	0.42%

Sequence No.: 38
 Sample ID: 246322003|950257|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 65
 Date Collected: 3/2/2010 21:51:43
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 246322003|950257|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4784.9	4784.9	98.6 %		21:53:35
1	Y RADIAL	5163.2	5163.2	101.4 %		21:53:35
1	Al 396.153Radial†	10546.6	10783.6	10044 ug/L	10044 ppb	21:53:35
1	Ca 317.933Radial†	7262.0	7350.6	12946 ug/L	12946 ppb	21:53:35
1	Fe 238.204 Radial†	2890.3	2923.0	30845 ug/L	30845 ppb	21:53:55
1	K 766.490 Radial†	13417.2	11444.9	2188.2 ug/L	2188.2 ppb	21:53:35
1	Mg 279.077 IEC†	114.3	112.9	4436.2 ug/L	4436.2 ppb	21:53:55
1	Na 589.592 Radial†	2002.5	2395.8	810.64 ug/L	810.64 ppb	21:53:35
1	Sr 421.552†	7220.2	7303.3	52.507 ug/L	52.507 ppb	21:53:35
1	Sc 361.383	776830.5	776830.5	98.269 %		21:54:53
1	Y 371.029	709853.5	709853.5	100.70 %		21:54:53
1	Ag 328.068†	-1602.2	-1838.5	0.5572 ug/L	0.5572 ppb	21:54:53
1	As 188.979†	-40.2	-12.6	9.3130 ug/L	9.3130 ppb	21:55:13
1	B 249.677†	-182.5	299.4	2.2069 ug/L	2.2069 ppb	21:54:53
1	Ba 233.527†	18727.2	19062.8	216.68 ug/L	216.68 ppb	21:54:53
1	Be 313.107†	-12900.0	-2855.0	0.8721 ug/L	0.8721 ppb	21:54:53
1	Cd 226.502†	57.9	248.7	0.2372 ug/L	0.2372 ppb	21:55:13
1	Co 228.616†	314.1	385.5	8.9918 ug/L	8.9918 ppb	21:55:13
1	Cr 267.716†	4648.1	4667.6	62.334 ug/L	62.334 ppb	21:54:53
1	Cu 324.752†	25572.7	18308.1	66.604 ug/L	66.604 ppb	21:54:53
1	Mn 257.610†	303951.6	308874.1	476.63 ug/L	476.63 ppb	21:54:53
1	Mo 202.031†	-9.5	-17.8	0.9564 ug/L	0.9564 ppb	21:55:13
1	Ni 231.604†	1138.2	1089.8	33.967 ug/L	33.967 ppb	21:55:13
1	P 214.914†	2869.7	2699.3	1427.3 ug/L	1427.3 ppb	21:55:13
1	Pb 220.353†	183.4	248.0	39.492 ug/L	39.492 ppb	21:55:13
1	S 181.975 Axial†	120.9	75.8	95.362 ug/L	95.362 ppb	21:55:13
1	Sb 206.836†	42.9	9.6	0.1168 ug/L	0.1168 ppb	21:55:13
1	Se 196.026†	-129.8	-110.3	5.1715 ug/L	5.1715 ppb	21:55:13
1	Si 251.611†	385982.3	392247.7	13576 ug/L	13576 ppb	21:54:53
1	Sn 189.927†	-57.6	-64.4	-14.262 ug/L	-14.262 ppb	21:55:13
1	Ti 334.940†	450119.4	459174.1	878.60 ug/L	878.60 ppb	21:54:53
1	Tl 190.801†	-62.6	-32.4	-5.2076 ug/L	-5.2076 ppb	21:55:13
1	U 409.014†	-2903.1	-762.5	-27.805 ug/L	-27.805 ppb	21:54:53
1	V 292.402†	6071.3	7780.5	54.190 ug/L	54.190 ppb	21:54:53
1	Zn 213.857†	9261.4	8668.1	87.605 ug/L	87.605 ppb	21:54:53
1	SiO2†	390806.1	397167.9	29505 ug/L	29505 ppb	21:56:09
2	Sc Radial	4837.4	4837.4	99.7 %		21:54:00
2	Y RADIAL	5242.7	5242.7	103.0 %		21:54:00
2	Al 396.153Radial†	10600.5	10721.4	9986.4 ug/L	9986.4 ppb	21:54:00
2	Ca 317.933Radial†	7342.7	7351.6	12948 ug/L	12948 ppb	21:54:00
2	Fe 238.204 Radial†	2868.8	2869.5	30281 ug/L	30281 ppb	21:54:21
2	K 766.490 Radial†	13597.4	11477.9	2194.6 ug/L	2194.6 ppb	21:54:00
2	Mg 279.077 IEC†	116.6	113.9	4477.7 ug/L	4477.7 ppb	21:54:21
2	Na 589.592 Radial†	2021.0	2392.3	809.46 ug/L	809.46 ppb	21:54:00
2	Sr 421.552†	7242.1	7245.8	52.093 ug/L	52.093 ppb	21:54:00
2	Sc 361.383	782189.7	782189.7	98.947 %		21:55:18
2	Y 371.029	713142.5	713142.5	101.17 %		21:55:18
2	Ag 328.068†	-1638.4	-1863.9	0.2627 ug/L	0.2627 ppb	21:55:18
2	As 188.979†	-33.8	-5.8	12.138 ug/L	12.138 ppb	21:55:38
2	B 249.677†	-184.4	298.8	2.2841 ug/L	2.2841 ppb	21:55:18
2	Ba 233.527†	18770.6	18976.1	215.68 ug/L	215.68 ppb	21:55:18
2	Be 313.107†	-12957.9	-2823.6	0.8811 ug/L	0.8811 ppb	21:55:18
2	Cd 226.502†	59.5	250.0	0.3119 ug/L	0.3119 ppb	21:55:38
2	Co 228.616†	319.8	389.0	9.1072 ug/L	9.1072 ppb	21:55:38
2	Cr 267.716†	4725.9	4713.8	62.934 ug/L	62.934 ppb	21:55:18
2	Cu 324.752†	25578.2	18135.3	65.963 ug/L	65.963 ppb	21:55:18
2	Mn 257.610†	305272.8	308090.1	475.37 ug/L	475.37 ppb	21:55:18
2	Mo 202.031†	1.9	-6.2	1.9532 ug/L	1.9532 ppb	21:55:38
2	Ni 231.604†	1150.3	1094.1	34.100 ug/L	34.100 ppb	21:55:38

2	P 214.914†	2848.0	2657.4	1405.2 ug/L	1405.2 ppb	21:55:38
2	Pb 220.353†	173.9	237.1	37.801 ug/L	37.801 ppb	21:55:38
2	S 181.975 Axial†	119.6	73.6	92.599 ug/L	92.599 ppb	21:55:38
2	Sb 206.836†	47.1	13.6	1.7467 ug/L	1.7467 ppb	21:55:38
2	Se 196.026†	-114.2	-93.6	13.737 ug/L	13.737 ppb	21:55:38
2	Si 251.611†	388402.2	392002.2	13568 ug/L	13568 ppb	21:55:18
2	Sn 189.927†	-41.1	-47.3	-10.295 ug/L	-10.295 ppb	21:55:38
2	Ti 334.940†	452464.2	458405.5	877.13 ug/L	877.13 ppb	21:55:18
2	Tl 190.801†	-63.1	-32.6	-5.2778 ug/L	-5.2778 ppb	21:55:38
2	U 409.014†	-3021.3	-861.7	-30.884 ug/L	-30.884 ppb	21:55:18
2	V 292.402†	6132.6	7800.1	54.433 ug/L	54.433 ppb	21:55:18
2	Zn 213.857†	9245.3	8587.3	86.826 ug/L	86.826 ppb	21:55:18
2	SiO2†	391680.2	395326.6	29369 ug/L	29369 ppb	21:56:14
3	Sc Radial	4905.5	4905.5	101 %		21:54:26
3	Y RADIAL	5298.7	5298.7	104.1 %		21:54:26
3	Al 396.153Radial†	10793.2	10764.4	10026 ug/L	10026 ppb	21:54:26
3	Ca 317.933Radial†	7435.5	7341.2	12930 ug/L	12930 ppb	21:54:26
3	Fe 238.204 Radial†	2868.6	2829.4	29858 ug/L	29858 ppb	21:54:46
3	K 766.490 Radial†	13559.4	11250.9	2151.1 ug/L	2151.1 ppb	21:54:26
3	Mg 279.077 IEC†	122.0	117.7	4626.2 ug/L	4626.2 ppb	21:54:46
3	Na 589.592 Radial†	2021.8	2364.9	800.19 ug/L	800.19 ppb	21:54:26
3	Sr 421.552†	7370.0	7271.5	52.278 ug/L	52.278 ppb	21:54:26
3	Sc 361.383	781504.5	781504.5	98.860 %		21:55:44
3	Y 371.029	712740.7	712740.7	101.11 %		21:55:44
3	Ag 328.068†	-1556.1	-1782.1	0.5366 ug/L	0.5366 ppb	21:55:44
3	As 188.979†	-38.3	-10.4	10.024 ug/L	10.024 ppb	21:56:04
3	B 249.677†	-173.8	309.3	2.6079 ug/L	2.6079 ppb	21:55:44
3	Ba 233.527†	18743.2	18965.1	215.54 ug/L	215.54 ppb	21:55:44
3	Be 313.107†	-12845.1	-2721.0	0.9219 ug/L	0.9219 ppb	21:55:44
3	Cd 226.502†	66.1	256.7	0.4465 ug/L	0.4465 ppb	21:56:04
3	Co 228.616†	308.7	378.1	8.7913 ug/L	8.7913 ppb	21:56:04
3	Cr 267.716†	4703.6	4695.5	62.686 ug/L	62.686 ppb	21:55:44
3	Cu 324.752†	25523.7	18102.8	65.828 ug/L	65.828 ppb	21:55:44
3	Mn 257.610†	305122.9	308209.0	475.51 ug/L	475.51 ppb	21:55:44
3	Mo 202.031†	-12.3	-20.6	0.6353 ug/L	0.6353 ppb	21:56:04
3	Ni 231.604†	1138.2	1082.8	33.750 ug/L	33.750 ppb	21:56:04
3	P 214.914†	2847.8	2659.6	1406.8 ug/L	1406.8 ppb	21:56:04
3	Pb 220.353†	207.8	271.6	43.308 ug/L	43.308 ppb	21:56:04
3	S 181.975 Axial†	115.5	69.6	87.409 ug/L	87.409 ppb	21:56:04
3	Sb 206.836†	43.2	9.7	0.2371 ug/L	0.2371 ppb	21:56:04
3	Se 196.026†	-124.5	-104.0	6.6220 ug/L	6.6220 ppb	21:56:04
3	Si 251.611†	387239.2	391169.9	13539 ug/L	13539 ppb	21:55:44
3	Sn 189.927†	-40.0	-46.2	-10.026 ug/L	-10.026 ppb	21:56:04
3	Ti 334.940†	452197.2	458536.4	877.37 ug/L	877.37 ppb	21:55:44
3	Tl 190.801†	-64.1	-33.6	-5.7565 ug/L	-5.7565 ppb	21:56:04
3	U 409.014†	-3130.8	-975.2	-34.428 ug/L	-34.428 ppb	21:55:44
3	V 292.402†	6128.4	7801.3	54.482 ug/L	54.482 ppb	21:55:44
3	Zn 213.857†	9245.9	8596.1	86.986 ug/L	86.986 ppb	21:55:44
3	SiO2†	391736.8	395730.8	29399 ug/L	29399 ppb	21:56:20

Mean Data: 246322003|950257|1

	Mean Corrected	Calib.		Sample		
Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	780174.9	98.692 %	0.3689			0.37%
Sc Radial	4842.6	99.8 %	1.25			1.25%
Y 371.029	711912.2	101.00 %	0.255			0.25%
Y RADIAL	5234.9	102.8 %	1.34			1.30%
Ag 328.068†	-1828.1	0.4522 ug/L	0.16439	0.4522 ppb	0.16439	36.35%
Al 396.153Radial†	10756.5	10019 ug/L	29.7	10019 ppb	29.7	0.30%
As 188.979†	-9.6	10.491 ug/L	1.4694	10.491 ppb	1.4694	14.01%
B 249.677†	302.5	2.3663 ug/L	0.21276	2.3663 ppb	0.21276	8.99%
Ba 233.527†	19001.3	215.97 ug/L	0.620	215.97 ppb	0.620	0.29%
Be 313.107†	-2799.8	0.8917 ug/L	0.02653	0.8917 ppb	0.02653	2.98%
Ca 317.933Radial†	7347.8	12941 ug/L	10.1	12941 ppb	10.1	0.08%
Cd 226.502†	251.8	0.3319 ug/L	0.10609	0.3319 ppb	0.10609	31.97%
Co 228.616†	384.2	8.9634 ug/L	0.15985	8.9634 ppb	0.15985	1.78%
Cr 267.716†	4692.3	62.651 ug/L	0.3018	62.651 ppb	0.3018	0.48%
Cu 324.752†	18182.1	66.132 ug/L	0.4148	66.132 ppb	0.4148	0.63%
Fe 238.204 Radial†	2874.0	30328 ug/L	495.2	30328 ppb	495.2	1.63%
K 766.490 Radial†	11391.2	2177.9 ug/L	23.50	2177.9 ppb	23.50	1.08%

Mg 279.077 IEC†	114.9	4513.4 ug/L	99.88	4513.4 ppb	99.88	2.21%
Mn 257.610†	308391.1	475.84 ug/L	0.692	475.84 ppb	0.692	0.15%
Mo 202.031†	-14.9	1.1816 ug/L	0.68722	1.1816 ppb	0.68722	58.16%
Na 589.592 Radial†	2384.3	806.76 ug/L	5.723	806.76 ppb	5.723	0.71%
Ni 231.604†	1088.9	33.939 ug/L	0.1768	33.939 ppb	0.1768	0.52%
P 214.914†	2672.1	1413.1 ug/L	12.33	1413.1 ppb	12.33	0.87%
Pb 220.353†	252.2	40.200 ug/L	2.8209	40.200 ppb	2.8209	7.02%
S 181.975 Axial†	73.0	91.790 ug/L	4.0377	91.790 ppb	4.0377	4.40%
Sb 206.836†	11.0	0.7002 ug/L	0.90827	0.7002 ppb	0.90827	129.71%
Se 196.026†	-102.6	8.5103 ug/L	4.58452	8.5103 ppb	4.58452	53.87%
Si 251.611†	391806.6	13561 ug/L	19.5	13561 ppb	19.5	0.14%
Sn 189.927†	-52.6	-11.528 ug/L	2.3721	-11.528 ppb	2.3721	20.58%
Sr 421.552†	7273.5	52.293 ug/L	0.2075	52.293 ppb	0.2075	0.40%
Ti 334.940†	458705.3	877.70 ug/L	0.789	877.70 ppb	0.789	0.09%
Tl 190.801†	-32.9	-5.4140 ug/L	0.29872	-5.4140 ppb	0.29872	5.52%
U 409.014†	-866.5	-31.039 ug/L	3.3145	-31.039 ppb	3.3145	10.68%
V 292.402†	7794.0	54.368 ug/L	0.1563	54.368 ppb	0.1563	0.29%
Zn 213.857†	8617.2	87.139 ug/L	0.4112	87.139 ppb	0.4112	0.47%
SiO2†	396075.1	29424 ug/L	71.9	29424 ppb	71.9	0.24%

Sequence No.: 39

Sample ID: 246322004|950257|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 66

Date Collected: 3/2/2010 21:58:30

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246322004|950257|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4826.7	4826.7	99.4 %		22:00:24
1	Y RADIAL	5469.6	5469.6	107.4 %		22:00:24
1	Al 396.153Radial†	28317.1	28559.8	26602 ug/L	26602 ppb	22:00:24
1	Ca 317.933Radial†	33675.7	33846.9	59613 ug/L	59613 ppb	22:00:24
1	Fe 238.204 Radial†	6878.2	6907.6	72894 ug/L	72894 ppb	22:00:24
1	K 766.490 Radial†	28127.3	26118.7	4984.0 ug/L	4984.0 ppb	22:00:24
1	Mg 279.077 IEC†	276.5	275.0	10807 ug/L	10807 ppb	22:00:44
1	Na 589.592 Radial†	2235.8	2612.8	884.08 ug/L	884.08 ppb	22:00:24
1	Sr 421.552†	27348.0	27479.2	197.48 ug/L	197.48 ppb	22:00:24
1	Sc 361.383	797340.8	797340.8	100.86 %		22:01:41
1	Y 371.029	756715.5	756715.5	107.35 %		22:01:41
1	Ag 328.068†	-4141.0	-4313.6	1.1157 ug/L	1.1157 ppb	22:01:41
1	As 188.979†	-39.0	-10.3	28.566 ug/L	28.566 ppb	22:02:01
1	B 249.677†	128.3	612.3	2.8513 ug/L	2.8513 ppb	22:01:41
1	Ba 233.527†	54613.5	54151.8	615.00 ug/L	615.00 ppb	22:01:41
1	Be 313.107†	-15390.7	-4986.7	2.2418 ug/L	2.2418 ppb	22:01:41
1	Cd 226.502†	397.0	583.4	0.4619 ug/L	0.4619 ppb	22:02:01
1	Co 228.616†	1571.3	1623.7	42.522 ug/L	42.522 ppb	22:02:01
1	Cr 267.716†	4285.2	4186.2	56.931 ug/L	56.931 ppb	22:02:01
1	Cu 324.752†	18699.8	10824.5	42.332 ug/L	42.332 ppb	22:01:41
1	Mn 257.610†	833532.9	825967.2	1273.7 ug/L	1273.7 ppb	22:01:41
1	Mo 202.031†	-18.9	-26.8	3.9721 ug/L	3.9721 ppb	22:02:01
1	Ni 231.604†	1316.7	1236.9	38.533 ug/L	38.533 ppb	22:02:01
1	P 214.914†	3809.8	3556.2	1866.9 ug/L	1866.9 ppb	22:02:01
1	Pb 220.353†	154.3	214.3	35.470 ug/L	35.470 ppb	22:02:01
1	S 181.975 Axial†	198.3	149.4	186.74 ug/L	186.74 ppb	22:02:01
1	Sb 206.836†	57.3	22.9	0.8077 ug/L	0.8077 ppb	22:02:01
1	Se 196.026†	-264.0	-239.9	24.662 ug/L	24.662 ppb	22:02:01
1	Si 251.611†	742349.6	735461.7	25455 ug/L	25455 ppb	22:01:41
1	Sn 189.927†	-192.4	-196.5	-38.736 ug/L	-38.736 ppb	22:02:01
1	Ti 334.940†	974913.1	967694.3	1855.9 ug/L	1855.9 ppb	22:01:41
1	Tl 190.801†	-89.8	-57.8	-5.0448 ug/L	-5.0448 ppb	22:02:01
1	U 409.014†	-6084.5	-3840.7	-130.07 ug/L	-130.07 ppb	22:01:41
1	V 292.402†	16551.4	18012.0	125.36 ug/L	125.36 ppb	22:01:41
1	Zn 213.857†	14199.3	13321.4	130.99 ug/L	130.99 ppb	22:01:41
1	SiO2†	727024.8	720279.5	53509 ug/L	53509 ppb	22:02:59
2	Sc Radial	4678.4	4678.4	96.4 %		22:00:49
2	Y RADIAL	5354.8	5354.8	105.2 %		22:00:49
2	Al 396.153Radial†	28416.9	29566.1	27539 ug/L	27539 ppb	22:00:49
2	Ca 317.933Radial†	33855.9	35107.4	61833 ug/L	61833 ppb	22:00:49
2	Fe 238.204 Radial†	6880.2	7128.9	75229 ug/L	75229 ppb	22:00:49
2	K 766.490 Radial†	28085.1	26971.6	5146.7 ug/L	5146.7 ppb	22:00:49
2	Mg 279.077 IEC†	268.2	275.2	10812 ug/L	10812 ppb	22:01:09
2	Na 589.592 Radial†	2241.8	2690.3	910.31 ug/L	910.31 ppb	22:00:49
2	Sr 421.552†	27214.3	28212.5	202.74 ug/L	202.74 ppb	22:00:49
2	Sc 361.383	774139.6	774139.6	97.928 %		22:02:07
2	Y 371.029	735541.0	735541.0	104.35 %		22:02:07
2	Ag 328.068†	-4021.2	-4314.3	1.8107 ug/L	1.8107 ppb	22:02:07
2	As 188.979†	-25.9	1.9	34.725 ug/L	34.725 ppb	22:02:27
2	B 249.677†	194.7	684.0	4.2049 ug/L	4.2049 ppb	22:02:07
2	Ba 233.527†	53829.9	54974.4	624.38 ug/L	624.38 ppb	22:02:07
2	Be 313.107†	-15244.0	-5294.2	2.1913 ug/L	2.1913 ppb	22:02:07
2	Cd 226.502†	397.6	595.8	0.3901 ug/L	0.3901 ppb	22:02:27
2	Co 228.616†	1545.2	1643.7	43.012 ug/L	43.012 ppb	22:02:27
2	Cr 267.716†	4267.3	4295.1	58.419 ug/L	58.419 ppb	22:02:27
2	Cu 324.752†	18349.4	11022.3	43.160 ug/L	43.160 ppb	22:02:07
2	Mn 257.610†	821415.4	838360.7	1292.9 ug/L	1292.9 ppb	22:02:07
2	Mo 202.031†	-11.1	-19.5	4.8362 ug/L	4.8362 ppb	22:02:27
2	Ni 231.604†	1293.4	1252.3	39.012 ug/L	39.012 ppb	22:02:27

2	P 214.914†	3790.2	3649.5	1915.6 ug/L	1915.6 ppb	22:02:27
2	Pb 220.353†	150.6	215.1	35.670 ug/L	35.670 ppb	22:02:27
2	S 181.975 Axial†	186.3	143.0	178.42 ug/L	178.42 ppb	22:02:27
2	Sb 206.836†	48.3	15.3	-2.2011 ug/L	-2.2011 ppb	22:02:27
2	Se 196.026†	-262.8	-246.5	26.119 ug/L	26.119 ppb	22:02:27
2	Si 251.611†	731408.0	746346.7	25832 ug/L	25832 ppb	22:02:07
2	Sn 189.927†	-184.8	-194.4	-37.989 ug/L	-37.989 ppb	22:02:27
2	Ti 334.940†	962350.9	983834.8	1887.0 ug/L	1887.0 ppb	22:02:07
2	Tl 190.801†	-103.6	-74.6	-12.261 ug/L	-12.261 ppb	22:02:27
2	U 409.014†	-6056.2	-3992.6	-135.16 ug/L	-135.16 ppb	22:02:07
2	V 292.402†	16278.4	18225.0	126.62 ug/L	126.62 ppb	22:02:07
2	Zn 213.857†	13997.3	13537.0	132.94 ug/L	132.94 ppb	22:02:07
2	SiO2†	736190.1	751241.4	55809 ug/L	55809 ppb	22:03:04
3	Sc Radial	4810.9	4810.9	99.1 %		22:01:14
3	Y RADIAL	5422.8	5422.8	106.5 %		22:01:14
3	Al 396.153Radial†	28169.4	28504.5	26550 ug/L	26550 ppb	22:01:14
3	Ca 317.933Radial†	33375.2	33655.0	59275 ug/L	59275 ppb	22:01:14
3	Fe 238.204 Radial†	6788.9	6840.2	72182 ug/L	72182 ppb	22:01:14
3	K 766.490 Radial†	27875.5	25957.6	4953.3 ug/L	4953.3 ppb	22:01:14
3	Mg 279.077 IEC†	270.6	269.9	10607 ug/L	10607 ppb	22:01:34
3	Na 589.592 Radial†	2202.0	2586.1	875.03 ug/L	875.03 ppb	22:01:14
3	Sr 421.552†	26974.8	27193.1	195.42 ug/L	195.42 ppb	22:01:14
3	Sc 361.383	795205.0	795205.0	100.59 %		22:02:33
3	Y 371.029	755998.8	755998.8	107.25 %		22:02:33
3	Ag 328.068†	-4256.0	-4438.9	0.2907 ug/L	0.2907 ppb	22:02:33
3	As 188.979†	-32.9	-4.4	31.162 ug/L	31.162 ppb	22:02:53
3	B 249.677†	169.3	653.5	3.9653 ug/L	3.9653 ppb	22:02:33
3	Ba 233.527†	54660.4	54343.9	617.15 ug/L	617.15 ppb	22:02:33
3	Be 313.107†	-15575.6	-5211.5	2.1908 ug/L	2.1908 ppb	22:02:33
3	Cd 226.502†	391.3	578.8	0.4713 ug/L	0.4713 ppb	22:02:53
3	Co 228.616†	1530.1	1586.9	41.433 ug/L	41.433 ppb	22:02:53
3	Cr 267.716†	4252.2	4164.7	56.635 ug/L	56.635 ppb	22:02:53
3	Cu 324.752†	18809.6	10983.5	42.859 ug/L	42.859 ppb	22:02:33
3	Mn 257.610†	835494.0	830136.2	1280.0 ug/L	1280.0 ppb	22:02:33
3	Mo 202.031†	-12.5	-20.6	4.4719 ug/L	4.4719 ppb	22:02:53
3	Ni 231.604†	1307.6	1231.4	38.361 ug/L	38.361 ppb	22:02:53
3	P 214.914†	3759.3	3516.1	1845.6 ug/L	1845.6 ppb	22:02:53
3	Pb 220.353†	168.6	229.0	37.836 ug/L	37.836 ppb	22:02:53
3	S 181.975 Axial†	190.4	142.1	177.36 ug/L	177.36 ppb	22:02:53
3	Sb 206.836†	77.4	42.9	8.5126 ug/L	8.5126 ppb	22:02:53
3	Se 196.026†	-270.6	-247.1	18.837 ug/L	18.837 ppb	22:02:53
3	Si 251.611†	745885.4	740953.5	25645 ug/L	25645 ppb	22:02:33
3	Sn 189.927†	-185.7	-190.4	-37.345 ug/L	-37.345 ppb	22:02:53
3	Ti 334.940†	980919.7	976261.6	1872.2 ug/L	1872.2 ppb	22:02:33
3	Tl 190.801†	-98.0	-66.1	-8.6421 ug/L	-8.6421 ppb	22:02:53
3	U 409.014†	-6143.1	-3915.1	-132.35 ug/L	-132.35 ppb	22:02:33
3	V 292.402†	16537.2	18042.0	125.68 ug/L	125.68 ppb	22:02:33
3	Zn 213.857†	14186.6	13346.5	131.36 ug/L	131.36 ppb	22:02:33
3	SiO2†	739680.8	734796.9	54588 ug/L	54588 ppb	22:03:10

Mean Data: 246322004|950257|1

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Sc 361.383	788895.1	99.795 %		1.6221			1.63%
Sc Radial	4772.0	98.3 %		1.68			1.71%
Y 371.029	749418.4	106.32 %		1.706			1.60%
Y RADIAL	5415.7	106.4 %		1.13			1.07%
Ag 328.068†	-4355.6	1.0724 ug/L		0.76092	1.0724 ppb	0.76092	70.96%
Al 396.153Radial†	28876.8	26897 ug/L		556.6	26897 ppb	556.6	2.07%
As 188.979†	-4.3	31.485 ug/L		3.0921	31.485 ppb	3.0921	9.82%
B 249.677†	649.9	3.6738 ug/L		0.72235	3.6738 ppb	0.72235	19.66%
Ba 233.527†	54490.1	618.84 ug/L		4.913	618.84 ppb	4.913	0.79%
Be 313.107†	-5164.1	2.2080 ug/L		0.02933	2.2080 ppb	0.02933	1.33%
Ca 317.933Radial†	34203.1	60240 ug/L		1389.6	60240 ppb	1389.6	2.31%
Cd 226.502†	586.0	0.4411 ug/L		0.04440	0.4411 ppb	0.04440	10.07%
Co 228.616†	1618.1	42.323 ug/L		0.8084	42.323 ppb	0.8084	1.91%
Cr 267.716†	4215.3	57.328 ug/L		0.9562	57.328 ppb	0.9562	1.67%
Cu 324.752†	10943.5	42.784 ug/L		0.4193	42.784 ppb	0.4193	0.98%
Fe 238.204 Radial†	6958.9	73435 ug/L		1593.9	73435 ppb	1593.9	2.17%
K 766.490 Radial†	26349.3	5028.0 ug/L		103.94	5028.0 ppb	103.94	2.07%

Mg 279.077 IEC†	273.4	10742 ug/L	116.9	10742 ppb	116.9	1.09%
Mn 257.610†	831488.0	1282.2 ug/L	9.81	1282.2 ppb	9.81	0.76%
Mo 202.031†	-22.3	4.4267 ug/L	0.43382	4.4267 ppb	0.43382	9.80%
Na 589.592 Radial†	2629.7	889.80 ug/L	18.323	889.80 ppb	18.323	2.06%
Ni 231.604†	1240.2	38.635 ug/L	0.3374	38.635 ppb	0.3374	0.87%
P 214.914†	3573.9	1876.0 ug/L	35.89	1876.0 ppb	35.89	1.91%
Pb 220.353†	219.5	36.325 ug/L	1.3124	36.325 ppb	1.3124	3.61%
S 181.975 Axial†	144.8	180.84 ug/L	5.135	180.84 ppb	5.135	2.84%
Sb 206.836†	27.0	2.3731 ug/L	5.52574	2.3731 ppb	5.52574	232.85%
Se 196.026†	-244.5	23.206 ug/L	3.8530	23.206 ppb	3.8530	16.60%
Si 251.611†	740920.6	25644 ug/L	188.4	25644 ppb	188.4	0.73%
Sn 189.927†	-193.8	-38.023 ug/L	0.6966	-38.023 ppb	0.6966	1.83%
Sr 421.552†	27628.3	198.55 ug/L	3.777	198.55 ppb	3.777	1.90%
Ti 334.940†	975930.2	1871.7 ug/L	15.57	1871.7 ppb	15.57	0.83%
Tl 190.801†	-66.2	-8.6492 ug/L	3.60793	-8.6492 ppb	3.60793	41.71%
U 409.014†	-3916.2	-132.53 ug/L	2.545	-132.53 ppb	2.545	1.92%
V 292.402†	18093.0	125.89 ug/L	0.655	125.89 ppb	0.655	0.52%
Zn 213.857†	13401.6	131.76 ug/L	1.034	131.76 ppb	1.034	0.78%
SiO2†	735439.3	54635 ug/L	1150.8	54635 ppb	1150.8	2.11%

Sequence No.: 40
 Sample ID: 246322005|950257|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 67
 Date Collected: 3/2/2010 22:05:20
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 246322005|950257|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4836.4	4836.4	99.6 %		22:07:13
1	Y RADIAL	6002.7	6002.7	117.9 %		22:07:13
1	Al 396.153Radial†	31562.5	31759.3	29582 ug/L	29582 ppb	22:07:13
1	Ca 317.933Radial†	13380.3	13411.9	23622 ug/L	23622 ppb	22:07:13
1	Fe 238.204 Radial†	7839.3	7858.1	82923 ug/L	82923 ppb	22:07:13
1	K 766.490 Radial†	31681.9	29628.7	5668.3 ug/L	5668.3 ppb	22:07:13
1	Mg 279.077 IEC†	265.4	263.3	10332 ug/L	10332 ppb	22:07:33
1	Na 589.592 Radial†	3308.7	3684.9	1246.8 ug/L	1246.8 ppb	22:07:13
1	Sr 421.552†	18226.3	18270.0	131.42 ug/L	131.42 ppb	22:07:13
1	Sc 361.383	801771.6	801771.6	101.42 %		22:08:31
1	Y 371.029	835667.6	835667.6	118.55 %		22:08:31
1	Ag 328.068†	-4467.4	-4612.7	3.0835 ug/L	3.0835 ppb	22:08:31
1	As 188.979†	-56.6	-27.5	26.964 ug/L	26.964 ppb	22:08:51
1	B 249.677†	337.6	818.0	6.2586 ug/L	6.2586 ppb	22:08:31
1	Ba 233.527†	38044.2	37515.9	427.07 ug/L	427.07 ppb	22:08:31
1	Be 313.107†	-18532.1	-7999.7	1.9989 ug/L	1.9989 ppb	22:08:31
1	Cd 226.502†	472.6	655.8	0.4586 ug/L	0.4586 ppb	22:08:51
1	Co 228.616†	865.6	919.3	20.892 ug/L	20.892 ppb	22:08:51
1	Cr 267.716†	15582.3	15301.2	203.88 ug/L	203.88 ppb	22:08:31
1	Cu 324.752†	100753.3	91623.8	329.54 ug/L	329.54 ppb	22:08:31
1	Mn 257.610†	1161820.1	1145079.5	1764.2 ug/L	1764.2 ppb	22:08:31
1	Mo 202.031†	9.9	1.6	6.8622 ug/L	6.8622 ppb	22:08:51
1	Ni 231.604†	3441.5	3324.7	103.63 ug/L	103.63 ppb	22:08:51
1	P 214.914†	3147.2	2882.0	1437.5 ug/L	1437.5 ppb	22:08:51
1	Pb 220.353†	769.8	820.3	130.96 ug/L	130.96 ppb	22:08:51
1	S 181.975 Axial†	2105.4	2028.6	2598.2 ug/L	2598.2 ppb	22:08:51
1	Sb 206.836†	55.5	20.8	-1.1581 ug/L	-1.1581 ppb	22:08:51
1	Se 196.026†	-292.1	-266.1	32.014 ug/L	32.014 ppb	22:08:51
1	Si 251.611†	807478.3	795608.9	27537 ug/L	27537 ppb	22:08:31
1	Sn 189.927†	-84.0	-88.5	-20.903 ug/L	-20.903 ppb	22:08:51
1	Ti 334.940†	1199792.2	1184075.4	2264.5 ug/L	2264.5 ppb	22:08:31
1	Tl 190.801†	-110.0	-77.2	-7.8722 ug/L	-7.8722 ppb	22:08:51
1	U 409.014†	-6081.2	-3804.1	-130.39 ug/L	-130.39 ppb	22:08:31
1	V 292.402†	12128.6	13560.6	89.330 ug/L	89.330 ppb	22:08:31
1	Zn 213.857†	31237.9	30043.0	307.17 ug/L	307.17 ppb	22:08:31
1	SiO2†	804041.6	792232.0	58854 ug/L	58854 ppb	22:09:49
2	Sc Radial	4797.4	4797.4	98.8 %		22:07:38
2	Y RADIAL	6021.0	6021.0	118.3 %		22:07:38
2	Al 396.153Radial†	32065.5	32525.7	30296 ug/L	30296 ppb	22:07:38
2	Ca 317.933Radial†	13557.7	13700.6	24130 ug/L	24130 ppb	22:07:38
2	Fe 238.204 Radial†	7924.5	8008.2	84508 ug/L	84508 ppb	22:07:38
2	K 766.490 Radial†	31932.9	30141.2	5766.4 ug/L	5766.4 ppb	22:07:38
2	Mg 279.077 IEC†	263.8	263.9	10354 ug/L	10354 ppb	22:07:59
2	Na 589.592 Radial†	3389.4	3793.6	1283.6 ug/L	1283.6 ppb	22:07:38
2	Sr 421.552†	18477.2	18672.7	134.31 ug/L	134.31 ppb	22:07:38
2	Sc 361.383	789784.2	789784.2	99.907 %		22:08:57
2	Y 371.029	825400.3	825400.3	117.10 %		22:08:57
2	Ag 328.068†	-4469.5	-4681.6	3.2336 ug/L	3.2336 ppb	22:08:57
2	As 188.979†	-47.1	-18.9	31.349 ug/L	31.349 ppb	22:09:17
2	B 249.677†	387.7	873.2	7.3336 ug/L	7.3336 ppb	22:08:57
2	Ba 233.527†	37776.5	37817.2	430.53 ug/L	430.53 ppb	22:08:57
2	Be 313.107†	-18458.7	-8203.6	1.9781 ug/L	1.9781 ppb	22:08:57
2	Cd 226.502†	487.5	677.8	0.5980 ug/L	0.5980 ppb	22:09:17
2	Co 228.616†	909.5	976.2	22.470 ug/L	22.470 ppb	22:09:17
2	Cr 267.716†	15470.9	15422.8	205.52 ug/L	205.52 ppb	22:08:57
2	Cu 324.752†	100742.5	93120.8	334.94 ug/L	334.94 ppb	22:08:57
2	Mn 257.610†	1154712.1	1155351.6	1780.1 ug/L	1780.1 ppb	22:08:57
2	Mo 202.031†	16.2	8.1	7.5731 ug/L	7.5731 ppb	22:09:17
2	Ni 231.604†	3511.4	3446.1	107.42 ug/L	107.42 ppb	22:09:17

2	P 214.914†	3149.9	2931.9	1462.4 ug/L	1462.4 ppb	22:09:17
2	Pb 220.353†	785.4	847.5	135.31 ug/L	135.31 ppb	22:09:17
2	S 181.975 Axial†	2116.9	2071.6	2653.2 ug/L	2653.2 ppb	22:09:17
2	Sb 206.836†	64.0	30.1	2.3102 ug/L	2.3102 ppb	22:09:17
2	Se 196.026†	-298.1	-276.6	29.489 ug/L	29.489 ppb	22:09:17
2	Si 251.611†	802700.2	802910.4	27789 ug/L	27789 ppb	22:08:57
2	Sn 189.927†	-81.2	-87.0	-20.548 ug/L	-20.548 ppb	22:09:17
2	Ti 334.940†	1195482.7	1197716.9	2290.6 ug/L	2290.6 ppb	22:08:57
2	Tl 190.801†	-102.5	-71.4	-4.9451 ug/L	-4.9451 ppb	22:09:17
2	U 409.014†	-6141.2	-3955.2	-135.36 ug/L	-135.36 ppb	22:08:57
2	V 292.402†	12065.8	13679.2	89.980 ug/L	89.980 ppb	22:08:57
2	Zn 213.857†	31159.1	30431.6	311.05 ug/L	311.05 ppb	22:08:57
2	SiO2†	807716.4	807942.6	60021 ug/L	60021 ppb	22:09:55
3	Sc Radial	4828.7	4828.7	99.5 %		22:08:04
3	Y RADIAL	6030.0	6030.0	118.5 %		22:08:04
3	Al 396.153Radial†	31809.8	32058.6	29861 ug/L	29861 ppb	22:08:04
3	Ca 317.933Radial†	13501.4	13555.2	23874 ug/L	23874 ppb	22:08:04
3	Fe 238.204 Radial†	7901.6	7933.4	83718 ug/L	83718 ppb	22:08:04
3	K 766.490 Radial†	31795.3	29793.7	5699.8 ug/L	5699.8 ppb	22:08:04
3	Mg 279.077 IEC†	268.9	267.3	10489 ug/L	10489 ppb	22:08:24
3	Na 589.592 Radial†	3341.6	3723.3	1259.8 ug/L	1259.8 ppb	22:08:04
3	Sr 421.552†	18283.1	18356.5	132.04 ug/L	132.04 ppb	22:08:04
3	Sc 361.383	790708.6	790708.6	100.02 %		22:09:23
3	Y 371.029	826239.1	826239.1	117.22 %		22:09:23
3	Ag 328.068†	-4519.8	-4726.8	2.7714 ug/L	2.7714 ppb	22:09:23
3	As 188.979†	-42.1	-13.8	33.341 ug/L	33.341 ppb	22:09:43
3	B 249.677†	460.0	945.0	9.1992 ug/L	9.1992 ppb	22:09:23
3	Ba 233.527†	37749.5	37746.1	429.70 ug/L	429.70 ppb	22:09:23
3	Be 313.107†	-18415.4	-8138.7	1.9918 ug/L	1.9918 ppb	22:09:23
3	Cd 226.502†	474.5	664.2	0.4944 ug/L	0.4944 ppb	22:09:43
3	Co 228.616†	922.6	988.2	22.842 ug/L	22.842 ppb	22:09:43
3	Cr 267.716†	15459.3	15393.2	205.11 ug/L	205.11 ppb	22:09:23
3	Cu 324.752†	100717.9	92978.4	334.39 ug/L	334.39 ppb	22:09:23
3	Mn 257.610†	1153583.0	1152871.5	1776.2 ug/L	1776.2 ppb	22:09:23
3	Mo 202.031†	20.4	12.2	7.8753 ug/L	7.8753 ppb	22:09:43
3	Ni 231.604†	3523.1	3453.8	107.65 ug/L	107.65 ppb	22:09:43
3	P 214.914†	3147.2	2925.5	1459.5 ug/L	1459.5 ppb	22:09:43
3	Pb 220.353†	788.1	849.2	135.55 ug/L	135.55 ppb	22:09:43
3	S 181.975 Axial†	2128.9	2081.1	2665.5 ug/L	2665.5 ppb	22:09:43
3	Sb 206.836†	61.9	27.9	1.5039 ug/L	1.5039 ppb	22:09:43
3	Se 196.026†	-301.5	-279.6	25.904 ug/L	25.904 ppb	22:09:43
3	Si 251.611†	801922.3	801193.3	27730 ug/L	27730 ppb	22:09:23
3	Sn 189.927†	-90.5	-96.3	-22.679 ug/L	-22.679 ppb	22:09:43
3	Ti 334.940†	1194176.4	1195011.9	2285.4 ug/L	2285.4 ppb	22:09:23
3	Tl 190.801†	-118.6	-87.3	-12.195 ug/L	-12.195 ppb	22:09:43
3	U 409.014†	-6027.4	-3834.2	-131.43 ug/L	-131.43 ppb	22:09:23
3	V 292.402†	12123.9	13723.2	90.453 ug/L	90.453 ppb	22:09:23
3	Zn 213.857†	31080.8	30316.8	309.95 ug/L	309.95 ppb	22:09:23
3	SiO2†	814876.3	814155.6	60483 ug/L	60483 ppb	22:10:01

Mean Data: 246322005|950257|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	794088.1	100.45 %	0.844			0.84%
Sc Radial	4820.8	99.3 %	0.43			0.43%
Y 371.029	829102.3	117.62 %	0.809			0.69%
Y RADIAL	6017.9	118.2 %	0.27			0.23%
Ag 328.068†	-4673.7	3.0295 ug/L	0.23579	3.0295 ppb	0.23579	7.78%
Al 396.153Radial†	32114.5	29913 ug/L	359.8	29913 ppb	359.8	1.20%
As 188.979†	-20.1	30.551 ug/L	3.2625	30.551 ppb	3.2625	10.68%
B 249.677†	878.7	7.5971 ug/L	1.48792	7.5971 ppb	1.48792	19.59%
Ba 233.527†	37693.1	429.10 ug/L	1.806	429.10 ppb	1.806	0.42%
Be 313.107†	-8114.0	1.9896 ug/L	0.01056	1.9896 ppb	0.01056	0.53%
Ca 317.933Radial†	13555.9	23875 ug/L	254.2	23875 ppb	254.2	1.06%
Cd 226.502†	665.9	0.5170 ug/L	0.07238	0.5170 ppb	0.07238	14.00%
Co 228.616†	961.2	22.068 ug/L	1.0354	22.068 ppb	1.0354	4.69%
Cr 267.716†	15372.4	204.84 ug/L	0.854	204.84 ppb	0.854	0.42%
Cu 324.752†	92574.3	332.96 ug/L	2.971	332.96 ppb	2.971	0.89%
Fe 238.204 Radial†	7933.2	83716 ug/L	792.3	83716 ppb	792.3	0.95%
K 766.490 Radial†	29854.5	5711.5 ug/L	50.04	5711.5 ppb	50.04	0.88%

Mg 279.077 IEC†	264.8	10392 ug/L	85.2	10392 ppb	85.2	0.82%
Mn 257.610†	1151100.9	1773.5 ug/L	8.30	1773.5 ppb	8.30	0.47%
Mo 202.031†	7.3	7.4369 ug/L	0.52007	7.4369 ppb	0.52007	6.99%
Na 589.592 Radial†	3733.9	1263.4 ug/L	18.65	1263.4 ppb	18.65	1.48%
Ni 231.604†	3408.2	106.23 ug/L	2.257	106.23 ppb	2.257	2.12%
P 214.914†	2913.1	1453.1 ug/L	13.61	1453.1 ppb	13.61	0.94%
Pb 220.353†	839.0	133.94 ug/L	2.587	133.94 ppb	2.587	1.93%
S 181.975 Axial†	2060.4	2639.0 ug/L	35.86	2639.0 ppb	35.86	1.36%
Sb 206.836†	26.2	0.8854 ug/L	1.81500	0.8854 ppb	1.81500	205.00%
Se 196.026†	-274.1	29.136 ug/L	3.0705	29.136 ppb	3.0705	10.54%
Si 251.611†	799904.2	27685 ug/L	132.1	27685 ppb	132.1	0.48%
Sn 189.927†	-90.6	-21.377 ug/L	1.1417	-21.377 ppb	1.1417	5.34%
Sr 421.552†	18433.1	132.59 ug/L	1.525	132.59 ppb	1.525	1.15%
Ti 334.940†	1192268.1	2280.1 ug/L	13.83	2280.1 ppb	13.83	0.61%
Tl 190.801†	-78.6	-8.3373 ug/L	3.64704	-8.3373 ppb	3.64704	43.74%
U 409.014†	-3864.5	-132.39 ug/L	2.620	-132.39 ppb	2.620	1.98%
V 292.402†	13654.3	89.921 ug/L	0.5635	89.921 ppb	0.5635	0.63%
Zn 213.857†	30263.8	309.39 ug/L	1.999	309.39 ppb	1.999	0.65%
SiO2†	804776.7	59786 ug/L	839.4	59786 ppb	839.4	1.40%

Sequence No.: 41

Sample ID: 246322006|950257|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 68

Date Collected: 3/2/2010 22:12:13

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246322006|950257|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4793.7	4793.7	98.8 %		22:14:05
1	Y RADIAL	5657.8	5657.8	111.1 %		22:14:05
1	Al 396.153Radial†	43012.2	43633.7	40642 ug/L	40642 ppb	22:14:05
1	Ca 317.933Radial†	14184.7	14346.0	25267 ug/L	25267 ppb	22:14:05
1	Fe 238.204 Radial†	8574.4	8672.5	91517 ug/L	91517 ppb	22:14:05
1	K 766.490 Radial†	34859.0	33128.6	6338.5 ug/L	6338.5 ppb	22:14:05
1	Mg 279.077 IEC†	217.1	216.8	8484.5 ug/L	8484.5 ppb	22:14:26
1	Na 589.592 Radial†	2047.0	2437.1	824.64 ug/L	824.64 ppb	22:14:05
1	Sr 421.552†	21514.0	21761.7	156.55 ug/L	156.55 ppb	22:14:05
1	Sc 361.383	792535.0	792535.0	100.26 %		22:15:23
1	Y 371.029	785018.8	785018.8	111.37 %		22:15:23
1	Ag 328.068†	-4962.2	-5157.6	3.0816 ug/L	3.0816 ppb	22:15:23
1	As 188.979†	-43.1	-14.6	36.570 ug/L	36.570 ppb	22:15:43
1	B 249.677†	217.1	701.7	2.0742 ug/L	2.0742 ppb	22:15:23
1	Ba 233.527†	38858.0	38764.8	441.46 ug/L	441.46 ppb	22:15:23
1	Be 313.107†	-9820.3	477.0	5.8327 ug/L	5.8327 ppb	22:15:23
1	Cd 226.502†	533.5	722.0	0.4202 ug/L	0.4202 ppb	22:15:43
1	Co 228.616†	552.9	617.4	11.606 ug/L	11.606 ppb	22:15:43
1	Cr 267.716†	2462.1	2393.4	33.585 ug/L	33.585 ppb	22:15:43
1	Cu 324.752†	16397.0	8640.0	35.602 ug/L	35.602 ppb	22:15:23
1	Mn 257.610†	1358517.7	1354626.8	2086.5 ug/L	2086.5 ppb	22:15:23
1	Mo 202.031†	9.9	1.7	7.5601 ug/L	7.5601 ppb	22:15:43
1	Ni 231.604†	1142.4	1071.1	33.379 ug/L	33.379 ppb	22:15:43
1	P 214.914†	1583.5	1358.5	666.34 ug/L	666.34 ppb	22:15:43
1	Pb 220.353†	322.7	383.2	63.743 ug/L	63.743 ppb	22:15:43
1	S 181.975 Axial†	152.7	105.1	127.26 ug/L	127.26 ppb	22:15:43
1	Sb 206.836†	86.0	51.8	9.6397 ug/L	9.6397 ppb	22:15:43
1	Se 196.026†	-323.5	-300.8	31.917 ug/L	31.917 ppb	22:15:43
1	Si 251.611†	1013846.9	1010730.9	34982 ug/L	34982 ppb	22:15:23
1	Sn 189.927†	-64.1	-69.7	-16.765 ug/L	-16.765 ppb	22:15:43
1	Ti 334.940†	1303857.4	1301662.5	2489.6 ug/L	2489.6 ppb	22:15:23
1	Tl 190.801†	-124.8	-93.2	-11.615 ug/L	-11.615 ppb	22:15:43
1	U 409.014†	-8053.5	-5841.3	-195.51 ug/L	-195.51 ppb	22:15:23
1	V 292.402†	11853.4	13425.4	86.709 ug/L	86.709 ppb	22:15:23
1	Zn 213.857†	30687.7	29853.2	304.71 ug/L	304.71 ppb	22:15:23
1	SiO2†	1031151.8	1028003.2	76370 ug/L	76370 ppb	22:16:41
2	Sc Radial	4871.4	4871.4	100 %		22:14:31
2	Y RADIAL	5797.8	5797.8	113.9 %		22:14:31
2	Al 396.153Radial†	42334.0	42263.8	39366 ug/L	39366 ppb	22:14:31
2	Ca 317.933Radial†	13929.1	13862.4	24415 ug/L	24415 ppb	22:14:31
2	Fe 238.204 Radial†	8388.4	8348.7	88100 ug/L	88100 ppb	22:14:31
2	K 766.490 Radial†	34413.0	32121.7	6145.8 ug/L	6145.8 ppb	22:14:31
2	Mg 279.077 IEC†	219.1	215.2	8424.9 ug/L	8424.9 ppb	22:14:51
2	Na 589.592 Radial†	2037.1	2394.2	810.11 ug/L	810.11 ppb	22:14:31
2	Sr 421.552†	21094.8	20996.8	151.05 ug/L	151.05 ppb	22:14:31
2	Sc 361.383	787169.2	787169.2	99.576 %		22:15:49
2	Y 371.029	780060.4	780060.4	110.66 %		22:15:49
2	Ag 328.068†	-4870.1	-5098.9	2.3287 ug/L	2.3287 ppb	22:15:49
2	As 188.979†	-34.3	-6.1	39.536 ug/L	39.536 ppb	22:16:09
2	B 249.677†	186.1	672.0	1.9090 ug/L	1.9090 ppb	22:15:49
2	Ba 233.527†	38620.2	38790.2	441.64 ug/L	441.64 ppb	22:15:49
2	Be 313.107†	-9748.1	482.7	5.8401 ug/L	5.8401 ppb	22:15:49
2	Cd 226.502†	530.0	722.0	0.7752 ug/L	0.7752 ppb	22:16:09
2	Co 228.616†	552.5	620.7	11.745 ug/L	11.745 ppb	22:16:09
2	Cr 267.716†	2463.5	2411.6	33.758 ug/L	33.758 ppb	22:16:09
2	Cu 324.752†	16160.1	8513.6	34.969 ug/L	34.969 ppb	22:15:49
2	Mn 257.610†	1351099.9	1356414.3	2088.9 ug/L	2088.9 ppb	22:15:49
2	Mo 202.031†	2.1	-6.0	6.5954 ug/L	6.5954 ppb	22:16:09
2	Ni 231.604†	1131.9	1068.2	33.290 ug/L	33.290 ppb	22:16:09

2	P 214.914†	1556.1	1341.7	659.78 ug/L	659.78 ppb	22:16:09
2	Pb 220.353†	305.9	368.5	61.361 ug/L	61.361 ppb	22:16:09
2	S 181.975 Axial†	143.9	97.2	117.43 ug/L	117.43 ppb	22:16:09
2	Sb 206.836†	91.6	58.0	12.084 ug/L	12.084 ppb	22:16:09
2	Se 196.026†	-331.9	-311.5	17.872 ug/L	17.872 ppb	22:16:09
2	Si 251.611†	1007026.1	1010774.5	34984 ug/L	34984 ppb	22:15:49
2	Sn 189.927†	-53.8	-59.8	-14.454 ug/L	-14.454 ppb	22:16:09
2	Ti 334.940†	1296213.8	1302851.7	2491.7 ug/L	2491.7 ppb	22:15:49
2	Tl 190.801†	-125.6	-94.9	-12.335 ug/L	-12.335 ppb	22:16:09
2	U 409.014†	-7821.5	-5663.0	-189.47 ug/L	-189.47 ppb	22:15:49
2	V 292.402†	11860.0	13512.7	87.872 ug/L	87.872 ppb	22:15:49
2	Zn 213.857†	30675.2	30049.2	307.31 ug/L	307.31 ppb	22:15:49
2	SiO2†	1034777.1	1038655.0	77161 ug/L	77161 ppb	22:16:47
3	Sc Radial	4909.3	4909.3	101 %		22:14:56
3	Y RADIAL	5791.0	5791.0	113.8 %		22:14:56
3	Al 396.153Radial†	42652.2	42252.9	39356 ug/L	39356 ppb	22:14:56
3	Ca 317.933Radial†	14011.5	13836.7	24370 ug/L	24370 ppb	22:14:56
3	Fe 238.204 Radial†	8483.0	8377.8	88407 ug/L	88407 ppb	22:14:56
3	K 766.490 Radial†	34735.2	32175.6	6156.2 ug/L	6156.2 ppb	22:14:56
3	Mg 279.077 IEC†	215.8	210.3	8229.2 ug/L	8229.2 ppb	22:15:16
3	Na 589.592 Radial†	1994.7	2336.6	790.61 ug/L	790.61 ppb	22:14:56
3	Sr 421.552†	21304.0	21041.4	151.37 ug/L	151.37 ppb	22:14:56
3	Sc 361.383	793198.8	793198.8	100.34 %		22:16:15
3	Y 371.029	786693.0	786693.0	111.61 %		22:16:15
3	Ag 328.068†	-4913.3	-5104.7	2.3943 ug/L	2.3943 ppb	22:16:15
3	As 188.979†	-40.8	-12.3	36.873 ug/L	36.873 ppb	22:16:35
3	B 249.677†	160.6	645.2	1.2091 ug/L	1.2091 ppb	22:16:15
3	Ba 233.527†	38885.9	38760.1	441.31 ug/L	441.31 ppb	22:16:15
3	Be 313.107†	-9862.7	443.0	5.8283 ug/L	5.8283 ppb	22:16:15
3	Cd 226.502†	510.4	698.5	0.4203 ug/L	0.4203 ppb	22:16:35
3	Co 228.616†	570.7	634.6	12.145 ug/L	12.145 ppb	22:16:35
3	Cr 267.716†	2482.1	2411.3	33.761 ug/L	33.761 ppb	22:16:35
3	Cu 324.752†	16423.5	8652.7	35.481 ug/L	35.481 ppb	22:16:15
3	Mn 257.610†	1358441.2	1353416.6	2084.3 ug/L	2084.3 ppb	22:16:15
3	Mo 202.031†	11.4	3.2	7.4424 ug/L	7.4424 ppb	22:16:35
3	Ni 231.604†	1137.8	1065.5	33.206 ug/L	33.206 ppb	22:16:35
3	P 214.914†	1564.7	1338.4	657.64 ug/L	657.64 ppb	22:16:35
3	Pb 220.353†	281.2	341.6	57.065 ug/L	57.065 ppb	22:16:35
3	S 181.975 Axial†	145.1	97.4	117.60 ug/L	117.60 ppb	22:16:35
3	Sb 206.836†	91.6	57.3	11.831 ug/L	11.831 ppb	22:16:35
3	Se 196.026†	-326.3	-303.4	23.322 ug/L	23.322 ppb	22:16:35
3	Si 251.611†	1014749.7	1010784.4	34984 ug/L	34984 ppb	22:16:15
3	Sn 189.927†	-56.6	-62.1	-15.016 ug/L	-15.016 ppb	22:16:35
3	Ti 334.940†	1307005.2	1303711.3	2493.4 ug/L	2493.4 ppb	22:16:15
3	Tl 190.801†	-114.7	-83.1	-7.0287 ug/L	-7.0287 ppb	22:16:35
3	U 409.014†	-7958.8	-5740.2	-191.95 ug/L	-191.95 ppb	22:16:15
3	V 292.402†	11864.5	13426.6	87.170 ug/L	87.170 ppb	22:16:15
3	Zn 213.857†	30770.5	29910.0	305.78 ug/L	305.78 ppb	22:16:15
3	SiO2†	1030863.0	1026854.7	76284 ug/L	76284 ppb	22:16:53

Mean Data: 246322006|950257|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	790967.6	100.06 %	0.418			0.42%
Sc Radial	4858.1	100 %	1.2			1.21%
Y 371.029	783924.1	111.21 %	0.489			0.44%
Y RADIAL	5748.9	112.9 %	1.55			1.37%
Ag 328.068†	-5120.4	2.6015 ug/L	0.41705	2.6015 ppb	0.41705	16.03%
Al 396.153Radial†	42716.8	39788 ug/L	739.6	39788 ppb	739.6	1.86%
As 188.979†	-11.0	37.660 ug/L	1.6319	37.660 ppb	1.6319	4.33%
B 249.677†	673.0	1.7308 ug/L	0.45928	1.7308 ppb	0.45928	26.54%
Ba 233.527†	38771.7	441.47 ug/L	0.166	441.47 ppb	0.166	0.04%
Be 313.107†	467.6	5.8337 ug/L	0.00599	5.8337 ppb	0.00599	0.10%
Ca 317.933Radial†	14015.0	24684 ug/L	505.3	24684 ppb	505.3	2.05%
Cd 226.502†	714.2	0.5386 ug/L	0.20496	0.5386 ppb	0.20496	38.06%
Co 228.616†	624.2	11.832 ug/L	0.2797	11.832 ppb	0.2797	2.36%
Cr 267.716†	2405.4	33.701 ug/L	0.1007	33.701 ppb	0.1007	0.30%
Cu 324.752†	8602.1	35.351 ug/L	0.3355	35.351 ppb	0.3355	0.95%
Fe 238.204 Radial†	8466.3	89341 ug/L	1890.3	89341 ppb	1890.3	2.12%
K 766.490 Radial†	32475.3	6213.5 ug/L	108.36	6213.5 ppb	108.36	1.74%

Mg 279.077 IEC†	214.1	8379.5 ug/L	133.53	8379.5 ppb	133.53	1.59%
Mn 257.610†	1354819.2	2086.6 ug/L	2.28	2086.6 ppb	2.28	0.11%
Mo 202.031†	-0.3	7.1993 ug/L	0.52629	7.1993 ppb	0.52629	7.31%
Na 589.592 Radial†	2389.3	808.45 ug/L	17.072	808.45 ppb	17.072	2.11%
Ni 231.604†	1068.3	33.292 ug/L	0.0865	33.292 ppb	0.0865	0.26%
P 214.914†	1346.2	661.25 ug/L	4.534	661.25 ppb	4.534	0.69%
Pb 220.353†	364.5	60.723 ug/L	3.3846	60.723 ppb	3.3846	5.57%
S 181.975 Axial†	99.9	120.76 ug/L	5.625	120.76 ppb	5.625	4.66%
Sb 206.836†	55.7	11.185 ug/L	1.3441	11.185 ppb	1.3441	12.02%
Se 196.026†	-305.2	24.370 ug/L	7.0809	24.370 ppb	7.0809	29.06%
Si 251.611†	1010763.3	34983 ug/L	1.0	34983 ppb	1.0	0.00%
Sn 189.927†	-63.9	-15.412 ug/L	1.2053	-15.412 ppb	1.2053	7.82%
Sr 421.552†	21266.6	152.99 ug/L	3.089	152.99 ppb	3.089	2.02%
Ti 334.940†	1302741.8	2491.6 ug/L	1.91	2491.6 ppb	1.91	0.08%
Tl 190.801†	-90.4	-10.326 ug/L	2.8783	-10.326 ppb	2.8783	27.87%
U 409.014†	-5748.2	-192.31 ug/L	3.034	-192.31 ppb	3.034	1.58%
V 292.402†	13454.9	87.250 ug/L	0.5859	87.250 ppb	0.5859	0.67%
Zn 213.857†	29937.5	305.93 ug/L	1.309	305.93 ppb	1.309	0.43%
SiO2†	1031171.0	76605 ug/L	483.4	76605 ppb	483.4	0.63%

Sequence No.: 42

Sample ID: 246322007|950257|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 69

Date Collected: 3/2/2010 22:19:04

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246322007|950257|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	4796.6	4796.6	98.8	%		22:21:17
1	Y RADIAL	5382.7	5382.7	105.7	%		22:21:17
1	Al 396.153Radial†	33140.3	33618.7	31314	ug/L	31314 ppb	22:20:57
1	Ca 317.933Radial†	20716.4	20946.5	36892	ug/L	36892 ppb	22:20:57
1	Fe 238.204 Radial†	6844.2	6916.5	72990	ug/L	72990 ppb	22:21:17
1	K 766.490 Radial†	37756.2	36038.9	6892.3	ug/L	6892.3 ppb	22:20:57
1	Mg 279.077 IEC†	326.8	327.6	12888	ug/L	12888 ppb	22:21:17
1	Na 589.592 Radial†	3667.4	4075.5	1379.0	ug/L	1379.0 ppb	22:20:57
1	Sr 421.552†	21860.5	22099.2	158.90	ug/L	158.90 ppb	22:20:57
1	Sc 361.383	788207.4	788207.4	99.708	%		22:22:15
1	Y 371.029	745600.5	745600.5	105.78	%		22:22:15
1	Ag 328.068†	-4100.3	-4320.4	1.3767	ug/L	1.3767 ppb	22:22:15
1	As 188.979†	-23.1	5.2	37.920	ug/L	37.920 ppb	22:22:35
1	B 249.677†	512.0	998.7	11.985	ug/L	11.985 ppb	22:22:15
1	Ba 233.527†	45140.9	45278.9	514.66	ug/L	514.66 ppb	22:22:15
1	Be 313.107†	-16633.2	-6409.6	2.3502	ug/L	2.3502 ppb	22:22:15
1	Cd 226.502†	435.7	626.8	1.0798	ug/L	1.0798 ppb	22:22:35
1	Co 228.616†	3991.5	4069.0	112.91	ug/L	112.91 ppb	22:22:35
1	Cr 267.716†	8530.4	8493.0	113.79	ug/L	113.79 ppb	22:22:15
1	Cu 324.752†	56058.2	48507.2	175.99	ug/L	175.99 ppb	22:22:15
1	Mn 257.610†	865489.2	867593.1	1337.4	ug/L	1337.4 ppb	22:22:15
1	Mo 202.031†	48.4	40.4	9.7162	ug/L	9.7162 ppb	22:22:35
1	Ni 231.604†	2143.4	2081.2	64.809	ug/L	64.809 ppb	22:22:35
1	P 214.914†	4055.5	3846.4	1998.9	ug/L	1998.9 ppb	22:22:35
1	Pb 220.353†	18680.5	18796.6	2986.8	ug/L	2986.8 ppb	22:22:15
1	S 181.975 Axial†	398.1	352.0	445.92	ug/L	445.92 ppb	22:22:35
1	Sb 206.836†	135.5	101.9	30.535	ug/L	30.535 ppb	22:22:35
1	Se 196.026†	-254.5	-233.4	29.175	ug/L	29.175 ppb	22:22:35
1	Si 251.611†	874986.3	877015.6	30354	ug/L	30354 ppb	22:22:15
1	Sn 189.927†	-105.3	-111.3	-23.209	ug/L	-23.209 ppb	22:22:35
1	Ti 334.940†	1116933.1	1121330.9	2146.1	ug/L	2146.1 ppb	22:22:15
1	Tl 190.801†	-98.0	-67.1	-6.8072	ug/L	-6.8072 ppb	22:22:35
1	U 409.014†	-3226.0	-1043.7	-41.628	ug/L	-41.628 ppb	22:22:15
1	V 292.402†	17277.4	18930.2	132.35	ug/L	132.35 ppb	22:22:15
1	Zn 213.857†	22450.7	21760.1	220.70	ug/L	220.70 ppb	22:22:15
1	SiO2†	880603.8	882661.0	65572	ug/L	65572 ppb	22:23:33
2	Sc Radial	4827.4	4827.4	99.5	%		22:21:42
2	Y RADIAL	5402.0	5402.0	106.1	%		22:21:42
2	Al 396.153Radial†	32686.2	32948.2	30689	ug/L	30689 ppb	22:21:22
2	Ca 317.933Radial†	20376.1	20470.6	36054	ug/L	36054 ppb	22:21:22
2	Fe 238.204 Radial†	6868.2	6896.5	72779	ug/L	72779 ppb	22:21:42
2	K 766.490 Radial†	37134.9	35170.5	6726.2	ug/L	6726.2 ppb	22:21:22
2	Mg 279.077 IEC†	323.5	322.2	12675	ug/L	12675 ppb	22:21:42
2	Na 589.592 Radial†	3596.7	3980.7	1346.9	ug/L	1346.9 ppb	22:21:22
2	Sr 421.552†	21390.7	21485.7	154.49	ug/L	154.49 ppb	22:21:22
2	Sc 361.383	782357.8	782357.8	98.968	%		22:22:41
2	Y 371.029	739075.5	739075.5	104.85	%		22:22:41
2	Ag 328.068†	-4045.1	-4295.3	1.4455	ug/L	1.4455 ppb	22:22:41
2	As 188.979†	-3.3	25.0	46.558	ug/L	46.558 ppb	22:23:01
2	B 249.677†	440.6	930.4	10.363	ug/L	10.363 ppb	22:22:41
2	Ba 233.527†	44985.5	45460.4	516.71	ug/L	516.71 ppb	22:22:41
2	Be 313.107†	-16426.5	-6325.5	2.3871	ug/L	2.3871 ppb	22:22:41
2	Cd 226.502†	423.4	617.6	0.9779	ug/L	0.9779 ppb	22:23:01
2	Co 228.616†	3999.9	4107.4	114.02	ug/L	114.02 ppb	22:23:01
2	Cr 267.716†	8435.6	8461.1	113.37	ug/L	113.37 ppb	22:22:41
2	Cu 324.752†	55559.3	48423.5	175.68	ug/L	175.68 ppb	22:22:41
2	Mn 257.610†	861182.4	869731.5	1340.7	ug/L	1340.7 ppb	22:22:41
2	Mo 202.031†	45.0	37.3	9.4082	ug/L	9.4082 ppb	22:23:01
2	Ni 231.604†	2164.4	2118.5	65.972	ug/L	65.972 ppb	22:23:01

2	P 214.914†	4048.7	3870.0	2011.7 ug/L	2011.7 ppb	22:23:01
2	Pb 220.353†	18688.6	18944.9	3010.2 ug/L	3010.2 ppb	22:22:41
2	S 181.975 Axial†	394.6	351.5	445.40 ug/L	445.40 ppb	22:23:01
2	Sb 206.836†	140.1	107.6	32.712 ug/L	32.712 ppb	22:23:01
2	Se 196.026†	-266.7	-247.7	20.249 ug/L	20.249 ppb	22:23:01
2	Si 251.611†	869054.3	877583.1	30374 ug/L	30374 ppb	22:22:41
2	Sn 189.927†	-109.3	-116.2	-24.459 ug/L	-24.459 ppb	22:23:01
2	Ti 334.940†	1109536.8	1122233.0	2147.8 ug/L	2147.8 ppb	22:22:41
2	Tl 190.801†	-97.4	-67.1	-6.8218 ug/L	-6.8218 ppb	22:23:01
2	U 409.014†	-3142.8	-983.9	-39.708 ug/L	-39.708 ppb	22:22:41
2	V 292.402†	17183.0	18964.5	132.63 ug/L	132.63 ppb	22:22:41
2	Zn 213.857†	22305.9	21782.1	220.96 ug/L	220.96 ppb	22:22:41
2	SiO2†	876152.5	884766.7	65729 ug/L	65729 ppb	22:23:39
3	Sc Radial	4790.8	4790.8	98.7 %		22:22:07
3	Y RADIAL	5372.1	5372.1	105.5 %		22:22:07
3	Al 396.153Radial†	33243.3	33764.0	31449 ug/L	31449 ppb	22:21:47
3	Ca 317.933Radial†	20611.0	20865.3	36749 ug/L	36749 ppb	22:21:47
3	Fe 238.204 Radial†	6826.4	6906.9	72889 ug/L	72889 ppb	22:22:07
3	K 766.490 Radial†	37704.2	36033.0	6891.2 ug/L	6891.2 ppb	22:21:47
3	Mg 279.077 IEC†	323.8	325.0	12787 ug/L	12787 ppb	22:22:07
3	Na 589.592 Radial†	3628.8	4040.9	1367.3 ug/L	1367.3 ppb	22:21:47
3	Sr 421.552†	21730.5	21994.5	158.15 ug/L	158.15 ppb	22:21:47
3	Sc 361.383	786230.9	786230.9	99.458 %		22:23:07
3	Y 371.029	744143.0	744143.0	105.57 %		22:23:07
3	Ag 328.068†	-4078.4	-4308.7	1.4018 ug/L	1.4018 ppb	22:23:07
3	As 188.979†	-19.1	9.1	39.573 ug/L	39.573 ppb	22:23:27
3	B 249.677†	369.9	857.0	8.5751 ug/L	8.5751 ppb	22:23:07
3	Ba 233.527†	44911.8	45162.3	513.34 ug/L	513.34 ppb	22:23:07
3	Be 313.107†	-16464.7	-6282.2	2.3911 ug/L	2.3911 ppb	22:23:07
3	Cd 226.502†	416.9	609.0	0.8465 ug/L	0.8465 ppb	22:23:27
3	Co 228.616†	3960.0	4047.5	112.29 ug/L	112.29 ppb	22:23:27
3	Cr 267.716†	8468.0	8451.8	113.24 ug/L	113.24 ppb	22:23:07
3	Cu 324.752†	55781.3	48370.2	175.50 ug/L	175.50 ppb	22:23:07
3	Mn 257.610†	860857.4	865118.1	1333.6 ug/L	1333.6 ppb	22:23:07
3	Mo 202.031†	54.6	46.8	10.273 ug/L	10.273 ppb	22:23:27
3	Ni 231.604†	2138.9	2082.1	64.837 ug/L	64.837 ppb	22:23:27
3	P 214.914†	4028.5	3829.5	1989.9 ug/L	1989.9 ppb	22:23:27
3	Pb 220.353†	18621.2	18784.1	2984.8 ug/L	2984.8 ppb	22:23:07
3	S 181.975 Axial†	385.0	339.9	430.36 ug/L	430.36 ppb	22:23:27
3	Sb 206.836†	128.8	95.5	28.128 ug/L	28.128 ppb	22:23:27
3	Se 196.026†	-266.0	-245.6	21.782 ug/L	21.782 ppb	22:23:27
3	Si 251.611†	870782.0	874994.4	30284 ug/L	30284 ppb	22:23:07
3	Sn 189.927†	-98.4	-104.7	-21.701 ug/L	-21.701 ppb	22:23:27
3	Ti 334.940†	1112040.7	1119227.8	2142.1 ug/L	2142.1 ppb	22:23:07
3	Tl 190.801†	-91.3	-60.5	-3.9161 ug/L	-3.9161 ppb	22:23:27
3	U 409.014†	-3220.8	-1046.6	-41.705 ug/L	-41.705 ppb	22:23:07
3	V 292.402†	17133.8	18829.5	131.60 ug/L	131.60 ppb	22:23:07
3	Zn 213.857†	22269.8	21634.7	219.38 ug/L	219.38 ppb	22:23:07
3	SiO2†	885391.1	889694.6	66095 ug/L	66095 ppb	22:23:45

Mean Data: 246322007|950257|1

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units			
Sc 361.383	785598.7	99.378 %		0.3764				0.38%
Sc Radial	4804.9	99.0 %		0.41				0.41%
Y 371.029	742939.7	105.40 %		0.486				0.46%
Y RADIAL	5385.6	105.8 %		0.30				0.28%
Ag 328.068†	-4308.1	1.4080 ug/L		0.03480	1.4080 ppb	0.03480		2.47%
Al 396.153Radial†	33443.6	31151 ug/L		405.3	31151 ppb	405.3		1.30%
As 188.979†	13.1	41.350 ug/L		4.5851	41.350 ppb	4.5851		11.09%
B 249.677†	928.7	10.307 ug/L		1.7055	10.307 ppb	1.7055		16.55%
Ba 233.527†	45300.5	514.90 ug/L		1.698	514.90 ppb	1.698		0.33%
Be 313.107†	-6339.1	2.3762 ug/L		0.02253	2.3762 ppb	0.02253		0.95%
Ca 317.933Radial†	20760.8	36565 ug/L		448.4	36565 ppb	448.4		1.23%
Cd 226.502†	617.8	0.9681 ug/L		0.11695	0.9681 ppb	0.11695		12.08%
Co 228.616†	4074.7	113.07 ug/L		0.878	113.07 ppb	0.878		0.78%
Cr 267.716†	8468.7	113.47 ug/L		0.288	113.47 ppb	0.288		0.25%
Cu 324.752†	48433.7	175.72 ug/L		0.248	175.72 ppb	0.248		0.14%
Fe 238.204 Radial†	6906.6	72886 ug/L		105.7	72886 ppb	105.7		0.15%
K 766.490 Radial†	35747.5	6836.6 ug/L		95.59	6836.6 ppb	95.59		1.40%

Mg 279.077 IEC†	324.9	12783 ug/L	106.5	12783 ppb	106.5	0.83%
Mn 257.610†	867480.9	1337.3 ug/L	3.54	1337.3 ppb	3.54	0.26%
Mo 202.031†	41.5	9.7991 ug/L	0.43826	9.7991 ppb	0.43826	4.47%
Na 589.592 Radial†	4032.4	1364.4 ug/L	16.23	1364.4 ppb	16.23	1.19%
Ni 231.604†	2093.9	65.206 ug/L	0.6636	65.206 ppb	0.6636	1.02%
P 214.914†	3848.6	2000.2 ug/L	10.96	2000.2 ppb	10.96	0.55%
Pb 220.353†	18841.9	2994.0 ug/L	14.11	2994.0 ppb	14.11	0.47%
S 181.975 Axial†	347.8	440.56 ug/L	8.838	440.56 ppb	8.838	2.01%
Sb 206.836†	101.7	30.458 ug/L	2.2931	30.458 ppb	2.2931	7.53%
Se 196.026†	-242.2	23.736 ug/L	4.7730	23.736 ppb	4.7730	20.11%
Si 251.611†	876531.0	30337 ug/L	47.1	30337 ppb	47.1	0.16%
Sn 189.927†	-110.7	-23.123 ug/L	1.3810	-23.123 ppb	1.3810	5.97%
Sr 421.552†	21859.8	157.18 ug/L	2.360	157.18 ppb	2.360	1.50%
Ti 334.940†	1120930.6	2145.3 ug/L	2.91	2145.3 ppb	2.91	0.14%
Tl 190.801†	-64.9	-5.8484 ug/L	1.67343	-5.8484 ppb	1.67343	28.61%
U 409.014†	-1024.7	-41.014 ug/L	1.1317	-41.014 ppb	1.1317	2.76%
V 292.402†	18908.1	132.19 ug/L	0.534	132.19 ppb	0.534	0.40%
Zn 213.857†	21725.6	220.35 ug/L	0.848	220.35 ppb	0.848	0.38%
SiO2†	885707.5	65799 ug/L	268.2	65799 ppb	268.2	0.41%

Sequence No.: 43

Sample ID: 246322008|950257|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 70

Date Collected: 3/2/2010 22:25:57

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246322008|950257|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4845.0	4845.0	99.8 %		22:27:50
1	Y RADIAL	5650.3	5650.3	111.0 %		22:27:50
1	Al 396.153Radial†	27878.5	28012.9	26092 ug/L	26092 ppb	22:27:50
1	Ca 317.933Radial†	4630.8	4623.5	8143.2 ug/L	8143.2 ppb	22:27:50
1	Fe 238.204 Radial†	6492.6	6495.2	68541 ug/L	68541 ppb	22:27:50
1	K 766.490 Radial†	23001.1	20876.8	3996.4 ug/L	3996.4 ppb	22:27:50
1	Mg 279.077 IEC†	133.6	130.8	5103.1 ug/L	5103.1 ppb	22:28:10
1	Na 589.592 Radial†	3476.5	3847.2	1301.7 ug/L	1301.7 ppb	22:27:50
1	Sr 421.552†	7730.2	7723.4	55.568 ug/L	55.568 ppb	22:27:50
1	Sc 361.383	796009.1	796009.1	100.69 %		22:29:07
1	Y 371.029	782353.0	782353.0	110.99 %		22:29:07
1	Ag 328.068†	-3577.7	-3761.1	2.8884 ug/L	2.8884 ppb	22:29:07
1	As 188.979†	-46.9	-18.2	26.333 ug/L	26.333 ppb	22:29:27
1	B 249.677†	33.8	518.7	1.3871 ug/L	1.3871 ppb	22:29:07
1	Ba 233.527†	29314.0	29117.4	331.54 ug/L	331.54 ppb	22:29:07
1	Be 313.107†	-12492.9	-2134.4	3.9523 ug/L	3.9523 ppb	22:29:07
1	Cd 226.502†	355.4	542.8	0.3376 ug/L	0.3376 ppb	22:29:27
1	Co 228.616†	402.0	465.1	8.2610 ug/L	8.2610 ppb	22:29:27
1	Cr 267.716†	1936.9	1861.1	26.040 ug/L	26.040 ppb	22:29:27
1	Cu 324.752†	14573.8	6758.0	27.699 ug/L	27.699 ppb	22:29:07
1	Mn 257.610†	1230976.8	1222051.6	1881.0 ug/L	1881.0 ppb	22:29:07
1	Mo 202.031†	40.6	32.2	8.2960 ug/L	8.2960 ppb	22:29:27
1	Ni 231.604†	869.6	795.1	24.780 ug/L	24.780 ppb	22:29:27
1	P 214.914†	1017.1	789.1	374.17 ug/L	374.17 ppb	22:29:27
1	Pb 220.353†	194.7	254.7	41.414 ug/L	41.414 ppb	22:29:27
1	S 181.975 Axial†	85.7	37.8	43.631 ug/L	43.631 ppb	22:29:27
1	Sb 206.836†	44.8	10.5	-4.0963 ug/L	-4.0963 ppb	22:29:27
1	Se 196.026†	-251.5	-227.9	21.964 ug/L	21.964 ppb	22:29:27
1	Si 251.611†	935855.4	928863.8	32149 ug/L	32149 ppb	22:29:07
1	Sn 189.927†	26.6	20.7	2.2666 ug/L	2.2666 ppb	22:29:27
1	Ti 334.940†	1110737.2	1104198.4	2110.3 ug/L	2110.3 ppb	22:29:07
1	Tl 190.801†	-95.3	-63.4	-2.1874 ug/L	-2.1874 ppb	22:29:27
1	U 409.014†	-7559.4	-5315.5	-176.22 ug/L	-176.22 ppb	22:29:07
1	V 292.402†	5638.0	7201.3	42.771 ug/L	42.771 ppb	22:29:07
1	Zn 213.857†	28148.0	27197.4	279.86 ug/L	279.86 ppb	22:29:07
1	SiO2†	936915.6	929928.1	69084 ug/L	69084 ppb	22:30:25
2	Sc Radial	4869.5	4869.5	100 %		22:28:15
2	Y RADIAL	5672.9	5672.9	111.4 %		22:28:15
2	Al 396.153Radial†	27851.8	27845.9	25937 ug/L	25937 ppb	22:28:15
2	Ca 317.933Radial†	4626.0	4595.4	8093.6 ug/L	8093.6 ppb	22:28:15
2	Fe 238.204 Radial†	6459.7	6429.7	67850 ug/L	67850 ppb	22:28:15
2	K 766.490 Radial†	23068.0	20827.5	3987.0 ug/L	3987.0 ppb	22:28:15
2	Mg 279.077 IEC†	130.0	126.6	4937.9 ug/L	4937.9 ppb	22:28:35
2	Na 589.592 Radial†	3412.2	3765.6	1274.1 ug/L	1274.1 ppb	22:28:15
2	Sr 421.552†	7674.6	7629.1	54.890 ug/L	54.890 ppb	22:28:15
2	Sc 361.383	802828.1	802828.1	101.56 %		22:29:33
2	Y 371.029	787927.3	787927.3	111.78 %		22:29:33
2	Ag 328.068†	-3651.9	-3803.9	2.4675 ug/L	2.4675 ppb	22:29:33
2	As 188.979†	-52.3	-23.2	23.977 ug/L	23.977 ppb	22:29:53
2	B 249.677†	-34.3	451.3	-0.1318 ug/L	-0.1318 ppb	22:29:33
2	Ba 233.527†	29532.3	29085.1	331.15 ug/L	331.15 ppb	22:29:33
2	Be 313.107†	-12532.9	-2068.4	3.9725 ug/L	3.9725 ppb	22:29:33
2	Cd 226.502†	362.2	546.5	0.4589 ug/L	0.4589 ppb	22:29:53
2	Co 228.616†	412.1	471.6	8.4673 ug/L	8.4673 ppb	22:29:53
2	Cr 267.716†	1941.9	1849.7	25.876 ug/L	25.876 ppb	22:29:53
2	Cu 324.752†	14641.2	6701.4	27.461 ug/L	27.461 ppb	22:29:33
2	Mn 257.610†	1241138.0	1221673.7	1880.4 ug/L	1880.4 ppb	22:29:33
2	Mo 202.031†	53.1	44.1	9.3045 ug/L	9.3045 ppb	22:29:53
2	Ni 231.604†	865.8	784.1	24.435 ug/L	24.435 ppb	22:29:53

2	P 214.914†	1021.7	785.1	372.53 ug/L	372.53 ppb	22:29:53
2	Pb 220.353†	222.5	280.4	45.509 ug/L	45.509 ppb	22:29:53
2	S 181.975 Axial†	83.5	34.9	39.979 ug/L	39.979 ppb	22:29:53
2	Sb 206.836†	56.3	21.4	0.1318 ug/L	0.1318 ppb	22:29:53
2	Se 196.026†	-242.3	-216.8	26.941 ug/L	26.941 ppb	22:29:53
2	Si 251.611†	944821.3	929798.2	32181 ug/L	32181 ppb	22:29:33
2	Sn 189.927†	23.8	17.7	1.6083 ug/L	1.6083 ppb	22:29:53
2	Ti 334.940†	1118915.5	1102882.1	2107.8 ug/L	2107.8 ppb	22:29:33
2	Tl 190.801†	-104.1	-71.3	-5.7749 ug/L	-5.7749 ppb	22:29:53
2	U 409.014†	-7603.6	-5295.3	-175.50 ug/L	-175.50 ppb	22:29:33
2	V 292.402†	5723.6	7238.0	43.169 ug/L	43.169 ppb	22:29:33
2	Zn 213.857†	28227.7	27038.4	278.27 ug/L	278.27 ppb	22:29:33
2	SiO2†	947397.7	932346.6	69263 ug/L	69263 ppb	22:30:31
3	Sc Radial	4868.9	4868.9	100 %		22:28:40
3	Y RADIAL	5674.6	5674.6	111.5 %		22:28:40
3	Al 396.153Radial†	27880.3	27877.4	25966 ug/L	25966 ppb	22:28:40
3	Ca 317.933Radial†	4603.2	4573.2	8054.5 ug/L	8054.5 ppb	22:28:40
3	Fe 238.204 Radial†	6450.0	6420.7	67755 ug/L	67755 ppb	22:28:40
3	K 766.490 Radial†	23022.3	20784.6	3978.8 ug/L	3978.8 ppb	22:28:40
3	Mg 279.077 IEC†	132.6	129.1	5039.8 ug/L	5039.8 ppb	22:29:00
3	Na 589.592 Radial†	3414.6	3768.3	1275.1 ug/L	1275.1 ppb	22:28:40
3	Sr 421.552†	7680.1	7635.4	54.935 ug/L	54.935 ppb	22:28:40
3	Sc 361.383	805519.8	805519.8	101.90 %		22:29:59
3	Y 371.029	791887.5	791887.5	112.34 %		22:29:59
3	Ag 328.068†	-3599.4	-3740.4	2.7465 ug/L	2.7465 ppb	22:29:59
3	As 188.979†	-47.0	-17.8	26.300 ug/L	26.300 ppb	22:30:19
3	B 249.677†	-83.7	403.0	-1.2869 ug/L	-1.2869 ppb	22:29:59
3	Ba 233.527†	29656.5	29109.9	331.43 ug/L	331.43 ppb	22:29:59
3	Be 313.107†	-12682.9	-2174.4	3.9320 ug/L	3.9320 ppb	22:29:59
3	Cd 226.502†	351.9	535.2	0.3137 ug/L	0.3137 ppb	22:30:19
3	Co 228.616†	408.6	466.9	8.3284 ug/L	8.3284 ppb	22:30:19
3	Cr 267.716†	1934.6	1836.2	25.695 ug/L	25.695 ppb	22:30:19
3	Cu 324.752†	14668.7	6680.3	27.382 ug/L	27.382 ppb	22:29:59
3	Mn 257.610†	1242639.4	1219063.3	1876.4 ug/L	1876.4 ppb	22:29:59
3	Mo 202.031†	44.2	35.2	8.5003 ug/L	8.5003 ppb	22:30:19
3	Ni 231.604†	878.3	793.5	24.729 ug/L	24.729 ppb	22:30:19
3	P 214.914†	1030.1	789.9	375.25 ug/L	375.25 ppb	22:30:19
3	Pb 220.353†	202.0	259.6	42.216 ug/L	42.216 ppb	22:30:19
3	S 181.975 Axial†	82.6	33.8	38.502 ug/L	38.502 ppb	22:30:19
3	Sb 206.836†	47.3	12.4	-3.3792 ug/L	-3.3792 ppb	22:30:19
3	Se 196.026†	-243.5	-217.1	26.525 ug/L	26.525 ppb	22:30:19
3	Si 251.611†	946227.6	928069.5	32121 ug/L	32121 ppb	22:29:59
3	Sn 189.927†	14.3	8.2	-0.5651 ug/L	-0.5651 ppb	22:30:19
3	Ti 334.940†	1122919.9	1103130.3	2108.2 ug/L	2108.2 ppb	22:29:59
3	Tl 190.801†	-112.7	-79.3	-9.3980 ug/L	-9.3980 ppb	22:30:19
3	U 409.014†	-7657.5	-5323.2	-176.37 ug/L	-176.37 ppb	22:29:59
3	V 292.402†	5599.5	7097.5	42.094 ug/L	42.094 ppb	22:29:59
3	Zn 213.857†	28301.5	27018.0	278.06 ug/L	278.06 ppb	22:29:59
3	SiO2†	938308.7	920309.6	68369 ug/L	68369 ppb	22:30:37

Mean Data: 246322008|950257|1

Analyte	Mean Corrected		Calib.	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc. Units			Conc. Units			
Sc 361.383	801452.3	101.38 %		0.620				0.61%
Sc Radial	4861.1	100 %		0.3				0.29%
Y 371.029	787389.3	111.70 %		0.680				0.61%
Y RADIAL	5665.9	111.3 %		0.27				0.24%
Ag 328.068†	-3768.5	2.7008 ug/L		0.21415	2.7008 ppb	0.21415		7.93%
Al 396.153Radial†	27912.1	25998 ug/L		82.7	25998 ppb	82.7		0.32%
As 188.979†	-19.8	25.537 ug/L		1.3510	25.537 ppb	1.3510		5.29%
B 249.677†	457.7	-0.0105 ug/L		1.34110	-0.0105 ppb	1.34110		>999.9%
Ba 233.527†	29104.1	331.37 ug/L		0.199	331.37 ppb	0.199		0.06%
Be 313.107†	-2125.8	3.9523 ug/L		0.02024	3.9523 ppb	0.02024		0.51%
Ca 317.933Radial†	4597.3	8097.1 ug/L		44.46	8097.1 ppb	44.46		0.55%
Cd 226.502†	541.5	0.3700 ug/L		0.07784	0.3700 ppb	0.07784		21.03%
Co 228.616†	467.9	8.3522 ug/L		0.10521	8.3522 ppb	0.10521		1.26%
Cr 267.716†	1849.0	25.870 ug/L		0.1728	25.870 ppb	0.1728		0.67%
Cu 324.752†	6713.2	27.514 ug/L		0.1651	27.514 ppb	0.1651		0.60%
Fe 238.204 Radial†	6448.5	68049 ug/L		429.0	68049 ppb	429.0		0.63%
K 766.490 Radial†	20829.6	3987.4 ug/L		8.82	3987.4 ppb	8.82		0.22%

Mg 279.077 IEC†	128.8	5026.9 ug/L	83.35	5026.9 ppb	83.35	1.66%
Mn 257.610†	1220929.5	1879.3 ug/L	2.53	1879.3 ppb	2.53	0.13%
Mo 202.031†	37.2	8.7002 ug/L	0.53315	8.7002 ppb	0.53315	6.13%
Na 589.592 Radial†	3793.7	1283.6 ug/L	15.69	1283.6 ppb	15.69	1.22%
Ni 231.604†	790.9	24.648 ug/L	0.1862	24.648 ppb	0.1862	0.76%
P 214.914†	788.0	373.98 ug/L	1.367	373.98 ppb	1.367	0.37%
Pb 220.353†	264.9	43.046 ug/L	2.1699	43.046 ppb	2.1699	5.04%
S 181.975 Axial†	35.5	40.704 ug/L	2.6405	40.704 ppb	2.6405	6.49%
Sb 206.836†	14.8	-2.4479 ug/L	2.26269	-2.4479 ppb	2.26269	92.43%
Se 196.026†	-220.6	25.143 ug/L	2.7613	25.143 ppb	2.7613	10.98%
Si 251.611†	928910.5	32150 ug/L	29.9	32150 ppb	29.9	0.09%
Sn 189.927†	15.5	1.1033 ug/L	1.48185	1.1033 ppb	1.48185	134.31%
Sr 421.552†	7662.6	55.131 ug/L	0.3795	55.131 ppb	0.3795	0.69%
Ti 334.940†	1103403.6	2108.8 ug/L	1.33	2108.8 ppb	1.33	0.06%
Tl 190.801†	-71.3	-5.7867 ug/L	3.60529	-5.7867 ppb	3.60529	62.30%
U 409.014†	-5311.3	-176.03 ug/L	0.466	-176.03 ppb	0.466	0.26%
V 292.402†	7178.9	42.678 ug/L	0.5433	42.678 ppb	0.5433	1.27%
Zn 213.857†	27084.6	278.73 ug/L	0.983	278.73 ppb	0.983	0.35%
SiO2†	927528.1	68905 ug/L	473.0	68905 ppb	473.0	0.69%

Sequence No.: 44
 Sample ID: 246322009|950257|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 71
 Date Collected: 3/2/2010 22:32:49
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 246322009|950257|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4984.0	4984.0	103 %		22:34:42
1	Y RADIAL	5495.1	5495.1	108.0 %		22:34:42
1	Al 396.153Radial†	19998.7	19560.6	18219 ug/L	18219 ppb	22:34:42
1	Ca 317.933Radial†	11418.8	11104.2	19557 ug/L	19557 ppb	22:34:42
1	Fe 238.204 Radial†	5364.9	5215.6	55038 ug/L	55038 ppb	22:34:42
1	K 766.490 Radial†	27461.9	24577.9	4702.0 ug/L	4702.0 ppb	22:34:42
1	Mg 279.077 IEC†	227.8	218.8	8602.6 ug/L	8602.6 ppb	22:35:02
1	Na 589.592 Radial†	3244.7	3524.3	1192.5 ug/L	1192.5 ppb	22:34:42
1	Sr 421.552†	19097.6	18577.0	133.66 ug/L	133.66 ppb	22:34:42
1	Sc 361.383	785404.1	785404.1	99.353 %		22:35:59
1	Y 371.029	731467.7	731467.7	103.77 %		22:35:59
1	Ag 328.068†	-2897.3	-3124.2	1.8286 ug/L	1.8286 ppb	22:35:59
1	As 188.979†	-33.8	-5.7	21.201 ug/L	21.201 ppb	22:36:19
1	B 249.677†	198.3	684.7	7.5834 ug/L	7.5834 ppb	22:35:59
1	Ba 233.527†	48484.5	48805.8	553.92 ug/L	553.92 ppb	22:35:59
1	Be 313.107†	-13132.9	-2946.1	1.6734 ug/L	1.6734 ppb	22:35:59
1	Cd 226.502†	255.0	446.4	0.4504 ug/L	0.4504 ppb	22:36:19
1	Co 228.616†	580.1	649.8	15.701 ug/L	15.701 ppb	22:36:19
1	Cr 267.716†	7255.5	7240.4	96.863 ug/L	96.863 ppb	22:36:19
1	Cu 324.752†	106092.0	99067.5	354.45 ug/L	354.45 ppb	22:35:59
1	Mn 257.610†	933738.5	939384.9	1446.0 ug/L	1446.0 ppb	22:35:59
1	Mo 202.031†	12.1	4.1	4.8701 ug/L	4.8701 ppb	22:36:19
1	Ni 231.604†	1878.1	1821.8	56.784 ug/L	56.784 ppb	22:36:19
1	P 214.914†	3553.0	3355.1	1708.2 ug/L	1708.2 ppb	22:36:19
1	Pb 220.353†	2052.2	2126.9	337.81 ug/L	337.81 ppb	22:36:19
1	S 181.975 Axial†	492.4	448.4	572.07 ug/L	572.07 ppb	22:36:19
1	Sb 206.836†	41.0	7.3	-2.4094 ug/L	-2.4094 ppb	22:36:19
1	Se 196.026†	-199.2	-178.7	19.918 ug/L	19.918 ppb	22:36:19
1	Si 251.611†	597896.7	601254.1	20810 ug/L	20810 ppb	22:35:59
1	Sn 189.927†	-89.1	-95.4	-21.607 ug/L	-21.607 ppb	22:36:19
1	Ti 334.940†	646820.3	652155.6	1247.8 ug/L	1247.8 ppb	22:35:59
1	Tl 190.801†	-78.8	-48.0	-4.6588 ug/L	-4.6588 ppb	22:36:19
1	U 409.014†	-4604.1	-2442.3	-83.841 ug/L	-83.841 ppb	22:35:59
1	V 292.402†	11958.1	13638.2	95.154 ug/L	95.154 ppb	22:35:59
1	Zn 213.857†	22022.0	21408.9	219.45 ug/L	219.45 ppb	22:35:59
1	SiO2†	602324.6	605722.3	44999 ug/L	44999 ppb	22:37:17
2	Sc Radial	4978.2	4978.2	103 %		22:35:07
2	Y RADIAL	5501.7	5501.7	108.1 %		22:35:07
2	Al 396.153Radial†	19992.0	19576.6	18234 ug/L	18234 ppb	22:35:07
2	Ca 317.933Radial†	11383.5	11082.7	19519 ug/L	19519 ppb	22:35:07
2	Fe 238.204 Radial†	5325.2	5182.9	54693 ug/L	54693 ppb	22:35:07
2	K 766.490 Radial†	27430.9	24578.7	4702.2 ug/L	4702.2 ppb	22:35:07
2	Mg 279.077 IEC†	227.0	218.3	8582.6 ug/L	8582.6 ppb	22:35:27
2	Na 589.592 Radial†	3220.8	3504.7	1185.9 ug/L	1185.9 ppb	22:35:07
2	Sr 421.552†	19047.4	18549.6	133.46 ug/L	133.46 ppb	22:35:07
2	Sc 361.383	789096.0	789096.0	99.820 %		22:36:25
2	Y 371.029	734519.9	734519.9	104.20 %		22:36:25
2	Ag 328.068†	-2963.4	-3176.8	1.4635 ug/L	1.4635 ppb	22:36:25
2	As 188.979†	-24.7	3.5	25.152 ug/L	25.152 ppb	22:36:45
2	B 249.677†	193.3	678.7	7.4941 ug/L	7.4941 ppb	22:36:25
2	Ba 233.527†	48640.4	48733.8	553.09 ug/L	553.09 ppb	22:36:25
2	Be 313.107†	-13317.3	-3069.0	1.6236 ug/L	1.6236 ppb	22:36:25
2	Cd 226.502†	260.6	450.9	0.5468 ug/L	0.5468 ppb	22:36:45
2	Co 228.616†	596.5	663.4	16.104 ug/L	16.104 ppb	22:36:45
2	Cr 267.716†	7263.3	7214.0	96.507 ug/L	96.507 ppb	22:36:45
2	Cu 324.752†	107086.4	99564.1	356.20 ug/L	356.20 ppb	22:36:25
2	Mn 257.610†	935417.0	936669.3	1441.8 ug/L	1441.8 ppb	22:36:25
2	Mo 202.031†	18.7	10.6	5.4267 ug/L	5.4267 ppb	22:36:45
2	Ni 231.604†	1896.9	1831.8	57.096 ug/L	57.096 ppb	22:36:45

2	P 214.914†	3562.2	3347.6	1704.1 ug/L	1704.1 ppb	22:36:45
2	Pb 220.353†	2064.8	2129.8	338.31 ug/L	338.31 ppb	22:36:45
2	S 181.975 Axial†	485.8	439.4	560.60 ug/L	560.60 ppb	22:36:45
2	Sb 206.836†	35.6	1.7	-4.5078 ug/L	-4.5078 ppb	22:36:45
2	Se 196.026†	-203.5	-182.0	17.201 ug/L	17.201 ppb	22:36:45
2	Si 251.611†	600968.7	601516.1	20819 ug/L	20819 ppb	22:36:25
2	Sn 189.927†	-79.0	-84.9	-19.176 ug/L	-19.176 ppb	22:36:45
2	Ti 334.940†	649487.2	651781.2	1247.1 ug/L	1247.1 ppb	22:36:25
2	Tl 190.801†	-75.8	-44.6	-3.1506 ug/L	-3.1506 ppb	22:36:45
2	U 409.014†	-4766.1	-2583.0	-88.255 ug/L	-88.255 ppb	22:36:25
2	V 292.402†	11834.1	13457.7	93.821 ug/L	93.821 ppb	22:36:25
2	Zn 213.857†	22079.3	21362.6	219.00 ug/L	219.00 ppb	22:36:25
2	SiO2†	603135.0	603697.8	44848 ug/L	44848 ppb	22:37:22
3	Sc Radial	4817.0	4817.0	99.2 %		22:35:32
3	Y RADIAL	5302.3	5302.3	104.2 %		22:35:32
3	Al 396.153Radial†	19455.5	19688.4	18339 ug/L	18339 ppb	22:35:32
3	Ca 317.933Radial†	11130.3	11199.1	19724 ug/L	19724 ppb	22:35:32
3	Fe 238.204 Radial†	5221.5	5252.2	55424 ug/L	55424 ppb	22:35:32
3	K 766.490 Radial†	26808.3	24846.4	4753.4 ug/L	4753.4 ppb	22:35:32
3	Mg 279.077 IEC†	222.3	220.9	8684.1 ug/L	8684.1 ppb	22:35:52
3	Na 589.592 Radial†	3038.5	3426.0	1159.2 ug/L	1159.2 ppb	22:35:32
3	Sr 421.552†	18373.3	18491.9	133.04 ug/L	133.04 ppb	22:35:32
3	Sc 361.383	800702.1	800702.1	101.29 %		22:36:51
3	Y 371.029	745780.5	745780.5	105.80 %		22:36:51
3	Ag 328.068†	-2963.3	-3133.6	1.8964 ug/L	1.8964 ppb	22:36:51
3	As 188.979†	-24.2	4.5	25.706 ug/L	25.706 ppb	22:37:11
3	B 249.677†	173.1	656.1	6.8280 ug/L	6.8280 ppb	22:36:51
3	Ba 233.527†	49377.8	48755.4	553.36 ug/L	553.36 ppb	22:36:51
3	Be 313.107†	-13404.3	-2961.5	1.6614 ug/L	1.6614 ppb	22:36:51
3	Cd 226.502†	270.1	456.5	0.5472 ug/L	0.5472 ppb	22:37:11
3	Co 228.616†	583.5	641.9	15.473 ug/L	15.473 ppb	22:37:11
3	Cr 267.716†	7220.5	7066.2	94.569 ug/L	94.569 ppb	22:37:11
3	Cu 324.752†	108300.4	99207.7	354.97 ug/L	354.97 ppb	22:36:51
3	Mn 257.610†	947689.7	935202.8	1439.6 ug/L	1439.6 ppb	22:36:51
3	Mo 202.031†	12.3	4.0	4.8931 ug/L	4.8931 ppb	22:37:11
3	Ni 231.604†	1876.6	1784.2	55.612 ug/L	55.612 ppb	22:37:11
3	P 214.914†	3528.2	3262.4	1657.6 ug/L	1657.6 ppb	22:37:11
3	Pb 220.353†	2023.6	2059.2	327.06 ug/L	327.06 ppb	22:37:11
3	S 181.975 Axial†	493.0	439.5	560.65 ug/L	560.65 ppb	22:37:11
3	Sb 206.836†	50.3	15.7	0.8513 ug/L	0.8513 ppb	22:37:11
3	Se 196.026†	-197.9	-173.5	23.808 ug/L	23.808 ppb	22:37:11
3	Si 251.611†	609389.1	601102.7	20805 ug/L	20805 ppb	22:36:51
3	Sn 189.927†	-75.9	-80.6	-18.202 ug/L	-18.202 ppb	22:37:11
3	Ti 334.940†	658043.1	650797.2	1245.3 ug/L	1245.3 ppb	22:36:51
3	Tl 190.801†	-90.5	-58.1	-9.2062 ug/L	-9.2062 ppb	22:37:11
3	U 409.014†	-4788.2	-2535.5	-86.831 ug/L	-86.831 ppb	22:36:51
3	V 292.402†	12034.1	13483.2	93.910 ug/L	93.910 ppb	22:36:51
3	Zn 213.857†	22324.7	21284.3	218.07 ug/L	218.07 ppb	22:36:51
3	SiO2†	595372.6	587276.0	43628 ug/L	43628 ppb	22:37:28

Mean Data: 246322009|950257|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	791734.1	100.15 %		1.010				1.01%
Sc Radial	4926.4	102 %		2.0				1.92%
Y 371.029	737256.0	104.59 %		1.069				1.02%
Y RADIAL	5433.0	106.7 %		2.23				2.09%
Ag 328.068†	-3144.9	1.7295 ug/L		0.23282	1.7295 ppb		0.23282	13.46%
Al 396.153Radial†	19608.5	18264 ug/L		64.9	18264 ppb		64.9	0.36%
As 188.979†	0.8	24.020 ug/L		2.4567	24.020 ppb		2.4567	10.23%
B 249.677†	673.2	7.3018 ug/L		0.41278	7.3018 ppb		0.41278	5.65%
Ba 233.527†	48765.0	553.46 ug/L		0.423	553.46 ppb		0.423	0.08%
Be 313.107†	-2992.2	1.6528 ug/L		0.02602	1.6528 ppb		0.02602	1.57%
Ca 317.933Radial†	11128.6	19600 ug/L		109.1	19600 ppb		109.1	0.56%
Cd 226.502†	451.3	0.5148 ug/L		0.05573	0.5148 ppb		0.05573	10.83%
Co 228.616†	651.7	15.759 ug/L		0.3196	15.759 ppb		0.3196	2.03%
Cr 267.716†	7173.5	95.980 ug/L		1.2343	95.980 ppb		1.2343	1.29%
Cu 324.752†	99279.8	355.21 ug/L		0.897	355.21 ppb		0.897	0.25%
Fe 238.204 Radial†	5216.9	55052 ug/L		365.7	55052 ppb		365.7	0.66%
K 766.490 Radial†	24667.7	4719.2 ug/L		29.63	4719.2 ppb		29.63	0.63%

Mg 279.077 IEC†	219.4	8623.1 ug/L	53.80	8623.1 ppb	53.80	0.62%
Mn 257.610†	937085.7	1442.4 ug/L	3.24	1442.4 ppb	3.24	0.22%
Mo 202.031†	6.2	5.0633 ug/L	0.31490	5.0633 ppb	0.31490	6.22%
Na 589.592 Radial†	3485.0	1179.2 ug/L	17.59	1179.2 ppb	17.59	1.49%
Ni 231.604†	1812.6	56.497 ug/L	0.7823	56.497 ppb	0.7823	1.38%
P 214.914†	3321.7	1690.0 ug/L	28.10	1690.0 ppb	28.10	1.66%
Pb 220.353†	2105.3	334.40 ug/L	6.357	334.40 ppb	6.357	1.90%
S 181.975 Axial†	442.4	564.44 ug/L	6.610	564.44 ppb	6.610	1.17%
Sb 206.836†	8.2	-2.0220 ug/L	2.70047	-2.0220 ppb	2.70047	133.56%
Se 196.026†	-178.1	20.309 ug/L	3.3208	20.309 ppb	3.3208	16.35%
Si 251.611†	601291.0	20811 ug/L	7.2	20811 ppb	7.2	0.03%
Sn 189.927†	-87.0	-19.662 ug/L	1.7537	-19.662 ppb	1.7537	8.92%
Sr 421.552†	18539.5	133.39 ug/L	0.314	133.39 ppb	0.314	0.24%
Ti 334.940†	651578.0	1246.7 ug/L	1.33	1246.7 ppb	1.33	0.11%
Tl 190.801†	-50.2	-5.6719 ug/L	3.15236	-5.6719 ppb	3.15236	55.58%
U 409.014†	-2520.3	-86.309 ug/L	2.2526	-86.309 ppb	2.2526	2.61%
V 292.402†	13526.4	94.295 ug/L	0.7453	94.295 ppb	0.7453	0.79%
Zn 213.857†	21352.0	218.84 ug/L	0.705	218.84 ppb	0.705	0.32%
SiO2†	598898.7	44492 ug/L	751.5	44492 ppb	751.5	1.69%

Sequence No.: 45

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/2/2010 22:39:40

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4766.0	4766.0	98.2 %		22:41:31
1	Y RADIAL	4977.8	4977.8	97.79 %		22:41:31
1	Al 396.153Radial†	5219.7	5401.3	5007.0 ug/L	5007.0 ppb	22:41:31
1	Ca 317.933Radial†	2836.0	2872.6	5059.4 ug/L	5059.4 ppb	22:41:52
1	Fe 238.204 Radial†	482.8	482.9	5111.1 ug/L	5111.1 ppb	22:41:52
1	K 766.490 Radial†	28007.3	26356.7	5043.9 ug/L	5043.9 ppb	22:41:31
1	Mg 279.077 IEC†	128.4	127.8	5055.8 ug/L	5055.8 ppb	22:41:52
1	Na 589.592 Radial†	29504.4	30410.4	10290 ug/L	10290 ppb	22:41:31
1	Sr 421.552†	69897.8	71160.0	512.51 ug/L	512.51 ppb	22:41:31
1	Sc 361.383	787635.8	787635.8	99.635 %		22:42:49
1	Y 371.029	697456.6	697456.6	98.945 %		22:42:49
1	Ag 328.068†	100417.7	100577.0	495.92 ug/L	495.92 ppb	22:42:54
1	As 188.979†	1103.7	1136.0	502.11 ug/L	502.11 ppb	22:43:14
1	B 249.677†	19559.1	20115.8	484.68 ug/L	484.68 ppb	22:42:54
1	Ba 233.527†	43742.8	43908.5	497.87 ug/L	497.87 ppb	22:42:54
1	Be 313.107†	1265452.0	1280354.4	503.16 ug/L	503.16 ppb	22:42:49
1	Cd 226.502†	36235.2	36557.7	500.58 ug/L	500.58 ppb	22:42:54
1	Co 228.616†	17331.0	17460.2	507.45 ug/L	507.45 ppb	22:42:54
1	Cr 267.716†	37774.2	37850.0	500.52 ug/L	500.52 ppb	22:42:54
1	Cu 324.752†	145063.0	137878.5	489.20 ug/L	489.20 ppb	22:42:54
1	Mn 257.610†	323042.7	323791.8	496.95 ug/L	496.95 ppb	22:42:54
1	Mo 202.031†	5528.6	5540.7	495.26 ug/L	495.26 ppb	22:43:14
1	Ni 231.604†	16473.5	16465.3	513.00 ug/L	513.00 ppb	22:42:54
1	P 214.914†	4748.0	4544.4	2367.1 ug/L	2367.1 ppb	22:43:14
1	Pb 220.353†	3086.0	3158.6	503.37 ug/L	503.37 ppb	22:43:14
1	S 181.975 Axial†	829.9	785.7	1007.5 ug/L	1007.5 ppb	22:43:14
1	Sb 206.836†	1305.2	1276.0	507.75 ug/L	507.75 ppb	22:43:14
1	Se 196.026†	814.5	839.4	506.91 ug/L	506.91 ppb	22:43:14
1	Si 251.611†	71713.5	71440.6	2466.5 ug/L	2466.5 ppb	22:42:54
1	Sn 189.927†	2152.2	2154.3	495.43 ug/L	495.43 ppb	22:43:14
1	Ti 334.940†	255044.7	257101.8	491.06 ug/L	491.06 ppb	22:42:54
1	Tl 190.801†	1071.7	1106.9	500.98 ug/L	500.98 ppb	22:43:14
1	U 409.014†	13288.3	15528.6	490.12 ug/L	490.12 ppb	22:42:54
1	V 292.402†	63021.9	64854.7	503.52 ug/L	503.52 ppb	22:42:54
1	Zn 213.857†	47279.9	46696.4	493.75 ug/L	493.75 ppb	22:42:54
1	SiO2†	71492.4	71230.1	5278.2 ug/L	5278.2 ppb	22:44:21
2	Sc Radial	4790.2	4790.2	98.7 %		22:41:57
2	Y RADIAL	5044.4	5044.4	99.10 %		22:41:57
2	Al 396.153Radial†	5241.4	5396.3	5002.1 ug/L	5002.1 ppb	22:41:57
2	Ca 317.933Radial†	2793.6	2815.0	4958.0 ug/L	4958.0 ppb	22:42:17
2	Fe 238.204 Radial†	478.4	476.0	5038.0 ug/L	5038.0 ppb	22:42:17
2	K 766.490 Radial†	28199.2	26406.7	5053.6 ug/L	5053.6 ppb	22:41:57
2	Mg 279.077 IEC†	125.5	124.2	4913.4 ug/L	4913.4 ppb	22:42:17
2	Na 589.592 Radial†	29613.3	30368.6	10276 ug/L	10276 ppb	22:41:57
2	Sr 421.552†	70200.5	71106.3	512.12 ug/L	512.12 ppb	22:41:57
2	Sc 361.383	782672.7	782672.7	99.008 %		22:43:20
2	Y 371.029	692151.1	692151.1	98.193 %		22:43:20
2	Ag 328.068†	99188.7	99974.8	492.95 ug/L	492.95 ppb	22:43:25
2	As 188.979†	1110.2	1149.6	508.00 ug/L	508.00 ppb	22:43:45
2	B 249.677†	19319.2	19998.0	481.85 ug/L	481.85 ppb	22:43:25
2	Ba 233.527†	43188.2	43626.7	494.68 ug/L	494.68 ppb	22:43:25
2	Be 313.107†	1262171.5	1285094.8	505.01 ug/L	505.01 ppb	22:43:20
2	Cd 226.502†	35753.0	36301.2	497.08 ug/L	497.08 ppb	22:43:25
2	Co 228.616†	17114.9	17352.3	504.34 ug/L	504.34 ppb	22:43:25
2	Cr 267.716†	37303.7	37615.2	497.41 ug/L	497.41 ppb	22:43:25
2	Cu 324.752†	143298.2	137019.3	486.15 ug/L	486.15 ppb	22:43:25
2	Mn 257.610†	318766.8	321529.0	493.48 ug/L	493.48 ppb	22:43:25
2	Mo 202.031†	5560.6	5608.2	501.28 ug/L	501.28 ppb	22:43:45
2	Ni 231.604†	16243.0	16337.4	509.01 ug/L	509.01 ppb	22:43:25

2	P 214.914†	4775.2	4602.1	2399.0 ug/L	2399.0 ppb	22:43:45
2	Pb 220.353†	3073.6	3165.8	504.53 ug/L	504.53 ppb	22:43:45
2	S 181.975 Axial†	834.5	795.6	1020.2 ug/L	1020.2 ppb	22:43:45
2	Sb 206.836†	1304.7	1283.8	510.86 ug/L	510.86 ppb	22:43:45
2	Se 196.026†	823.5	853.6	515.11 ug/L	515.11 ppb	22:43:45
2	Si 251.611†	70688.6	70861.8	2446.4 ug/L	2446.4 ppb	22:43:25
2	Sn 189.927†	2136.2	2151.9	494.86 ug/L	494.86 ppb	22:43:45
2	Ti 334.940†	252037.0	255687.2	488.35 ug/L	488.35 ppb	22:43:25
2	Tl 190.801†	1076.4	1118.5	506.15 ug/L	506.15 ppb	22:43:45
2	U 409.014†	13157.2	15480.8	488.61 ug/L	488.61 ppb	22:43:25
2	V 292.402†	62454.9	64683.2	502.30 ug/L	502.30 ppb	22:43:25
2	Zn 213.857†	46728.6	46440.6	491.06 ug/L	491.06 ppb	22:43:25
2	SiO2†	71674.9	71869.5	5325.5 ug/L	5325.5 ppb	22:44:26
3	Sc Radial	4934.0	4934.0	102 %		22:42:22
3	Y RADIAL	5186.1	5186.1	101.9 %		22:42:22
3	Al 396.153Radial†	5255.6	5255.6	4870.9 ug/L	4870.9 ppb	22:42:22
3	Ca 317.933Radial†	2850.0	2788.0	4910.4 ug/L	4910.4 ppb	22:42:42
3	Fe 238.204 Radial†	488.0	471.3	4989.1 ug/L	4989.1 ppb	22:42:42
3	K 766.490 Radial†	28215.5	25590.0	4897.2 ug/L	4897.2 ppb	22:42:22
3	Mg 279.077 IEC†	130.0	124.8	4939.8 ug/L	4939.8 ppb	22:42:42
3	Na 589.592 Radial†	29602.4	29483.3	9976.1 ug/L	9976.1 ppb	22:42:22
3	Sr 421.552†	70290.2	69121.5	497.83 ug/L	497.83 ppb	22:42:22
3	Sc 361.383	778017.7	778017.7	98.419 %		22:43:50
3	Y 371.029	689250.2	689250.2	97.781 %		22:43:50
3	Ag 328.068†	101658.3	103083.5	508.21 ug/L	508.21 ppb	22:43:56
3	As 188.979†	1108.8	1155.0	510.47 ug/L	510.47 ppb	22:44:16
3	B 249.677†	19976.1	20782.1	500.80 ug/L	500.80 ppb	22:43:56
3	Ba 233.527†	44162.0	44877.2	508.85 ug/L	508.85 ppb	22:43:56
3	Be 313.107†	1262846.1	1293407.8	508.31 ug/L	508.31 ppb	22:43:50
3	Cd 226.502†	36438.1	37213.4	509.59 ug/L	509.59 ppb	22:43:56
3	Co 228.616†	17472.0	17818.5	517.86 ug/L	517.86 ppb	22:43:56
3	Cr 267.716†	38109.1	38659.0	511.21 ug/L	511.21 ppb	22:43:56
3	Cu 324.752†	147691.2	142348.8	505.05 ug/L	505.05 ppb	22:43:56
3	Mn 257.610†	326332.0	331142.0	508.22 ug/L	508.22 ppb	22:43:56
3	Mo 202.031†	5542.5	5623.4	502.63 ug/L	502.63 ppb	22:44:16
3	Ni 231.604†	16570.7	16768.4	522.44 ug/L	522.44 ppb	22:43:56
3	P 214.914†	4749.2	4604.5	2396.6 ug/L	2396.6 ppb	22:44:16
3	Pb 220.353†	3062.5	3173.0	505.65 ug/L	505.65 ppb	22:44:16
3	S 181.975 Axial†	823.3	789.3	1012.1 ug/L	1012.1 ppb	22:44:16
3	Sb 206.836†	1319.4	1306.6	519.66 ug/L	519.66 ppb	22:44:16
3	Se 196.026†	814.7	849.7	512.70 ug/L	512.70 ppb	22:44:16
3	Si 251.611†	72640.0	73271.8	2529.8 ug/L	2529.8 ppb	22:43:56
3	Sn 189.927†	2130.4	2158.9	496.47 ug/L	496.47 ppb	22:44:16
3	Ti 334.940†	258479.4	263756.2	503.75 ug/L	503.75 ppb	22:43:56
3	Tl 190.801†	1075.9	1124.4	508.93 ug/L	508.93 ppb	22:44:16
3	U 409.014†	13609.8	16020.2	505.67 ug/L	505.67 ppb	22:43:56
3	V 292.402†	63831.5	66459.3	515.95 ug/L	515.95 ppb	22:43:56
3	Zn 213.857†	47727.2	47737.6	504.80 ug/L	504.80 ppb	22:43:56
3	SiO2†	71396.4	72019.6	5336.6 ug/L	5336.6 ppb	22:44:31

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	782775.4	99.021 %	0.6084			0.61%
Sc Radial	4830.1	99.5 %	1.87			1.88%
Y 371.029	692952.6	98.307 %	0.5904			0.60%
Y RADIAL	5069.4	99.59 %	2.089			2.10%
Ag 328.068†	101211.8	499.03 ug/L	8.089	499.03 ppb	8.089	1.62%
QC value within limits for Ag 328.068 Recovery = 99.81%						
Al 396.153Radial†	5351.1	4960.0 ug/L	77.21	4960.0 ppb	77.21	1.56%
QC value within limits for Al 396.153Radial Recovery = 99.20%						
As 188.979†	1146.9	506.86 ug/L	4.294	506.86 ppb	4.294	0.85%
QC value within limits for As 188.979 Recovery = 101.37%						
B 249.677†	20298.6	489.11 ug/L	10.223	489.11 ppb	10.223	2.09%
QC value within limits for B 249.677 Recovery = 97.82%						
Ba 233.527†	44137.5	500.47 ug/L	7.434	500.47 ppb	7.434	1.49%
QC value within limits for Ba 233.527 Recovery = 100.09%						
Be 313.107†	1286285.7	505.50 ug/L	2.607	505.50 ppb	2.607	0.52%
QC value within limits for Be 313.107 Recovery = 101.10%						
Ca 317.933Radial†	2825.2	4975.9 ug/L	76.11	4975.9 ppb	76.11	1.53%

QC value within limits for Ca 317.933 Radial Recovery = 99.52%

Cd 226.502†	36690.7	502.42 ug/L	6.453	502.42 ppb	6.453	1.28%
QC value within limits for Cd 226.502 Recovery = 100.48%						
Co 228.616†	17543.7	509.88 ug/L	7.080	509.88 ppb	7.080	1.39%
QC value within limits for Co 228.616 Recovery = 101.98%						
Cr 267.716†	38041.4	503.05 ug/L	7.239	503.05 ppb	7.239	1.44%
QC value within limits for Cr 267.716 Recovery = 100.61%						
Cu 324.752†	139082.2	493.46 ug/L	10.145	493.46 ppb	10.145	2.06%
QC value within limits for Cu 324.752 Recovery = 98.69%						
Fe 238.204 Radial†	476.7	5046.1 ug/L	61.41	5046.1 ppb	61.41	1.22%
QC value within limits for Fe 238.204 Radial Recovery = 100.92%						
K 766.490 Radial†	26117.8	4998.2 ug/L	87.63	4998.2 ppb	87.63	1.75%
QC value within limits for K 766.490 Radial Recovery = 99.96%						
Mg 279.077 IEC†	125.6	4969.7 ug/L	75.75	4969.7 ppb	75.75	1.52%
QC value within limits for Mg 279.077 IEC Recovery = 99.39%						
Mn 257.610†	325487.6	499.55 ug/L	7.705	499.55 ppb	7.705	1.54%
QC value within limits for Mn 257.610 Recovery = 99.91%						
Mo 202.031†	5590.7	499.72 ug/L	3.927	499.72 ppb	3.927	0.79%
QC value within limits for Mo 202.031 Recovery = 99.94%						
Na 589.592 Radial†	30087.4	10180 ug/L	177.2	10180 ppb	177.2	1.74%
QC value within limits for Na 589.592 Radial Recovery = 101.80%						
Ni 231.604†	16523.7	514.82 ug/L	6.898	514.82 ppb	6.898	1.34%
QC value within limits for Ni 231.604 Recovery = 102.96%						
P 214.914†	4583.7	2387.6 ug/L	17.77	2387.6 ppb	17.77	0.74%
QC value within limits for P 214.914 Recovery = 95.50%						
Pb 220.353†	3165.8	504.52 ug/L	1.138	504.52 ppb	1.138	0.23%
QC value within limits for Pb 220.353 Recovery = 100.90%						
S 181.975 Axial†	790.2	1013.3 ug/L	6.44	1013.3 ppb	6.44	0.64%
QC value within limits for S 181.975 Axial Recovery = 101.33%						
Sb 206.836†	1288.8	512.76 ug/L	6.178	512.76 ppb	6.178	1.20%
QC value within limits for Sb 206.836 Recovery = 102.55%						
Se 196.026†	847.5	511.57 ug/L	4.210	511.57 ppb	4.210	0.82%
QC value within limits for Se 196.026 Recovery = 102.31%						
Si 251.611†	71858.0	2480.9 ug/L	43.52	2480.9 ppb	43.52	1.75%
QC value within limits for Si 251.611 Recovery = 99.24%						
Sn 189.927†	2155.0	495.59 ug/L	0.818	495.59 ppb	0.818	0.17%
QC value within limits for Sn 189.927 Recovery = 99.12%						
Sr 421.552†	70462.6	507.49 ug/L	8.367	507.49 ppb	8.367	1.65%
QC value within limits for Sr 421.552 Recovery = 101.50%						
Ti 334.940†	258848.4	494.39 ug/L	8.220	494.39 ppb	8.220	1.66%
QC value within limits for Ti 334.940 Recovery = 98.88%						
Tl 190.801†	1116.6	505.35 ug/L	4.035	505.35 ppb	4.035	0.80%
QC value within limits for Tl 190.801 Recovery = 101.07%						
U 409.014†	15676.5	494.80 ug/L	9.446	494.80 ppb	9.446	1.91%
QC value within limits for U 409.014 Recovery = 98.96%						
V 292.402†	65332.4	507.26 ug/L	7.552	507.26 ppb	7.552	1.49%
QC value within limits for V 292.402 Recovery = 101.45%						
Zn 213.857†	46958.2	496.54 ug/L	7.282	496.54 ppb	7.282	1.47%
QC value within limits for Zn 213.857 Recovery = 99.31%						
SiO2†	71706.4	5313.4 ug/L	31.04	5313.4 ppb	31.04	0.58%
QC value within limits for SiO2 Recovery = 99.36%						

All analyte(s) passed QC.

Sequence No.: 46

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/2/2010 22:46:42

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4722.6	4722.6	97.3 %		22:48:33
1	Y RADIAL	4972.2	4972.2	97.68 %		22:48:33
1	Al 396.153Radial†	-85.2	-1.7	-1.6330 ug/L	-1.6330 ppb	22:48:53
1	Ca 317.933Radial†	22.8	8.0	14.162 ug/L	14.162 ppb	22:48:53
1	Fe 238.204 Radial†	8.4	-0.1	-0.8513 ug/L	-0.8513 ppb	22:48:53
1	K 766.490 Radial†	2162.0	57.4	10.994 ug/L	10.994 ppb	22:48:33
1	Mg 279.077 IEC†	3.1	0.2	7.8492 ug/L	7.8492 ppb	22:48:53
1	Na 589.592 Radial†	-398.6	-45.0	-15.224 ug/L	-15.224 ppb	22:48:33
1	Sr 421.552†	47.7	28.7	0.2066 ug/L	0.2066 ppb	22:48:33
1	Sc 361.383	774205.3	774205.3	97.937 %		22:49:50
1	Y 371.029	692783.5	692783.5	98.283 %		22:49:50
1	Ag 328.068†	272.6	70.3	0.3459 ug/L	0.3459 ppb	22:49:50
1	As 188.979†	-23.5	4.3	1.8723 ug/L	1.8723 ppb	22:50:10
1	B 249.677†	-361.1	116.4	2.8166 ug/L	2.8166 ppb	22:50:10
1	Ba 233.527†	-3.3	2.3	0.0261 ug/L	0.0261 ppb	22:50:10
1	Be 313.107†	-9857.4	207.2	0.0812 ug/L	0.0812 ppb	22:49:50
1	Cd 226.502†	-179.8	6.3	0.0857 ug/L	0.0857 ppb	22:50:10
1	Co 228.616†	-44.2	20.7	0.6035 ug/L	0.6035 ppb	22:50:10
1	Cr 267.716†	70.6	9.7	0.1289 ug/L	0.1289 ppb	22:50:10
1	Cu 324.752†	7605.6	50.6	0.1805 ug/L	0.1805 ppb	22:49:50
1	Mn 257.610†	481.5	58.8	0.0898 ug/L	0.0898 ppb	22:50:10
1	Mo 202.031†	20.8	13.1	1.1679 ug/L	1.1679 ppb	22:50:10
1	Ni 231.604†	80.2	13.4	0.4168 ug/L	0.4168 ppb	22:50:10
1	P 214.914†	213.1	-3.4	-1.8614 ug/L	-1.8614 ppb	22:50:10
1	Pb 220.353†	-49.7	10.6	1.6901 ug/L	1.6901 ppb	22:50:10
1	S 181.975 Axial†	45.1	-1.2	-1.5312 ug/L	-1.5312 ppb	22:50:10
1	Sb 206.836†	36.4	3.1	1.2294 ug/L	1.2294 ppb	22:50:10
1	Se 196.026†	-23.0	-1.6	-0.9651 ug/L	-0.9651 ppb	22:50:10
1	Si 251.611†	591.3	68.4	2.3531 ug/L	2.3531 ppb	22:50:10
1	Sn 189.927†	6.1	0.4	0.1005 ug/L	0.1005 ppb	22:50:10
1	Ti 334.940†	-1112.5	-11.9	-0.0207 ug/L	-0.0207 ppb	22:49:50
1	Tl 190.801†	-28.5	2.1	0.9584 ug/L	0.9584 ppb	22:50:10
1	U 409.014†	-2204.8	-59.6	-1.8866 ug/L	-1.8866 ppb	22:49:50
1	V 292.402†	-1565.1	4.2	0.0452 ug/L	0.0452 ppb	22:49:50
1	Zn 213.857†	797.4	57.8	0.6138 ug/L	0.6138 ppb	22:50:10
1	SiO2†	586.2	74.8	5.5214 ug/L	5.5214 ppb	22:51:06
2	Sc Radial	4753.6	4753.6	97.9 %		22:48:58
2	Y RADIAL	5003.0	5003.0	98.28 %		22:48:58
2	Al 396.153Radial†	-84.7	-0.6	-0.5911 ug/L	-0.5911 ppb	22:49:18
2	Ca 317.933Radial†	21.3	6.4	11.204 ug/L	11.204 ppb	22:49:18
2	Fe 238.204 Radial†	7.8	-0.7	-7.7828 ug/L	-7.7828 ppb	22:49:18
2	K 766.490 Radial†	2196.4	78.0	14.959 ug/L	14.959 ppb	22:48:58
2	Mg 279.077 IEC†	0.9	-2.1	-81.865 ug/L	-81.865 ppb	22:49:18
2	Na 589.592 Radial†	-449.8	-94.6	-32.025 ug/L	-32.025 ppb	22:48:58
2	Sr 421.552†	51.1	31.9	0.2299 ug/L	0.2299 ppb	22:48:58
2	Sc 361.383	771963.2	771963.2	97.653 %		22:50:15
2	Y 371.029	691710.2	691710.2	98.130 %		22:50:15
2	Ag 328.068†	195.5	-7.9	-0.0362 ug/L	-0.0362 ppb	22:50:15
2	As 188.979†	-28.4	-0.8	-0.3425 ug/L	-0.3425 ppb	22:50:35
2	B 249.677†	-365.2	111.2	2.6922 ug/L	2.6922 ppb	22:50:35
2	Ba 233.527†	7.8	13.6	0.1538 ug/L	0.1538 ppb	22:50:35
2	Be 313.107†	-9733.0	305.4	0.1197 ug/L	0.1197 ppb	22:50:15
2	Cd 226.502†	-182.2	3.3	0.0447 ug/L	0.0447 ppb	22:50:35
2	Co 228.616†	-54.0	10.5	0.3063 ug/L	0.3063 ppb	22:50:35
2	Cr 267.716†	63.7	2.9	0.0402 ug/L	0.0402 ppb	22:50:35
2	Cu 324.752†	7580.7	47.7	0.1726 ug/L	0.1726 ppb	22:50:15
2	Mn 257.610†	447.8	25.6	0.0419 ug/L	0.0419 ppb	22:50:35
2	Mo 202.031†	9.8	1.9	0.1720 ug/L	0.1720 ppb	22:50:35
2	Ni 231.604†	75.7	9.0	0.2814 ug/L	0.2814 ppb	22:50:35

2	P 214.914†	199.4	-16.8	-9.1105 ug/L	-9.1105 ppb	22:50:35
2	Pb 220.353†	-62.7	-2.9	-0.4606 ug/L	-0.4606 ppb	22:50:35
2	S 181.975 Axial†	47.7	1.6	2.0064 ug/L	2.0064 ppb	22:50:35
2	Sb 206.836†	29.5	-3.8	-1.4138 ug/L	-1.4138 ppb	22:50:35
2	Se 196.026†	-20.2	1.1	0.6509 ug/L	0.6509 ppb	22:50:35
2	Si 251.611†	572.3	50.8	1.7547 ug/L	1.7547 ppb	22:50:35
2	Sn 189.927†	15.4	10.1	2.3121 ug/L	2.3121 ppb	22:50:35
2	Ti 334.940†	-1113.2	-16.0	-0.0193 ug/L	-0.0193 ppb	22:50:15
2	Tl 190.801†	-32.5	-2.1	-0.9381 ug/L	-0.9381 ppb	22:50:35
2	U 409.014†	-2352.8	-217.6	-6.8905 ug/L	-6.8905 ppb	22:50:15
2	V 292.402†	-1586.9	-22.8	-0.1861 ug/L	-0.1861 ppb	22:50:15
2	Zn 213.857†	798.3	61.1	0.6512 ug/L	0.6512 ppb	22:50:35
2	SiO2†	581.2	71.4	5.2975 ug/L	5.2975 ppb	22:51:11
3	Sc Radial	4841.6	4841.6	99.8 %		22:49:23
3	Y RADIAL	5111.4	5111.4	100.4 %		22:49:23
3	Al 396.153Radial†	-79.3	6.4	5.8888 ug/L	5.8888 ppb	22:49:43
3	Ca 317.933Radial†	22.0	6.7	11.813 ug/L	11.813 ppb	22:49:43
3	Fe 238.204 Radial†	6.2	-2.5	-26.892 ug/L	-26.892 ppb	22:49:43
3	K 766.490 Radial†	2230.4	71.4	13.687 ug/L	13.687 ppb	22:49:23
3	Mg 279.077 IEC†	1.8	-1.3	-49.869 ug/L	-49.869 ppb	22:49:43
3	Na 589.592 Radial†	-446.9	-83.3	-28.201 ug/L	-28.201 ppb	22:49:23
3	Sr 421.552†	52.7	32.6	0.2345 ug/L	0.2345 ppb	22:49:23
3	Sc 361.383	777497.5	777497.5	98.353 %		22:50:41
3	Y 371.029	696600.8	696600.8	98.824 %		22:50:41
3	Ag 328.068†	111.1	-95.1	-0.4776 ug/L	-0.4776 ppb	22:50:41
3	As 188.979†	-23.0	5.0	2.1704 ug/L	2.1704 ppb	22:51:01
3	B 249.677†	-367.3	111.7	2.7084 ug/L	2.7084 ppb	22:51:01
3	Ba 233.527†	2.9	8.7	0.0966 ug/L	0.0966 ppb	22:51:01
3	Be 313.107†	-9682.5	427.6	0.1675 ug/L	0.1675 ppb	22:50:41
3	Cd 226.502†	-179.1	7.7	0.1091 ug/L	0.1091 ppb	22:51:01
3	Co 228.616†	-57.1	7.8	0.2299 ug/L	0.2299 ppb	22:51:01
3	Cr 267.716†	49.8	-11.7	-0.1571 ug/L	-0.1571 ppb	22:51:01
3	Cu 324.752†	7617.8	30.2	0.1040 ug/L	0.1040 ppb	22:50:41
3	Mn 257.610†	477.2	52.3	0.0796 ug/L	0.0796 ppb	22:51:01
3	Mo 202.031†	21.6	13.9	1.2361 ug/L	1.2361 ppb	22:51:01
3	Ni 231.604†	62.6	-4.8	-0.1494 ug/L	-0.1494 ppb	22:51:01
3	P 214.914†	206.3	-11.2	-6.0880 ug/L	-6.0880 ppb	22:51:01
3	Pb 220.353†	-57.5	2.9	0.4602 ug/L	0.4602 ppb	22:51:01
3	S 181.975 Axial†	42.8	-3.7	-4.7842 ug/L	-4.7842 ppb	22:51:01
3	Sb 206.836†	40.7	7.3	2.8447 ug/L	2.8447 ppb	22:51:01
3	Se 196.026†	-19.2	2.4	1.3303 ug/L	1.3303 ppb	22:51:01
3	Si 251.611†	573.5	47.8	1.6396 ug/L	1.6396 ppb	22:51:01
3	Sn 189.927†	5.0	-0.7	-0.1529 ug/L	-0.1529 ppb	22:51:01
3	Ti 334.940†	-1148.9	-44.2	-0.0800 ug/L	-0.0800 ppb	22:50:41
3	Tl 190.801†	-43.8	-13.3	-5.9820 ug/L	-5.9820 ppb	22:51:01
3	U 409.014†	-2061.7	95.5	3.0279 ug/L	3.0279 ppb	22:50:41
3	V 292.402†	-1598.6	-23.1	-0.1507 ug/L	-0.1507 ppb	22:50:41
3	Zn 213.857†	791.8	48.6	0.5233 ug/L	0.5233 ppb	22:51:01
3	SiO2†	568.6	54.2	3.9957 ug/L	3.9957 ppb	22:51:16

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	774555.4	97.981 %		0.3521			0.36%
Sc Radial	4772.6	98.3 %		1.27			1.29%
Y 371.029	693698.2	98.412 %		0.3647			0.37%
Y RADIAL	5028.8	98.79 %		1.436			1.45%
Ag 328.068†	-10.9	-0.0560 ug/L		0.41207	-0.0560 ppb	0.41207	736.21%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	1.4	1.2216 ug/L		4.07536	1.2216 ppb	4.07536	333.62%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	2.8	1.2334 ug/L		1.37290	1.2334 ppb	1.37290	111.31%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	113.1	2.7391 ug/L		0.06764	2.7391 ppb	0.06764	2.47%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	8.2	0.0922 ug/L		0.06393	0.0922 ppb	0.06393	69.37%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	313.4	0.1228 ug/L		0.04322	0.1228 ppb	0.04322	35.20%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	7.0	12.393 ug/L		1.5620	12.393 ppb	1.5620	12.60%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	5.8	0.0798 ug/L	0.03259	0.0798 ppb	0.03259	40.84%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	13.0	0.3799 ug/L	0.19734	0.3799 ppb	0.19734	51.95%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	0.3	0.0040 ug/L	0.14640	0.0040 ppb	0.14640	>999.9%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	42.8	0.1524 ug/L	0.04210	0.1524 ppb	0.04210	27.64%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.1	-11.842 ug/L	13.4867	-11.842 ppb	13.4867	113.89%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	68.9	13.213 ug/L	2.0245	13.213 ppb	2.0245	15.32%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-1.0	-41.295 ug/L	45.4673	-41.295 ppb	45.4673	110.10%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	45.6	0.0704 ug/L	0.02523	0.0704 ppb	0.02523	35.83%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	9.6	0.8587 ug/L	0.59569	0.8587 ppb	0.59569	69.37%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-74.3	-25.150 ug/L	8.8062	-25.150 ppb	8.8062	35.01%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	5.9	0.1829 ug/L	0.29567	0.1829 ppb	0.29567	161.63%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-10.5	-5.6866 ug/L	3.64121	-5.6866 ppb	3.64121	64.03%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	3.5	0.5633 ug/L	1.07904	0.5633 ppb	1.07904	191.57%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-1.1	-1.4364 ug/L	3.39629	-1.4364 ppb	3.39629	236.45%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	2.2	0.8868 ug/L	2.14982	0.8868 ppb	2.14982	242.43%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.6	0.3387 ug/L	1.17911	0.3387 ppb	1.17911	348.11%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	55.7	1.9158 ug/L	0.38303	1.9158 ppb	0.38303	19.99%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	3.3	0.7532 ug/L	1.35596	0.7532 ppb	1.35596	180.02%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	31.1	0.2237 ug/L	0.01495	0.2237 ppb	0.01495	6.68%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-24.0	-0.0400 ug/L	0.03462	-0.0400 ppb	0.03462	86.51%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-4.4	-1.9872 ug/L	3.58715	-1.9872 ppb	3.58715	180.51%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-60.6	-1.9164 ug/L	4.95928	-1.9164 ppb	4.95928	258.78%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-13.9	-0.0972 ug/L	0.12457	-0.0972 ppb	0.12457	128.12%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	55.8	0.5961 ug/L	0.06575	0.5961 ppb	0.06575	11.03%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	66.8	4.9382 ug/L	0.82387	4.9382 ppb	0.82387	16.68%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

ICPMS#3 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Friday, March 05, 2010 12:01:58

Sample Description:

Method File: c:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.6371

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		350.8		350.804		7.260		2.1
	Mg	24.0		4569.5		4569.531		137.006		3.0
	Co	58.9		11603.5		11603.512		227.745		2.0
	Rh	102.9		32899.0		32899.039		157.785		0.5
	In	114.9		43053.6		43053.585		460.185		1.1
	Pb	208.0		35947.0		35946.973		345.598		1.0
[>	Ba	137.9		39294.3		39294.316		172.202		0.4
[	Ba++	69.0		1062.1		0.027		0.001		2.3
[>	Ce	139.9		51981.2		51981.213		682.835		1.3
[	CeO	155.9		1179.6		0.023		0.000		2.1
	Bkgd	220.0		1.2		1.200		0.908		75.7

Current Optimization File Data

Current Value	Description
1.01	Nebulizer Gas Flow
7.20	Lens Voltage
1450.00	ICP RF Power
-1855.00	Analog Stage Voltage
1350.00	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	21	7.0	460.7
Co	59	21	8.0	14339.2
In	115	21	9.0	66134.1

ICPMS#3 Instrument Tuning Report

File Name: 100305.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	586	2060	0.636
Be	9.0	9.0	2074	2040	0.631
Mg	24.0	24.0	5722	2110	0.621
Mg	25.0	24.9	5888	2020	0.665
Mg	26.0	25.9	6211	2140	0.642
Co	58.9	58.9	14202	2115	0.651
Rh	102.9	102.9	24907	2165	0.662
In	114.9	114.9	27825	2180	0.661
Ce	139.9	139.8	33908	2220	0.627
Pb	206.0	206.0	49992	2280	0.646
Pb	207.0	207.0	50284	2310	0.644
Pb	208.0	208.0	50486	2300	0.656
U	238.1	238.1	57848	2340	0.681

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, March 05, 2010 12:28:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\Blank.006

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		114490	
[TI	205		ug/L		686	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
TI	205	Linear Thru Zero	

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	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, March 05, 2010 12:30:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\Standard 1.007

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		115437	115437.013
[	Tl	205	10.000 ug/L	2.190	55575	0.475

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				
[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

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, March 05, 2010 12:32:24

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\Standard 2.008

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		116908	116907.950
[	TI	205	99.994 ug/L	0.297	552983	4.724

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: Friday, March 05, 2010 12:34:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\QC Std 1.009

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		120769	120769.131
[	TI	205	50.191 ug/L	0.650	287123	2.371

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		105.5		
[	TI	205	100.382			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, March 05, 2010 12:36:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\QC Std 2.010

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		114698	114698.220
[	TI	205	0.208 ug/L	2.953	1816	0.010

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		100.2		
[	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: Friday, March 05, 2010 12:36:58

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ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Friday, March 05, 2010 12:38:58

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\QC Std 3.011

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		115191	115190.666
[TI 205	1.096	ug/L	2.721	6661	0.052

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		109.647								

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: Friday, March 05, 2010 12:41:08

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\QC Std 4.012

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		102021	102021.488
[	Tl	205	ug/L	46.346	511	-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		89.1		
[	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 5

Sample Date/Time: Friday, March 05, 2010 12:43:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\QC Std 5.013

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		101755	101755.219
[	TI	205	ug/L	0.289	93547	0.913

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		88.9		
[	TI	205	96.662			

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: Friday, March 05, 2010 12:43:31

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ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, March 05, 2010 12:45:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\QC Std 6.014

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		116691	116690.864
[	TI	205	ug/L	0.436	277076	2.369

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		101.9		
[TI	205	100.280			

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 6

Report Date/Time: Friday, March 05, 2010 12:45:43

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, March 05, 2010 12:47:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\QC Std 7.015

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		116479	116478.968
[TI 205	0.172	ug/L	4.071	1645	0.008

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		101.7			
[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: 1202036266

Sample Date/Time: Friday, March 05, 2010 12:50:58

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 950262|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\1202036266.016

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		117859	117859.366
[TI	205	0.049	ug/L	18.552	978	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		102.9			
[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: 1202036271

Sample Date/Time: Friday, March 05, 2010 12:53:09

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 950262|40|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\1202036271.017

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		117688	117688.076
|	Tl	205	30.365 ug/L	1.073	169475	1.435

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		102.8		
|	Tl	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 246322001

Sample Date/Time: Friday, March 05, 2010 13:02:50

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\246322001.021

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		123949	123948.826
[TI	205	0.094	ug/L	5.031	1295	0.004

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			108.3		
[TI	205					

QC Out Of Limits

Measurement Type: Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202036267

Sample Date/Time: Friday, March 05, 2010 13:05:04

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 950262|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\1202036267.022

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		123414	123414.413
[	TI	205	0.086 ug/L	8.882	1243	0.004

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		107.8		
[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

ICPMS#3 - Summary Report

Sample ID: 1202036269

Sample Date/Time: Friday, March 05, 2010 13:07:16

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 950262|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\1202036269.023

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		124770	124770.068
[TI 205	50.450	ug/L	1.553	297995	2.383

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		109.0			
[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: 1202036270

Sample Date/Time: Friday, March 05, 2010 13:09:28

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 950262|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\1202036270.024

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		121680	121680.429
[	TI	205	49.869 ug/L	0.391	287375	2.356

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		106.3		
[	TI	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202036268

Sample Date/Time: Friday, March 05, 2010 13:11:40

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 950262|10|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\1202036268.025

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		123497	123497.005
[TI 205	0.153	ug/L	8.708	1631	0.007

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		107.9			
[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 6

Sample Date/Time: Friday, March 05, 2010 13:13:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\QC Std 6.026

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		118589	118589.372
[TI	205	50.255	ug/L	0.239	282279	2.374

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			103.6		
[TI	205	100.509				

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: Friday, March 05, 2010 13:14:03

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ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, March 05, 2010 13:16:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\QC Std 7.027

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		117759	117758.957
[TI 205	0.146	ug/L	2.352	1518	0.007

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		102.9			
[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: 246322002

Sample Date/Time: Friday, March 05, 2010 13:18:18

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\246322002.028

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		127386	127385.989
[	TI	205	0.286 ug/L	5.598	2484	0.013

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		111.3		
[	TI	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 246322003

Sample Date/Time: Friday, March 05, 2010 13:20:31

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\246322003.029

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		123719	123719.093
[	TI	205	0.126 ug/L	8.257	1480	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		108.1		
[	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: 246322005

Sample Date/Time: Friday, March 05, 2010 13:22:45

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\246322005.030

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		123677	123677.070
[	TI	205	0.080 ug/L	8.445	1210	0.004

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		108.0		
[	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: 246322006

Sample Date/Time: Friday, March 05, 2010 13:24:59

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\246322006.031

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		123143	123143.283
[	Tl	205	0.261 ug/L	5.276	2256	0.012

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		107.6		
[	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: 246322007

Sample Date/Time: Friday, March 05, 2010 13:27:12

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\246322007.032

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		123837	123837.397
[	TI	205	0.138 ug/L	6.922	1553	0.007

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		108.2		
[	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: 246322007

Report Date/Time: Friday, March 05, 2010 13:27:24

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ICPMS#3 - Summary Report

Sample ID: 246322008

Sample Date/Time: Friday, March 05, 2010 13:29:24

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\246322008.033

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		126462	126461.696
[	Tl	205	0.256 ug/L	4.357	2288	0.012

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		110.5		
[	Tl	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 246322009

Sample Date/Time: Friday, March 05, 2010 13:31:37

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\246322009.034

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		122363	122363.204
[	Tl	205	ug/L	14.748	1200	0.004

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		106.9		
[	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: Friday, March 05, 2010 13:33:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\QC Std 6.035

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		120821	120820.572
[	TI	205	50.048 ug/L	0.498	286423	2.364

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		105.5		
[	TI	205	100.096			

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: Friday, March 05, 2010 13:34:01

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ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, March 05, 2010 13:36:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: C:\elandata\Dataset\100305\QC Std 7.036

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		117674	117674.462
|	Tl	205	0.083 ug/L	6.082	1166	0.004

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		102.8		
|	Tl	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, March 05, 2010 22:51:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\Blank.6436

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9		ug/L		1	
|> Sc	45		ug/L		132911	
| Cr	52		ug/L		704	
| Cr	53		ug/L		18947	
[Ni	60		ug/L		7	
|> Ge	74		ug/L		61030	
| As	75		ug/L		111	
| Se	77		ug/L		664	
| Se	82		ug/L		-2	
[Kr	83		ug/L		21	
| Ag	107		ug/L		9	
| Cd	111		ug/L		7	
| Cd	114		ug/L		8	
|> In	115		ug/L		41394	
[Ba	135		ug/L		3	
| Ba	137		ug/L		9	
|> Lu	175		ug/L		84560	
| Tl	205		ug/L		224	
Pb	208		ug/L		160	
[U	238		ug/L		72	

Sample ID: Blank

Report Date/Time: Friday, March 05, 2010 22:52:33

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45				
|	Cr	52				
|	Cr	53				
|	Ni	60				
|>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Ag	107				
|	Cd	111				
|	Cd	114				
|>	In	115				
|	Ba	135				
|	Ba	137				
|>	Lu	175				
|	Tl	205				
|	Pb	208				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, March 05, 2010 22:55:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\Standard 1.6437

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	10.000 ug/L	9.380	310	0.002
>	Sc	45	ug/L		132629	132629.221
|	Cr	52	10.000 ug/L	0.726	9832	0.069
|	Cr	53	ug/L		19929	0.008
[	Ni	60	10.000 ug/L	4.497	1607	0.012
>	Ge	74	ug/L		62002	62001.882
|	As	75	10.000 ug/L	2.758	2033	0.031
|	Se	77	ug/L		796	0.002
|	Se	82	10.000 ug/L	11.387	128	0.002
[	Kr	83	ug/L		14	-0.000
[	Ag	107	10.000 ug/L	3.178	9420	0.223
|	Cd	111	10.000 ug/L	4.660	2426	0.057
|	Cd	114	ug/L		5796	0.137
>	In	115	ug/L		42252	42251.813
[	Ba	135	ug/L		2339	0.027
|	Ba	137	10.000 ug/L	1.444	4155	0.048
>	Lu	175	ug/L		86459	86459.408
|	Tl	205	10.000 ug/L	1.731	42597	0.490
|	Pb	208	10.000 ug/L	1.793	51818	0.598
[U	238	10.000 ug/L	1.601	63164	0.730

Sample ID: Standard 1

Report Date/Time: Friday, March 05, 2010 22:56:56

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45				
|	Cr	52				
|	Cr	53				
|	Ni	60				
|>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Ag	107				
|	Cd	111				
|	Cd	114				
|>	In	115				
|	Ba	135				
|	Ba	137				
|>	Lu	175				
|	Tl	205				
|	Pb	208				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, March 05, 2010 22:59:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\Standard 2.6438

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	99.945	ug/L	5.580	2967	0.022
> Sc	45		ug/L		134251	134251.266
| Cr	52	99.994	ug/L	2.841	92503	0.684
| Cr	53		ug/L		28914	0.073
| Ni	60	99.977	ug/L	0.527	15853	0.118
> Ge	74		ug/L		62964	62964.109
| As	75	99.985	ug/L	0.426	19324	0.305
| Se	77		ug/L		2041	0.022
| Se	82	100.114	ug/L	2.586	1488	0.024
| Kr	83		ug/L		22	-0.000
| Ag	107	99.995	ug/L	0.811	95303	2.216
| Cd	111	99.991	ug/L	2.087	24416	0.568
| Cd	114		ug/L		57440	1.336
> In	115		ug/L		43002	43002.213
| Ba	135		ug/L		23871	0.268
| Ba	137	99.987	ug/L	0.770	42236	0.473
> Lu	175		ug/L		89177	89176.795
| Tl	205	99.982	ug/L	1.114	429486	4.814
| Pb	208	99.988	ug/L	0.763	526558	5.903
U	238	99.987	ug/L	0.429	642427	7.203

Sample ID: Standard 2

Report Date/Time: Friday, March 05, 2010 23:01:19

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be		9				
[>	Sc		45				
|	Cr		52				
|	Cr		53				
[	Ni		60				
[>	Ge		74				
|	As		75				
|	Se		77				
|	Se		82				
[	Kr		83				
[	Ag		107				
|	Cd		111				
|	Cd		114				
[>	In		115				
[	Ba		135				
|	Ba		137				
[>	Lu		175				
|	Tl		205				
|	Pb		208				
[	U		238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Friday, March 05, 2010 23:04:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\QC Std 1.6439

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	52.166 ug/L	6.787	1545	0.012
>	Sc	45	ug/L		133825	133825.380
|	Cr	52	51.727 ug/L	2.125	48043	0.354
|	Cr	53	ug/L		24032	0.037
[	Ni	60	52.724 ug/L	2.124	8334	0.062
>	Ge	74	ug/L		62817	62817.105
|	As	75	49.447 ug/L	0.413	9592	0.151
|	Se	77	ug/L		1363	0.011
|	Se	82	51.976 ug/L	6.240	770	0.012
[	Kr	83	ug/L		16	-0.000
>	Ag	107	50.555 ug/L	1.719	47611	1.120
|	Cd	111	51.795 ug/L	1.785	12499	0.294
|	Cd	114	ug/L		29770	0.700
>	In	115	ug/L		42490	42489.713
[	Ba	135	ug/L		12155	0.139
|	Ba	137	50.943 ug/L	1.796	21099	0.241
>	Lu	175	ug/L		87442	87442.034
|	Tl	205	50.251 ug/L	0.797	211813	2.420
|	Pb	208	51.607 ug/L	0.690	266582	3.047
[U	238	54.857 ug/L	1.934	345579	3.952

Sample ID: QC Std 1

Report Date/Time: Friday, March 05, 2010 23:05:43

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	104.331				
[>	Sc	45		100.7			
|	Cr	52	103.455				
|	Cr	53					
[	Ni	60	105.449				
[>	Ge	74		102.9			
|	As	75	98.895				
|	Se	77					
|	Se	82	103.953				
|	Kr	83					
[	Ag	107	101.109				
|	Cd	111	103.590				
|	Cd	114					
[>	In	115		102.6			
[	Ba	135					
|	Ba	137	101.886				
[>	Lu	175		103.4			
|	Tl	205	100.502				
|	Pb	208	103.214				
[	U	238	109.715				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Friday, March 05, 2010 23:08:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\QC Std 2.6440

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.058 ug/L	125.493	2	0.000
>	Sc	45	ug/L		131504	131504.343
|	Cr	52	0.095 ug/L	62.952	783	0.001
|	Cr	53	ug/L		18160	-0.004
[	Ni	60	0.003 ug/L	871.187	7	0.000
>	Ge	74	ug/L		61235	61235.249
|	As	75	0.930 ug/L	34.875	285	0.003
|	Se	77	ug/L		699	0.001
|	Se	82	1.458 ug/L	37.396	19	0.000
[	Kr	83	ug/L		13	-0.000
[	Ag	107	0.003 ug/L	115.320	12	0.000
|	Cd	111	-0.002 ug/L	290.500	6	-0.000
|	Cd	114	ug/L		7	-0.000
>	In	115	ug/L		41390	41390.045
[	Ba	135	ug/L		4	0.000
|	Ba	137	-0.002 ug/L	533.353	9	-0.000
>	Lu	175	ug/L		84544	84544.327
|	Tl	205	0.259 ug/L	9.183	1281	0.012
|	Pb	208	0.004 ug/L	122.292	180	0.000
[U	238	0.004 ug/L	53.529	98	0.000

Sample ID: QC Std 2

Report Date/Time: Friday, March 05, 2010 23:10:12

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
[>	Sc	45		98.9		
|	Cr	52				
|	Cr	53				
|	Ni	60				
[>	Ge	74		100.3		
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[	Ag	107				
|	Cd	111				
|	Cd	114				
[>	In	115		100.0		
[	Ba	135				
|	Ba	137				
[>	Lu	175		100.0		
|	Tl	205				
|	Pb	208				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Friday, March 05, 2010 23:13:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\QC Std 3.6441

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.580	ug/L	16.679	18	0.000
>	Sc 45		ug/L		132577	132576.771
|	Cr 52	11.157	ug/L	0.371	10819	0.076
|	Cr 53		ug/L		19553	0.005
[	Ni 60	2.235	ug/L	5.223	356	0.003
>	Ge 74		ug/L		60802	60802.056
|	As 75	5.952	ug/L	9.151	1215	0.018
|	Se 77		ug/L		756	0.002
|	Se 82	5.500	ug/L	27.403	77	0.001
[	Kr 83		ug/L		15	-0.000
|	Ag 107	1.058	ug/L	3.472	983	0.023
|	Cd 111	1.155	ug/L	5.552	279	0.007
|	Cd 114		ug/L		623	0.015
>	In 115		ug/L		41522	41521.503
|	Ba 135		ug/L		503	0.006
|	Ba 137	2.199	ug/L	1.813	894	0.010
>	Lu 175		ug/L		84999	84998.975
|	Tl 205	1.198	ug/L	0.676	5130	0.058
|	Pb 208	2.247	ug/L	1.064	11436	0.133
[U 238	0.248	ug/L	1.933	1591	0.018

Sample ID: QC Std 3

Report Date/Time: Friday, March 05, 2010 23:14:37

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	115.981				
>	Sc	45			99.7		
|	Cr	52	111.567				
|	Cr	53					
[	Ni	60	111.736				
>	Ge	74			99.6		
|	As	75	119.044				
|	Se	77					
|	Se	82	110.000				
[	Kr	83					
[	Ag	107	105.806				
|	Cd	111	115.455				
|	Cd	114					
>	In	115			100.3		
[	Ba	135					
|	Ba	137	109.937				
>	Lu	175			100.5		
|	Tl	205	119.848				
|	Pb	208	112.341				
[	U	238	124.014				

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: Friday, March 05, 2010 23:17:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\QC Std 4.6442

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.110	ug/L	118.102	3	0.000
[>	Sc 45		ug/L		115138	115138.391
|	Cr 52	2.329	ug/L	1.675	2445	0.016
|	Cr 53		ug/L		14614	-0.016
[	Ni 60	2.802	ug/L	0.968	387	0.003
[>	Ge 74		ug/L		57351	57351.147
|	As 75	0.857	ug/L	63.421	255	0.003
|	Se 77		ug/L		939	0.005
|	Se 82	-0.086	ug/L	997.807	-3	-0.000
[	Kr 83		ug/L		38	0.000
[	Ag 107	0.100	ug/L	34.740	89	0.002
|	Cd 111	0.546	ug/L	16.865	119	0.003
|	Cd 114		ug/L		1126	0.031
[>	In 115		ug/L		36323	36323.412
[	Ba 135		ug/L		159	0.002
|	Ba 137	0.671	ug/L	7.341	263	0.003
[>	Lu 175		ug/L		80161	80160.757
|	Tl 205	0.056	ug/L	9.332	428	0.003
|	Pb 208	0.210	ug/L	2.847	1147	0.012
[U 238	-0.007	ug/L	3.462	26	-0.001

Sample ID: QC Std 4

Report Date/Time: Friday, March 05, 2010 23:19:02

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45			86.6		
|	Cr	52	70.587				
|	Cr	53					
[	Ni	60	84.664				
[>	Ge	74			94.0		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[	Ag	107					
|	Cd	111	123.078				
|	Cd	114					
[>	In	115			87.7		
[	Ba	135					
|	Ba	137	84.055				
[>	Lu	175			94.8		
|	Tl	205					
|	Pb	208	111.252				
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, March 05, 2010 23:22:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\QC Std 5.6443

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	16.006 ug/L	4.909	411	0.004
>	Sc	45	ug/L		115845	115845.354
|	Cr	52	23.021 ug/L	0.784	18852	0.157
|	Cr	53	ug/L		16100	-0.004
|	Ni	60	23.494 ug/L	1.353	3218	0.028
>	Ge	74	ug/L		56585	56585.420
|	As	75	21.546 ug/L	4.545	3823	0.066
|	Se	77	ug/L		1146	0.009
|	Se	82	23.077 ug/L	5.250	307	0.005
|	Kr	83	ug/L		33	0.000
[	Ag	107	19.623 ug/L	0.943	15902	0.435
|	Cd	111	20.249 ug/L	1.984	4207	0.115
|	Cd	114	ug/L		10892	0.298
>	In	115	ug/L		36549	36548.807
[	Ba	135	ug/L		4477	0.056
|	Ba	137	20.557 ug/L	2.964	7827	0.097
>	Lu	175	ug/L		80317	80317.326
|	Tl	205	19.310 ug/L	0.834	74881	0.930
|	Pb	208	19.891 ug/L	1.691	94464	1.174
	U	238	22.188 ug/L	0.109	128448	1.598

Sample ID: QC Std 5

Report Date/Time: Friday, March 05, 2010 23:23:28

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	80.030				
|>	Sc	45			87.2		
|	Cr	52	98.801				
|	Cr	53					
[	Ni	60	100.788				
|>	Ge	74			92.7		
|	As	75	107.732				
|	Se	77					
|	Se	82	115.385				
[	Kr	83					
|	Ag	107	98.117				
|	Cd	111	99.045				
|	Cd	114					
|>	In	115			88.3		
|	Ba	135					
|	Ba	137	98.843				
|>	Lu	175			95.0		
|	Tl	205	96.549				
|	Pb	208	98.525				
[	U	238	110.941				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, March 05, 2010 23:26:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\QC Std 6.6444

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	50.140 ug/L	4.975	1484	0.011
>	Sc	45	ug/L		133788	133787.937
|	Cr	52	51.706 ug/L	0.371	48019	0.354
|	Cr	53	ug/L		23280	0.031
[	Ni	60	51.840 ug/L	3.460	8192	0.061
>	Ge	74	ug/L		61791	61791.302
|	As	75	50.547 ug/L	0.923	9642	0.154
|	Se	77	ug/L		1373	0.011
|	Se	82	52.922 ug/L	2.436	771	0.013
[	Kr	83	ug/L		21	-0.000
[	Ag	107	51.659 ug/L	1.470	47667	1.145
|	Cd	111	51.714 ug/L	1.836	12227	0.294
|	Cd	114	ug/L		29057	0.698
>	In	115	ug/L		41629	41629.316
[	Ba	135	ug/L		12237	0.141
|	Ba	137	51.939 ug/L	1.799	21389	0.246
>	Lu	175	ug/L		86941	86941.335
|	Tl	205	51.144 ug/L	0.965	214337	2.463
|	Pb	208	52.106 ug/L	1.224	267608	3.076
[U	238	55.168 ug/L	0.799	345596	3.974

Sample ID: QC Std 6

Report Date/Time: Friday, March 05, 2010 23:27:54

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	100.280				
|>	Sc	45		100.7			
|	Cr	52	103.412				
|	Cr	53					
|	Ni	60	103.681				
|>	Ge	74		101.2			
|	As	75	101.094				
|	Se	77					
|	Se	82	105.843				
|	Kr	83					
|	Ag	107	103.319				
|	Cd	111	103.427				
|	Cd	114					
|>	In	115		100.6			
|	Ba	135					
|	Ba	137	103.878				
|>	Lu	175		102.8			
|	Tl	205	102.289				
|	Pb	208	104.213				
|	U	238	110.336				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	U	238	238CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, March 05, 2010 23:30:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\QC Std 7.6445

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	-0.012	ug/L	166.977	0	-0.000
>	Sc 45		ug/L		134473	134473.038
|	Cr 52	-0.046	ug/L	101.968	671	-0.000
|	Cr 53		ug/L		18315	-0.006
|	Ni 60	0.031	ug/L	50.843	12	0.000
>	Ge 74		ug/L		61685	61684.504
|	As 75	0.936	ug/L	41.569	288	0.003
|	Se 77		ug/L		696	0.000
|	Se 82	1.240	ug/L	24.083	16	0.000
|	Kr 83		ug/L		13	-0.000
[	Ag 107	0.001	ug/L	181.934	11	0.000
|	Cd 111	0.001	ug/L	1951.951	7	0.000
|	Cd 114		ug/L		11	0.000
>	In 115		ug/L		41555	41555.217
[	Ba 135		ug/L		7	0.000
|	Ba 137	0.002	ug/L	203.134	10	0.000
>	Lu 175		ug/L		86334	86333.992
|	Tl 205	0.195	ug/L	7.279	1038	0.009
|	Pb 208	0.000	ug/L	541.204	164	0.000
	U 238	0.004	ug/L	35.035	97	0.000

Sample ID: QC Std 7

Report Date/Time: Friday, March 05, 2010 23:32:23

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
|>	Sc	45			101.2		
|	Cr	52					
|	Cr	53					
|	Ni	60					
[>	Ge	74			101.1		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115			100.4		
[	Ba	135					
|	Ba	137					
|>	Lu	175			102.1		
|	Tl	205					
|	Pb	208					
|	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Friday, March 05, 2010 23:35:24

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\QC Std 10.6446

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	829.011	ug/L	4.944	22021	0.183
[>	Sc 45		ug/L		120078	120078.496
|	Cr 52	972.433	ug/L	0.855	799209	6.651
|	Cr 53		ug/L		110599	0.779
[	Ni 60	990.795	ug/L	2.648	140419	1.170
[>	Ge 74		ug/L		59385	59384.773
|	As 75	934.722	ug/L	0.885	169467	2.852
|	Se 77		ug/L		6979	0.107
|	Se 82	517.955	ug/L	1.133	7269	0.122
[	Kr 83		ug/L		25	0.000
[	Ag 107	242.197	ug/L	1.603	209132	5.367
|	Cd 111	993.032	ug/L	1.997	219568	5.637
|	Cd 114		ug/L		513249	13.178
[>	In 115		ug/L		38956	38956.499
[	Ba 135		ug/L		228028	2.611
|	Ba 137	968.378	ug/L	0.979	400413	4.585
[>	Lu 175		ug/L		87320	87320.260
|	Tl 205	434.085	ug/L	1.361	1825314	20.901
|	Pb 208	4188.842	ug/L	0.543	21595838	247.316
[U 238	4507.051	ug/L	1.541	28351564	324.683

Sample ID: QC Std 10

Report Date/Time: Friday, March 05, 2010 23:36:50

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	82.901				
|>	Sc	45		90.3			
|	Cr	52	97.243				
|	Cr	53					
|	Ni	60	99.080				
|>	Ge	74		97.3			
|	As	75	93.472				
|	Se	77					
|	Se	82	103.591				
|	Kr	83					
|	Ag	107	96.879				
|	Cd	111	99.303				
|	Cd	114					
|>	In	115		94.1			
|	Ba	135					
|	Ba	137	96.838				
|>	Lu	175		103.3			
|	Tl	205	86.817				
|	Pb	208	83.777				
|	U	238	90.141				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 10	Be	9LRS is out of limits (+/- 10%)
QC Std 10	Tl	205LRS is out of limits (+/- 10%)
QC Std 10	Pb	208LRS is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Friday, March 05, 2010 23:39:50

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\QC Std 11.6447

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	49.313	ug/L	2.484	1455	0.011
[> Sc	45		ug/L		133401	133401.000
[Cr	52	51.670	ug/L	2.368	47841	0.353
[Cr	53		ug/L		23078	0.030
[Ni	60	52.267	ug/L	3.956	8236	0.062
[> Ge	74		ug/L		62522	62522.494
[As	75	50.322	ug/L	2.526	9715	0.154
[Se	77		ug/L		1339	0.011
[Se	82	55.344	ug/L	5.563	816	0.013
[Kr	83		ug/L		18	-0.000
[Ag	107	51.096	ug/L	0.846	47857	1.132
[Cd	111	51.232	ug/L	2.555	12294	0.291
[Cd	114		ug/L		29636	0.701
[> In	115		ug/L		42256	42256.325
[Ba	135		ug/L		12101	0.137
[Ba	137	51.239	ug/L	0.728	21492	0.243
[> Lu	175		ug/L		88546	88545.813
[Tl	205	50.624	ug/L	0.806	216080	2.438
[Pb	208	51.773	ug/L	1.051	270846	3.057
[U	238	54.893	ug/L	0.171	350227	3.954

Sample ID: QC Std 11

Report Date/Time: Friday, March 05, 2010 23:41:15

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	98.626				
>	Sc	45			100.4		
|	Cr	52	103.341				
|	Cr	53					
|	Ni	60	104.535				
>	Ge	74			102.4		
|	As	75	100.643				
|	Se	77					
|	Se	82	110.687				
|	Kr	83					
|	Ag	107	102.193				
|	Cd	111	102.464				
|	Cd	114					
>	In	115			102.1		
|	Ba	135					
|	Ba	137	102.478				
>	Lu	175			104.7		
|	Tl	205	101.248				
|	Pb	208	103.547				
|	U	238	109.787				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 11	Se	82CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Friday, March 05, 2010 23:44:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\QC Std 12.6448

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.056	ug/L	68.572	2	0.000
[>	Sc 45		ug/L		132833	132832.523
[	Cr 52	0.040	ug/L	106.652	740	0.000
[	Cr 53		ug/L		17990	-0.007
[	Ni 60	0.034	ug/L	52.277	12	0.000
[>	Ge 74		ug/L		60772	60771.609
[	As 75	1.218	ug/L	14.752	336	0.004
[	Se 77		ug/L		668	0.000
[	Se 82	0.861	ug/L	37.040	10	0.000
[	Kr 83		ug/L		18	-0.000
[	Ag 107	0.010	ug/L	31.896	18	0.000
[	Cd 111	-0.032	ug/L	42.673	-1	-0.000
[	Cd 114		ug/L		13	0.000
[>	In 115		ug/L		40800	40799.756
[	Ba 135		ug/L		7	0.000
[	Ba 137	0.005	ug/L	74.923	11	0.000
[>	Lu 175		ug/L		84557	84557.022
[	Tl 205	0.440	ug/L	10.045	2014	0.021
[	Pb 208	0.024	ug/L	13.305	280	0.001
[U 238	0.045	ug/L	5.395	345	0.003

Sample ID: QC Std 12

Report Date/Time: Friday, March 05, 2010 23:45:43

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
>	Sc	45			99.9		
|	Cr	52					
|	Cr	53					
[	Ni	60					
>	Ge	74			99.6		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115			98.6		
[	Ba	135					
|	Ba	137					
>	Lu	175			100.0		
|	Tl	205					
|	Pb	208					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202060995

Sample Date/Time: Friday, March 05, 2010 23:48:46

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 960900|2|prb

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\1202060995.6449

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.079	ug/L	76.537	3	0.000
> Sc	45		ug/L		134234	134233.855
Cr	52	0.172	ug/L	30.348	869	0.001
Cr	53		ug/L		15174	-0.030
Ni	60	0.069	ug/L	43.956	18	0.000
> Ge	74		ug/L		60953	60953.378
As	75	0.954	ug/L	45.065	288	0.003
Se	77		ug/L		513	-0.002
Se	82	1.206	ug/L	31.121	15	0.000
Kr	83		ug/L		13	-0.000
Ag	107	0.010	ug/L	52.984	18	0.000
Cd	111	-0.014	ug/L	175.605	3	-0.000
Cd	114		ug/L		12	0.000
> In	115		ug/L		41969	41969.091
Ba	135		ug/L		13	0.000
Ba	137	0.041	ug/L	27.732	27	0.000
> Lu	175		ug/L		88352	88351.594
Tl	205	0.209	ug/L	5.682	1121	0.010
Pb	208	0.035	ug/L	14.235	348	0.002
U	238	0.030	ug/L	16.327	265	0.002

Sample ID: 1202060995

Report Date/Time: Friday, March 05, 2010 23:50:14

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45		101.0		
|	Cr	52				
|	Cr	53				
[	Ni	60				
|>	Ge	74		99.9		
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
|	Ag	107				
|	Cd	111				
|	Cd	114				
|>	In	115		101.4		
|	Ba	135				
|	Ba	137				
|>	Lu	175		104.5		
|	Tl	205				
|	Pb	208				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202061000

Sample Date/Time: Friday, March 05, 2010 23:53:17

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 960900|40|prb

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\1202061000.6450

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	20.074	ug/L	4.896	602	0.004
>	Sc 45		ug/L		135469	135469.194
|	Cr 52	63.617	ug/L	2.080	59641	0.435
|	Cr 53		ug/L		23920	0.034
|	Ni 60	37.372	ug/L	2.534	5981	0.044
>	Ge 74		ug/L		62566	62565.672
|	As 75	28.310	ug/L	3.001	5518	0.086
|	Se 77		ug/L		1623	0.015
|	Se 82	81.891	ug/L	2.169	1209	0.019
|	Kr 83		ug/L		16	-0.000
[	Ag 107	4.850	ug/L	0.172	4561	0.107
|	Cd 111	16.168	ug/L	0.434	3894	0.092
|	Cd 114		ug/L		9400	0.222
>	In 115		ug/L		42349	42349.018
[	Ba 135		ug/L		12323	0.141
|	Ba 137	52.954	ug/L	1.628	21938	0.251
>	Lu 175		ug/L		87455	87455.101
|	Tl 205	32.842	ug/L	1.352	138520	1.581
|	Pb 208	86.190	ug/L	1.228	445197	5.089
	U 238	0.484	ug/L	2.745	3125	0.035

Sample ID: 1202061000

Report Date/Time: Friday, March 05, 2010 23:54:46

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45			101.9		
|	Cr	52					
|	Cr	53					
|	Ni	60					
[>	Ge	74			102.5		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[	Ag	107					
|	Cd	111					
|	Cd	114					
[>	In	115			102.3		
[	Ba	135					
|	Ba	137					
[>	Lu	175			103.4		
|	Tl	205					
|	Pb	208					
|	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 246322004

Sample Date/Time: Friday, March 05, 2010 23:57:47

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 960900|2|prb

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\246322004.6451

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.917	ug/L	18.547	28	0.000
>	Sc 45		ug/L		134636	134636.189
|	Cr 52	25.525	ug/L	0.823	24219	0.175
|	Cr 53		ug/L		16432	-0.021
|	Ni 60	19.870	ug/L	3.536	3165	0.023
>	Ge 74		ug/L		62040	62040.049
|	As 75	7.513	ug/L	7.645	1536	0.023
|	Se 77		ug/L		529	-0.002
|	Se 82	1.318	ug/L	16.323	17	0.000
|	Kr 83		ug/L		27	0.000
[	Ag 107	0.109	ug/L	7.993	109	0.002
|	Cd 111	0.285	ug/L	42.461	73	0.002
|	Cd 114		ug/L		65	0.001
>	In 115		ug/L		41289	41289.044
[	Ba 135		ug/L		76521	0.867
|	Ba 137	317.147	ug/L	0.162	132578	1.502
>	Lu 175		ug/L		88276	88276.462
|	Tl 205	0.435	ug/L	3.120	2085	0.021
|	Pb 208	14.741	ug/L	1.547	76998	0.870
	U 238	5.212	ug/L	1.104	33218	0.375

Sample ID: 246322004

Report Date/Time: Friday, March 05, 2010 23:59:15

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45			101.3		
|	Cr	52					
|	Cr	53					
[	Ni	60					
[>	Ge	74			101.7		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[	Ag	107					
|	Cd	111					
|	Cd	114					
[>	In	115			99.7		
[	Ba	135					
|	Ba	137					
[>	Lu	175			104.4		
|	Tl	205					
|	Pb	208					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202060996

Sample Date/Time: Saturday, March 06, 2010 00:02:16

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 960900|2|prb

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\1202060996.6452

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.966	ug/L	18.117	30	0.000
> Sc	45		ug/L		135594	135593.853
Cr	52	30.044	ug/L	0.485	28579	0.205
Cr	53		ug/L		16724	-0.019
Ni	60	26.291	ug/L	2.392	4215	0.031
> Ge	74		ug/L		62231	62230.560
As	75	5.670	ug/L	4.451	1190	0.017
Se	77		ug/L		520	-0.003
Se	82	1.604	ug/L	53.714	22	0.000
Kr	83		ug/L		18	-0.000
Ag	107	0.112	ug/L	6.072	113	0.002
Cd	111	0.251	ug/L	29.431	67	0.001
Cd	114		ug/L		68	0.001
> In	115		ug/L		42029	42029.257
Ba	135		ug/L		154663	1.714
Ba	137	631.574	ug/L	0.594	269817	2.991
> Lu	175		ug/L		90223	90222.610
Tl	205	0.253	ug/L	6.005	1337	0.012
Pb	208	14.240	ug/L	1.538	76018	0.841
U	238	5.634	ug/L	3.256	36684	0.406

Sample ID: 1202060996

Report Date/Time: Saturday, March 06, 2010 00:03:44

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9				
|>	Sc	45		102.0		
|	Cr	52				
|	Cr	53				
|	Ni	60				
|>	Ge	74		102.0		
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
|	Ag	107				
|	Cd	111				
|	Cd	114				
|>	In	115		101.5		
|	Ba	135				
|	Ba	137				
|>	Lu	175		106.7		
|	Tl	205				
|	Pb	208				
|	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202060998

Sample Date/Time: Saturday, March 06, 2010 00:06:46

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 960900|2|prb

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\1202060998.6453

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	22.562	ug/L	7.891	672	0.005
[>	Sc 45		ug/L		134550	134549.782
|	Cr 52	63.117	ug/L	1.806	58787	0.432
|	Cr 53		ug/L		19692	0.004
[	Ni 60	61.435	ug/L	2.016	9763	0.073
[>	Ge 74		ug/L		62398	62397.634
|	As 75	45.797	ug/L	4.121	8829	0.140
|	Se 77		ug/L		611	-0.001
|	Se 82	8.831	ug/L	12.142	128	0.002
[	Kr 83		ug/L		29	0.000
[	Ag 107	24.055	ug/L	1.576	22247	0.533
|	Cd 111	5.334	ug/L	2.894	1270	0.030
|	Cd 114		ug/L		2748	0.066
[>	In 115		ug/L		41715	41715.235
[	Ba 135		ug/L		104735	1.139
|	Ba 137	419.629	ug/L	3.316	182762	1.987
[>	Lu 175		ug/L		92026	92025.838
|	Tl 205	45.288	ug/L	0.570	200912	2.181
|	Pb 208	118.887	ug/L	1.925	645947	7.019
[U 238	36.275	ug/L	0.721	240547	2.613

Sample ID: 1202060998

Report Date/Time: Saturday, March 06, 2010 00:08:14

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45			101.2		
|	Cr	52					
|	Cr	53					
[	Ni	60					
[>	Ge	74			102.2		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[	Ag	107					
|	Cd	111					
|	Cd	114					
[>	In	115			100.8		
[	Ba	135					
|	Ba	137					
[>	Lu	175			108.8		
|	Tl	205					
|	Pb	208					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202060999

Sample Date/Time: Saturday, March 06, 2010 00:11:16

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 960900|2|prb

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\1202060999.6454

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	23.593 ug/L	6.697	699	0.005
>	Sc	45	ug/L		133758	133757.736
|	Cr	52	53.911 ug/L	2.072	50017	0.369
|	Cr	53	ug/L		18824	-0.002
[	Ni	60	44.509 ug/L	1.753	7033	0.053
>	Ge	74	ug/L		61686	61685.852
|	As	75	43.985 ug/L	3.145	8390	0.134
|	Se	77	ug/L		612	-0.001
|	Se	82	9.970 ug/L	3.277	143	0.002
[	Kr	83	ug/L		23	0.000
|	Ag	107	24.818 ug/L	1.843	22857	0.550
|	Cd	111	5.348 ug/L	5.314	1268	0.030
|	Cd	114	ug/L		2906	0.070
>	In	115	ug/L		41551	41550.601
[	Ba	135	ug/L		77742	0.866
|	Ba	137	321.841 ug/L	1.290	136755	1.524
>	Lu	175	ug/L		89731	89731.170
|	Tl	205	48.067 ug/L	0.267	207907	2.314
|	Pb	208	115.880 ug/L	0.435	614074	6.842
[U	238	32.963 ug/L	1.259	213151	2.375

Sample ID: 1202060999

Report Date/Time: Saturday, March 06, 2010 00:12:44

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
|>	Sc	45			100.6		
|	Cr	52					
|	Cr	53					
[	Ni	60					
[>	Ge	74			101.1		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[	Ag	107					
|	Cd	111					
|	Cd	114					
[>	In	115			100.4		
[	Ba	135					
|	Ba	137					
|>	Lu	175			106.1		
|	Tl	205					
|	Pb	208					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202060997

Sample Date/Time: Saturday, March 06, 2010 00:15:47

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 960900|10|prb

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\1202060997.6455

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.214	ug/L	32.022	7	0.000
[>	Sc 45		ug/L		133733	133732.616
|	Cr 52	4.944	ug/L	1.411	5230	0.034
|	Cr 53		ug/L		16426	-0.020
|	Ni 60	3.987	ug/L	4.671	636	0.005
[>	Ge 74		ug/L		61736	61736.061
|	As 75	2.467	ug/L	19.858	577	0.008
|	Se 77		ug/L		595	-0.001
|	Se 82	0.760	ug/L	18.158	9	0.000
|	Kr 83		ug/L		13	-0.000
[	Ag 107	0.025	ug/L	29.227	33	0.001
|	Cd 111	0.032	ug/L	78.576	14	0.000
|	Cd 114		ug/L		16	0.000
[>	In 115		ug/L		41528	41527.568
[	Ba 135		ug/L		14461	0.165
|	Ba 137	62.483	ug/L	0.266	25984	0.296
[>	Lu 175		ug/L		87790	87790.140
|	Tl 205	0.127	ug/L	8.601	769	0.006
|	Pb 208	2.848	ug/L	1.398	14926	0.168
	U 238	0.994	ug/L	1.357	6363	0.072

Sample ID: 1202060997

Report Date/Time: Saturday, March 06, 2010 00:17:16

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45			100.6		
|	Cr	52					
|	Cr	53					
|	Ni	60					
[>	Ge	74			101.2		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[	Ag	107					
|	Cd	111					
|	Cd	114					
[>	In	115			100.3		
[	Ba	135					
|	Ba	137					
[>	Lu	175			103.8		
|	Tl	205					
|	Pb	208					
|	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, March 06, 2010 00:20:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\QC Std 6.6456

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	50.387	ug/L	7.723	1496	0.011
|>	Sc 45		ug/L		134205	134205.179
|	Cr 52	52.238	ug/L	0.564	48656	0.357
|	Cr 53		ug/L		22907	0.028
|	Ni 60	53.711	ug/L	1.900	8515	0.063
[>	Ge 74		ug/L		63598	63597.894
|	As 75	50.126	ug/L	3.081	9842	0.153
|	Se 77		ug/L		1311	0.010
|	Se 82	52.288	ug/L	4.993	784	0.012
|	Kr 83		ug/L		14	-0.000
[	Ag 107	52.538	ug/L	1.026	48713	1.164
|	Cd 111	52.744	ug/L	0.940	12531	0.299
|	Cd 114		ug/L		30002	0.717
[>	In 115		ug/L		41829	41828.732
[	Ba 135		ug/L		12116	0.138
|	Ba 137	52.280	ug/L	1.039	21781	0.248
|>	Lu 175		ug/L		87946	87946.139
|	Tl 205	51.283	ug/L	1.078	217377	2.469
|	Pb 208	51.709	ug/L	1.713	268652	3.053
	U 238	54.817	ug/L	0.463	347359	3.949

Sample ID: QC Std 6

Report Date/Time: Saturday, March 06, 2010 00:21:42

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9	100.774				
|>	Sc	45		101.0			
|	Cr	52	104.476				
|	Cr	53					
|	Ni	60	107.421				
|>	Ge	74		104.2			
|	As	75	100.252				
|	Se	77					
|	Se	82	104.577				
|	Kr	83					
|	Ag	107	105.075				
|	Cd	111	105.489				
|	Cd	114					
|>	In	115		101.0			
|	Ba	135					
|	Ba	137	104.559				
|>	Lu	175		104.0			
|	Tl	205	102.567				
|	Pb	208	103.418				
|	U	238	109.634				

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, March 06, 2010 00:24:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: c:\elandata\Dataset\default\QC Std 7.6457

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Be 9	0.046	ug/L	197.136	2	0.000
|>	Sc 45		ug/L		131633	131632.658
|	Cr 52	0.003	ug/L	608.794	700	0.000
|	Cr 53		ug/L		17635	-0.009
|	Ni 60	0.015	ug/L	111.412	9	0.000
|>	Ge 74		ug/L		61844	61843.539
|	As 75	1.282	ug/L	41.009	354	0.004
|	Se 77		ug/L		656	-0.000
|	Se 82	1.008	ug/L	8.999	13	0.000
|	Kr 83		ug/L		15	-0.000
|	Ag 107	0.007	ug/L	12.520	15	0.000
|	Cd 111	-0.006	ug/L	493.899	5	-0.000
|	Cd 114		ug/L		6	-0.000
|>	In 115		ug/L		41450	41450.185
|	Ba 135		ug/L		7	0.000
|	Ba 137	0.009	ug/L	140.407	13	0.000
|>	Lu 175		ug/L		85461	85461.399
|	Tl 205	0.154	ug/L	9.873	861	0.007
|	Pb 208	0.014	ug/L	12.553	234	0.001
|	U 238	0.016	ug/L	15.098	173	0.001

Sample ID: QC Std 7

Report Date/Time: Saturday, March 06, 2010 00:26:11

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be	9					
[>	Sc	45			99.0		
[	Cr	52					
[	Cr	53					
[	Ni	60					
[>	Ge	74			101.3		
[	As	75					
[	Se	77					
[	Se	82					
[	Kr	83					
[	Ag	107					
[	Cd	111					
[	Cd	114					
[>	In	115			100.1		
[	Ba	135					
[	Ba	137					
[>	Lu	175			101.1		
[	Tl	205					
[	Pb	208					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Saturday, March 06, 2010 08:43:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\Blank.6566

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ge	74	ug/L		57764	
|	As	75	ug/L		395	
|	Se	77	ug/L		630	
|	Se	82	ug/L		8	
|	Kr	83	ug/L		12	
[>	Lu	175	ug/L		81814	
|	U	238	ug/L		191	

Sample ID: Blank

Report Date/Time: Saturday, March 06, 2010 08:44:06

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[>	Lu	175				
	U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Saturday, March 06, 2010 08:45:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\Standard 1.6567

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ge 74		ug/L		58784	58783.643
|	As 75	10.000	ug/L	8.933	2076	0.028
|	Se 77		ug/L		730	0.002
|	Se 82	10.000	ug/L	16.055	141	0.002
|	Kr 83		ug/L		15	0.000
[>	Lu 175		ug/L		83634	83634.307
|	U 238	10.000	ug/L	1.693	61570	0.734

Sample ID: Standard 1

Report Date/Time: Saturday, March 06, 2010 08:46:04

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175				
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Saturday, March 06, 2010 08:47:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\Standard 2.6568

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Ge	74		ug/L		59108	59107.984
| As	75	100.091	ug/L	0.973	18936	0.313
| Se	77		ug/L		1915	0.022
| Se	82	100.113	ug/L	4.027	1523	0.026
[Kr	83		ug/L		16	0.000
[> Lu	175		ug/L		84106	84106.377
[U	238	99.978	ug/L	1.998	604022	7.180

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	Lu	175				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Saturday, March 06, 2010 08:49:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\QC Std 1.6569

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ge 74		ug/L		60506	60505.819
|	As 75	50.925	ug/L	1.150	10063	0.159
|	Se 77		ug/L		1324	0.011
|	Se 82	53.484	ug/L	6.922	837	0.014
|	Kr 83		ug/L		17	0.000
[>	Lu 175		ug/L		85191	85191.458
|	U 238	55.120	ug/L	1.826	337423	3.959

Sample ID: QC Std 1

Report Date/Time: Saturday, March 06, 2010 08:50:00

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup.	Rel. % Diff
[>	Ge	74										
|	As	75		101.850								
|	Se	77										
|	Se	82		106.967								
[	Kr	83										
[>	Lu	175										
[	U	238		110.240								

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 1	U	238	238ICV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Saturday, March 06, 2010 08:51:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\QC Std 2.6570

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ge 74		ug/L		59333	59332.620
|	As 75	-0.221	ug/L	119.907	364	-0.001
|	Se 77		ug/L		661	0.000
|	Se 82	1.068	ug/L	35.333	24	0.000
[	Kr 83		ug/L		14	0.000
[>	Lu 175		ug/L		83627	83626.600
[	U 238	0.013	ug/L	41.574	277	0.001

Sample ID: QC Std 2

Report Date/Time: Saturday, March 06, 2010 08:52:02

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Ge	74			102.7		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[>	Lu	175			102.2		
	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#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Saturday, March 06, 2010 08:53:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\QC Std 3.6571

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ge 74		ug/L		58966	58966.383
|	As 75	4.773	ug/L	20.086	1285	0.015
|	Se 77		ug/L		728	0.001
|	Se 82	6.370	ug/L	5.173	104	0.002
|	Kr 83		ug/L		11	-0.000
[>	Lu 175		ug/L		82708	82708.259
|	U 238	0.224	ug/L	1.650	1524	0.016

Sample ID: QC Std 3

Report Date/Time: Saturday, March 06, 2010 08:54:01

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[>	Ge	74						102.1				
|	As	75		95.464								
|	Se	77										
|	Se	82		127.407								
|	Kr	83										
[>	Lu	175						101.1				
|	U	238		111.984								

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, March 06, 2010 08:55:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\QC Std 4.6572

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Ge 74		ug/L		52510	52510.205
| As 75	-0.516	ug/L	55.882	274	-0.002
| Se 77		ug/L		854	0.005
| Se 82	0.089	ug/L	184.967	8	0.000
[Kr 83		ug/L		33	0.000
[> Lu 175		ug/L		75946	75946.485
[U 238	-0.026	ug/L	4.658	34	-0.002

Sample ID: QC Std 4

Report Date/Time: Saturday, March 06, 2010 08:56:00

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Ge	74			90.9		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[>	Lu	175			92.8		
|	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Saturday, March 06, 2010 08:57:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\QC Std 5.6573

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ge 74		ug/L		52676	52676.142
|	As 75	20.546	ug/L	2.627	3750	0.064
|	Se 77		ug/L		1075	0.010
|	Se 82	20.719	ug/L	4.255	286	0.005
|	Kr 83		ug/L		30	0.000
[>	Lu 175		ug/L		77469	77469.270
	U 238	22.053	ug/L	1.485	122863	1.584

Sample ID: QC Std 5

Report Date/Time: Saturday, March 06, 2010 08:58:00

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Ge	74			91.2		
|	As	75	102.729				
|	Se	77					
|	Se	82	103.595				
|	Kr	83					
[>	Lu	175			94.7		
|	U	238	110.265				

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, March 06, 2010 08:59:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\QC Std 6.6574

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ge 74		ug/L		59706	59706.467
|	As 75	49.312	ug/L	0.815	9629	0.154
|	Se 77		ug/L		1275	0.010
|	Se 82	49.579	ug/L	3.301	766	0.013
|	Kr 83		ug/L		14	0.000
[>	Lu 175		ug/L		83172	83171.968
[	U 238	51.313	ug/L	1.922	306614	3.685

Sample ID: QC Std 6

Report Date/Time: Saturday, March 06, 2010 09:00:02

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Ge	74			103.4		
|	As	75	98.623				
|	Se	77					
|	Se	82	99.158				
|	Kr	83					
[>	Lu	175			101.7		
|	U	238	102.625				

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, March 06, 2010 09:01:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\QC Std 7.6575

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ge 74		ug/L		59418	59418.287
|	As 75	-0.213	ug/L	360.778	366	-0.001
|	Se 77		ug/L		629	-0.000
|	Se 82	0.566	ug/L	136.871	16	0.000
|	Kr 83		ug/L		15	0.000
[>	Lu 175		ug/L		82200	82200.011
	U 238	0.011	ug/L	21.232	258	0.001

Sample ID: QC Std 7

Report Date/Time: Saturday, March 06, 2010 09:02:05

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Ge	74			102.9		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[>	Lu	175			100.5		
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202060995

Sample Date/Time: Saturday, March 06, 2010 09:03:38

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 960900|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\1202060995.6576

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ge 74		ug/L		59132	59131.721
|	As 75	-1.028	ug/L	70.442	214	-0.003
|	Se 77		ug/L		466	-0.003
|	Se 82	-0.035	ug/L	484.264	7	-0.000
[	Kr 83		ug/L		14	0.000
[>	Lu 175		ug/L		84882	84881.962
[	U 238	0.002	ug/L	21.881	209	0.000

Sample ID: 1202060995

Report Date/Time: Saturday, March 06, 2010 09:04:10

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Ge	74		102.4			
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175		103.7			
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202061000

Sample Date/Time: Saturday, March 06, 2010 09:05:43

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 960900|40|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\1202061000.6577

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ge 74		ug/L		59207	59207.075
|	As 75	26.916	ug/L	5.205	5392	0.084
|	Se 77		ug/L		1596	0.016
|	Se 82	78.467	ug/L	3.161	1197	0.020
|	Kr 83		ug/L		13	0.000
[>	Lu 175		ug/L		83420	83420.024
|	U 238	0.470	ug/L	0.839	3010	0.034

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Ge 74			102.5		
|	As 75					
|	Se 77					
|	Se 82					
|	Kr 83					
[>	Lu 175			102.0		
|	U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202061000

Report Date/Time: Saturday, March 06, 2010 09:06:16

Page 1

ICPMS#3 - Summary Report

Sample ID: 246322004

Sample Date/Time: Saturday, March 06, 2010 09:07:47

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 960900|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\246322004.6578

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Ge 74		ug/L		57774	57773.519
| As 75	6.514	ug/L	7.064	1575	0.020
| Se 77		ug/L		519	-0.002
| Se 82	1.836	ug/L	60.685	35	0.000
| Kr 83		ug/L		16	0.000
[> Lu 175		ug/L		84934	84933.624
| U 238	5.227	ug/L	1.232	32076	0.375

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Ge 74		100.0			
| As 75					
| Se 77					
| Se 82					
| Kr 83					
[> Lu 175		103.8			
| U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 246322004

Report Date/Time: Saturday, March 06, 2010 09:08:19

Page 1

ICPMS#3 - Summary Report

Sample ID: 1202060996

Sample Date/Time: Saturday, March 06, 2010 09:09:51

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 960900|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\1202060996.6579

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Ge 74		ug/L		58386	58386.343
| As 75	4.256	ug/L	22.234	1179	0.013
| Se 77		ug/L		478	-0.003
| Se 82	0.261	ug/L	301.199	12	0.000
| Kr 83		ug/L		17	0.000
[> Lu 175		ug/L		85476	85476.196
| U 238	5.613	ug/L	1.690	34649	0.403

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Ge 74		101.1			
| As 75					
| Se 77					
| Se 82					
| Kr 83					
[> Lu 175		104.5			
| U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202060996

Report Date/Time: Saturday, March 06, 2010 09:10:22

Page 1

ICPMS#3 - Summary Report

Sample ID: 1202060998

Sample Date/Time: Saturday, March 06, 2010 09:11:54

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 960900|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\1202060998.6580

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Ge 74		ug/L		57791	57790.566
| As 75	45.366	ug/L	1.485	8607	0.142
| Se 77		ug/L		611	-0.000
| Se 82	9.230	ug/L	4.313	144	0.002
| Kr 83		ug/L		24	0.000
[> Lu 175		ug/L		88142	88141.983
| U 238	36.003	ug/L	0.863	228093	2.586

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Ge 74			100.0		
| As 75					
| Se 77					
| Se 82					
| Kr 83					
[> Lu 175			107.7		
| U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202060999

Sample Date/Time: Saturday, March 06, 2010 09:13:59

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 960900|2|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\1202060999.6581

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
> Ge 74		ug/L		57808	57808.325
| As 75	44.113	ug/L	2.645	8380	0.138
| Se 77		ug/L		579	-0.001
| Se 82	9.056	ug/L	12.039	141	0.002
| Kr 83		ug/L		24	0.000
> Lu 175		ug/L		85834	85834.289
| U 238	33.358	ug/L	1.208	205817	2.396

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
> Ge 74		100.1			
| As 75					
| Se 77					
| Se 82					
| Kr 83					
> Lu 175		104.9			
| U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202060999

Report Date/Time: Saturday, March 06, 2010 09:14:31

Page 1

ICPMS#3 - Summary Report

Sample ID: 1202060997

Sample Date/Time: Saturday, March 06, 2010 09:16:04

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 960900|10|prb

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\1202060997.6582

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Ge 74		ug/L		58836	58835.867
| As 75	0.650	ug/L	39.516	523	0.002
| Se 77		ug/L		553	-0.001
| Se 82	0.148	ug/L	213.737	10	0.000
| Kr 83		ug/L		15	0.000
[> Lu 175		ug/L		84057	84056.774
| U 238	0.975	ug/L	0.642	6084	0.070

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Ge 74		101.9			
| As 75					
| Se 77					
| Se 82					
| Kr 83					
[> Lu 175		102.7			
| U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202060997

Report Date/Time: Saturday, March 06, 2010 09:16:36

Page 1

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Saturday, March 06, 2010 09:18:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\QC Std 6.6583

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ge 74		ug/L		59668	59667.971
|	As 75	49.626	ug/L	2.832	9683	0.155
|	Se 77		ug/L		1182	0.009
|	Se 82	47.779	ug/L	1.036	738	0.012
[	Kr 83		ug/L		12	0.000
[>	Lu 175		ug/L		84233	84233.196
[	U 238	52.036	ug/L	0.280	314966	3.737

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Ge 74		103.3			
|	As 75	99.252				
|	Se 77					
|	Se 82	95.558				
[	Kr 83					
[>	Lu 175		103.0			
[	U 238	104.071				

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, March 06, 2010 09:18:38

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ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Saturday, March 06, 2010 09:20:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc2.mth

Dataset File: c:\elandata\Dataset\default\QC Std 7.6584

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Ge 74		ug/L		58678	58677.862
|	As 75	-0.277	ug/L	156.978	351	-0.001
|	Se 77		ug/L		635	-0.000
|	Se 82	0.746	ug/L	9.136	19	0.000
[	Kr 83		ug/L		13	0.000
[>	Lu 175		ug/L		82862	82861.782
[	U 238	0.013	ug/L	24.767	271	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9999
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[>	Ge	74				101.6					
|	As	75									
|	Se	77									
|	Se	82									
[	Kr	83									
[>	Lu	175				101.3					
[	U	238									

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Saturday, March 06, 2010 09:20:41

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ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Wednesday, March 03, 2010 12:04:40

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.636

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	6025.9	6025.871	118.104	2.0
Mg	24.0	55283.2	55283.165	371.214	0.7
Co	58.9	95810.4	95810.420	471.561	0.5
Rh	102.9	189365.5	189365.471	1478.717	0.8
In	114.9	270547.8	270547.787	2382.775	0.9
Pb	208.0	292457.1	292457.148	1806.253	0.6
[> Ba	137.9	263351.1	263351.108	2083.681	0.8
[Ba++	69.0	3503.3	0.013	0.000	0.8
[> Ce	139.9	326855.2	326855.202	1857.344	0.6
[CeO	155.9	8109.5	0.025	0.000	2.0
Bkgd	220.0	14.8	14.800	1.525	10.3

Current Optimization File Data

Current Value	Description
0.87	Nebulizer Gas Flow
6.00	Lens Voltage
1450.00	ICP RF Power
-1750.00	Analog Stage Voltage
1250.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	11	6.3	6153.0
Co	59	11	6.8	101263.0
In	115	11	7.5	285997.8

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	586	2050	0.706
Be	9.0	9.0	2053	2075	0.657
Mg	24.0	24.0	5685	2080	0.640
Mg	25.0	25.0	5925	2080	0.636
Mg	26.0	26.0	6179	2080	0.648
Co	58.9	59.0	14191	2110	0.629
Rh	102.9	102.9	24867	2160	0.640
In	114.9	114.9	27794	2180	0.645
Ce	139.9	139.9	33865	2200	0.640
Pb	206.0	206.0	49948	2295	0.633
Pb	207.0	207.0	50159	2240	0.639
Pb	208.0	208.0	50451	2265	0.710
U	238.1	238.1	57731	2275	0.735

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Wednesday, March 03, 2010 20:09:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\Blank.168

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7		ug/L		32	
Be	9		ug/L		6	
B	11		ug/L		400	
Na	23		ug/L		19348	
Mg	24		ug/L		1000	
Al	27		ug/L		5001	
P	31		ug/L		11396	
K	39		ug/L		553892	
Ca	43		ug/L		263	
> Sc	45		ug/L		2122493	
Ti	47		ug/L		532	
V	51		ug/L		5746	
Cr	52		ug/L		3047	
Cr	53		ug/L		63428	
Mn	55		ug/L		933	
Fe	57		ug/L		3852	
Co	59		ug/L		38	
Ni	60		ug/L		117	
Cu	63		ug/L		167	
Cu	65		ug/L		83	
Zn	66		ug/L		1088	
Zn	67		ug/L		12610	
Zn	68		ug/L		2436	
> Ge	74		ug/L		479074	
As	75		ug/L		-164	
Se	77		ug/L		2124	
Se	82		ug/L		-1	
Kr	83		ug/L		110	
Sr	88		ug/L		124	
Y	89		ug/L		71	
Mo	98		ug/L		56	
Ag	107		ug/L		14	
Cd	111		ug/L		18	
Cd	114		ug/L		30	
> In	115		ug/L		370948	
Sn	120		ug/L		199	
Sb	121		ug/L		85	
Sb	123		ug/L		61	
Ba	135		ug/L		21	
Ba	137		ug/L		32	
Ho	165		ug/L		15	
> Lu	175		ug/L		766660	
Tl	205		ug/L		1677	
Pb	208		ug/L		308	
Bi	209		ug/L		1215	
Th	232		ug/L		289	
U	238		ug/L		39	

Sample ID: Blank

Report Date/Time: Wednesday, March 03, 2010 20:12:14

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	
Be	9Linear Thru Zero	
B	11Linear Thru Zero	
Na	23Simple Linear	
Mg	24Simple Linear	
Al	27Simple Linear	
P	31Simple Linear	
K	39Simple Linear	
Ca	43Simple Linear	
Sc	45Linear Thru Zero	
Ti	47Simple Linear	
V	51Simple Linear	
Cr	52Linear Thru Zero	
Cr	53Linear Thru Zero	
Mn	55Simple Linear	
Fe	57Simple Linear	
Co	59Simple Linear	
Ni	60Simple Linear	
Cu	63Simple Linear	
Cu	65Simple Linear	
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	
Mo	98Simple Linear	
Ag	107Simple Linear	
Cd	111Simple Linear	
Cd	114Simple Linear	
In	115Linear Thru Zero	
Sn	120Simple Linear	
Sb	121Simple Linear	
Sb	123Simple Linear	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	
Ho	165Simple Linear	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	
Pb	208Linear Thru Zero	
Bi	209Simple Linear	
Th	232Simple Linear	
U	238Simple Linear	

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				
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
[	Zn	66				
|	Zn	67				
|	Zn	68				
> |	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[	Sr	88				
|	Y	89				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
> |	In	115				
|	Sn	120				
|	Sb	121				
|	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
> |	Lu	175				
|	Tl	205				
|	Pb	208				
|	Bi	209				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Wednesday, March 03, 2010 20:15:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\Standard 1.169

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	10.000	ug/L	0.885	27586	0.013
Be	9	10.000	ug/L	3.407	6087	0.003
B	11	20.000	ug/L	2.344	14493	0.007
Na	23	1000.000	ug/L	1.619	4863871	2.299
Mg	24	1000.000	ug/L	13.045	3336393	1.586
Al	27	1000.000	ug/L	8.700	4875088	2.310
P	31	1000.000	ug/L	1.860	277498	0.126
K	39	1000.000	ug/L	2.318	5620602	2.406
Ca	43	1000.000	ug/L	2.338	15223	0.007
> Sc	45		ug/L		2108208	2108208.140
Ti	47	10.000	ug/L	4.178	8920	0.004
V	51	10.000	ug/L	17.431	83561	0.037
Cr	52	10.000	ug/L	1.886	66086	0.030
Cr	53		ug/L		118948	0.027
Mn	55	10.000	ug/L	4.533	106972	0.050
Fe	57	1000.000	ug/L	0.495	216084	0.101
Co	59	10.000	ug/L	2.553	79223	0.038
Ni	60	10.000	ug/L	1.436	17207	0.008
Cu	63		ug/L		40733	0.019
Cu	65	10.000	ug/L	3.248	20018	0.009
Zn	66	10.000	ug/L	2.901	14562	0.029
Zn	67		ug/L		23689	0.025
Zn	68		ug/L		12682	0.022
> Ge	74		ug/L		461578	461578.461
As	75	10.000	ug/L	2.901	12876	0.028
Se	77		ug/L		5711	0.008
Se	82	10.000	ug/L	4.249	1530	0.003
Kr	83		ug/L		88	-0.000
Sr	88	10.000	ug/L	2.290	182730	0.504
Y	89		ug/L		74	0.000
Mo	98	10.000	ug/L	1.107	42954	0.118
Ag	107	10.000	ug/L	2.368	80638	0.223
Cd	111	10.000	ug/L	2.871	20835	0.057
Cd	114		ug/L		49502	0.137
> In	115		ug/L		362225	362224.960
Sn	120	10.000	ug/L	2.176	90356	0.249
Sb	121	10.000	ug/L	2.495	74437	0.205
Sb	123		ug/L		57020	0.157
Ba	135		ug/L		21542	0.029
Ba	137	10.000	ug/L	4.655	38539	0.051
Ho	165		ug/L		12	-0.000
> Lu	175		ug/L		753382	753382.486
Tl	205	10.000	ug/L	3.773	314409	0.416
Pb	208	10.000	ug/L	3.033	539555	0.716
Bi	209		ug/L		912	-0.000
Th	232	10.000	ug/L	4.462	652632	0.867
U	238	10.000	ug/L	2.376	703674	0.935

Sample ID: Standard 1

Report Date/Time: Wednesday, March 03, 2010 20:18:17

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
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					
|	Ti	47					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74					
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115					
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175					
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	Th	232					
|	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 1

Report Date/Time: Wednesday, March 03, 2010 20:18:17

Page 3

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Wednesday, March 03, 2010 20:21:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\Standard 2.170

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	100.057	ug/L	1.117	273074	0.139
Be	9	100.046	ug/L	1.290	59538	0.030
B	11	200.109	ug/L	5.389	139554	0.071
Na	23	10008.293	ug/L	6.961	49388501	25.086
Mg	24	10010.176	ug/L	1.669	34784586	17.673
Al	27	10005.641	ug/L	3.962	48220677	24.499
P	31	9994.768	ug/L	2.603	2371158	1.200
K	39	10011.715	ug/L	8.359	54188366	27.286
Ca	43	10002.563	ug/L	3.471	143675	0.073
> Sc	45		ug/L		1968129	1968128.891
Ti	47	100.015	ug/L	0.824	80126	0.040
V	51	100.022	ug/L	3.851	746169	0.377
Cr	52	99.984	ug/L	1.212	582057	0.294
Cr	53		ug/L		179533	0.061
Mn	55	99.991	ug/L	0.930	982608	0.499
Fe	57	9991.430	ug/L	0.869	1827326	0.927
Co	59	99.998	ug/L	0.597	737779	0.375
Ni	60	100.011	ug/L	2.057	161479	0.082
Cu	63		ug/L		380473	0.193
Cu	65	100.006	ug/L	1.333	187463	0.095
Zn	66	100.019	ug/L	2.910	133243	0.299
Zn	67		ug/L		43015	0.071
Zn	68		ug/L		97013	0.214
> Ge	74		ug/L		442999	442999.359
As	75	100.025	ug/L	1.963	128258	0.290
Se	77		ug/L		15549	0.031
Se	82	99.979	ug/L	2.081	14391	0.032
Kr	83		ug/L		127	0.000
Sr	88	99.930	ug/L	0.318	1614799	4.708
Y	89		ug/L		203	0.000
Mo	98	100.020	ug/L	1.683	414506	1.208
Ag	107	99.948	ug/L	1.015	725212	2.115
Cd	111	100.025	ug/L	1.230	202240	0.590
Cd	114		ug/L		473580	1.381
> In	115		ug/L		342973	342973.152
Sn	120	99.975	ug/L	2.043	832228	2.426
Sb	121	99.968	ug/L	2.725	682272	1.989
Sb	123		ug/L		534318	1.558
Ba	135		ug/L		209994	0.295
Ba	137	100.009	ug/L	1.765	367569	0.516
Ho	165		ug/L		19	0.000
> Lu	175		ug/L		712053	712053.477
Tl	205	99.862	ug/L	1.266	2597541	3.646
Pb	208	99.882	ug/L	1.239	4555570	6.398
Bi	209		ug/L		1504	0.001
Th	232	99.854	ug/L	1.584	5376785	7.551
U	238	99.888	ug/L	0.841	5976157	8.393

Sample ID: Standard 2

Report Date/Time: Wednesday, March 03, 2010 20:24:24

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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				
|	B	11				
|	Na	23				
|	Mg	24				
|	Al	27				
|	P	31				
|	K	39				
|	Ca	43				
>	Sc	45				
|	Ti	47				
|	V	51				
|	Cr	52				
|	Cr	53				
|	Mn	55				
|	Fe	57				
|	Co	59				
|	Ni	60				
|	Cu	63				
|	Cu	65				
[	Zn	66				
|	Zn	67				
|	Zn	68				
>	Ge	74				
|	As	75				
|	Se	77				
|	Se	82				
|	Kr	83				
[	Sr	88				
|	Y	89				
|	Mo	98				
|	Ag	107				
|	Cd	111				
|	Cd	114				
>	In	115				
|	Sn	120				
|	Sb	121				
|	Sb	123				
[	Ba	135				
|	Ba	137				
|	Ho	165				
>	Lu	175				
|	Tl	205				
|	Pb	208				
|	Bi	209				
|	Th	232				
|	U	238				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 2

Report Date/Time: Wednesday, March 03, 2010 20:24:24

Page 3

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Wednesday, March 03, 2010 20:27:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 1.171

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.905	ug/L	2.084	142544	0.072
Be	9	51.254	ug/L	0.756	30695	0.015
B	11	105.893	ug/L	1.326	74509	0.037
Na	23	5018.559	ug/L	4.234	24927950	12.579
Mg	24	4607.934	ug/L	1.835	16111549	8.135
Al	27	5119.626	ug/L	4.898	24824719	12.535
P	31	5072.469	ug/L	1.068	1216222	0.609
K	39	4852.942	ug/L	2.938	26709868	13.226
Ca	43	4883.715	ug/L	1.422	70717	0.036
> Sc	45		ug/L		1980255	1980254.680
Ti	47	49.872	ug/L	2.067	40444	0.020
V	51	49.718	ug/L	0.547	375974	0.187
Cr	52	51.972	ug/L	2.015	305811	0.153
Cr	53		ug/L		150131	0.046
Mn	55	52.678	ug/L	1.730	521243	0.263
Fe	57	5334.415	ug/L	1.620	983303	0.495
Co	59	51.939	ug/L	0.819	385588	0.195
Ni	60	51.969	ug/L	2.265	84478	0.043
Cu	63		ug/L		196759	0.099
Cu	65	51.782	ug/L	0.183	97694	0.049
Zn	66	51.826	ug/L	1.202	69087	0.155
Zn	67		ug/L		32661	0.048
Zn	68		ug/L		52024	0.113
> Ge	74		ug/L		440059	440058.713
As	75	50.516	ug/L	2.441	64261	0.146
Se	77		ug/L		10494	0.019
Se	82	51.443	ug/L	1.773	7356	0.017
Kr	83		ug/L		102	0.000
Sr	88	54.524	ug/L	2.894	888430	2.569
Y	89		ug/L		97	0.000
Mo	98	49.441	ug/L	1.760	206649	0.597
Ag	107	51.683	ug/L	2.888	378133	1.093
Cd	111	51.110	ug/L	3.746	104194	0.301
Cd	114		ug/L		246881	0.714
> In	115		ug/L		345926	345926.240
Sn	120	51.981	ug/L	0.873	436559	1.262
Sb	121	52.042	ug/L	1.854	358288	1.036
Sb	123		ug/L		280904	0.812
Ba	135		ug/L		107580	0.152
Ba	137	52.656	ug/L	1.822	192662	0.272
Ho	165		ug/L		50	0.000
> Lu	175		ug/L		708747	708747.061
Tl	205	52.875	ug/L	2.097	1369540	1.930
Pb	208	54.167	ug/L	1.425	2459274	3.470
Bi	209		ug/L		1155	0.000
Th	232	52.497	ug/L	0.481	2813975	3.970
U	238	52.843	ug/L	0.464	3147098	4.440

Sample ID: QC Std 1

Report Date/Time: Wednesday, March 03, 2010 20:30:29

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	103.810				
Be	9	102.508				
B	11	105.893				
Na	23	100.371				
Mg	24	92.159				
Al	27	101.379				
P	31	101.449				
K	39	97.059				
Ca	43	97.674				
> Sc	45		93.3			
Ti	47	99.743				
V	51	99.436				
Cr	52	103.944				
Cr	53					
Mn	55	105.355				
Fe	57	106.688				
Co	59	103.878				
Ni	60	103.938				
Cu	63					
Cu	65	103.565				
Zn	66	103.651				
Zn	67					
Zn	68					
> Ge	74		91.9			
As	75	101.032				
Se	77					
Se	82	102.886				
Kr	83					
Sr	88	109.048				
Y	89					
Mo	98	98.882				
Ag	107	103.366				
Cd	111	102.221				
Cd	114					
> In	115		93.3			
Sn	120	103.962				
Sb	121	104.084				
Sb	123					
Ba	135					
Ba	137	105.313				
Ho	165					
> Lu	175		92.4			
Tl	205	105.749				
Pb	208	108.335				
Bi	209					
Th	232	104.995				
U	238	105.686				

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 1

Report Date/Time: Wednesday, March 03, 2010 20:30:29

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ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Wednesday, March 03, 2010 20:33:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 2.172

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.015	ug/L	14.044	77	0.000
Be	9	0.013	ug/L	68.238	15	0.000
B	11	4.203	ug/L	15.903	3655	0.001
Na	23	1.231	ug/L	62.562	26692	0.003
Mg	24	1.375	ug/L	39.377	6335	0.002
Al	27	0.219	ug/L	121.727	6335	0.001
P	31	-6.674	ug/L	5.279	9983	-0.001
K	39	-3.392	ug/L	184.646	550450	-0.009
Ca	43	-2.364	ug/L	55.649	233	-0.000
> Sc	45		ug/L		2185371	2185370.616
Ti	47	-0.182	ug/L	21.524	386	-0.000
V	51	-0.136	ug/L	439.992	4770	-0.001
Cr	52	-0.045	ug/L	38.286	2849	-0.000
Cr	53		ug/L		66275	0.000
Mn	55	0.002	ug/L	191.163	979	0.000
Fe	57	-1.328	ug/L	24.626	3697	-0.000
Co	59	0.010	ug/L	34.537	120	0.000
Ni	60	-0.004	ug/L	271.990	113	-0.000
Cu	63		ug/L		218	0.000
Cu	65	0.010	ug/L	68.858	106	0.000
Zn	66	-0.034	ug/L	128.576	1036	-0.000
Zn	67		ug/L		12067	-0.001
Zn	68		ug/L		2313	-0.000
> Ge	74		ug/L		477613	477612.835
As	75	0.196	ug/L	51.481	108	0.001
Se	77		ug/L		2469	0.001
Se	82	0.033	ug/L	214.281	4	0.000
Kr	83		ug/L		102	-0.000
Sr	88	0.008	ug/L	35.946	272	0.000
Y	89		ug/L		44	-0.000
Mo	98	0.037	ug/L	9.857	223	0.000
Ag	107	0.012	ug/L	33.952	108	0.000
Cd	111	0.007	ug/L	73.028	34	0.000
Cd	114		ug/L		94	0.000
> In	115		ug/L		371628	371627.664
Sn	120	0.020	ug/L	19.127	381	0.000
Sb	121	0.172	ug/L	7.480	1355	0.003
Sb	123		ug/L		1023	0.003
Ba	135		ug/L		37	0.000
Ba	137	0.009	ug/L	41.021	71	0.000
Ho	165		ug/L		17	0.000
> Lu	175		ug/L		784225	784225.392
Tl	205	0.441	ug/L	17.922	14317	0.016
Pb	208	0.011	ug/L	44.356	848	0.001
Bi	209		ug/L		1106	-0.000
Th	232	0.022	ug/L	2.856	1601	0.002
U	238	0.012	ug/L	35.809	819	0.001

Sample ID: QC Std 2

Report Date/Time: Wednesday, March 03, 2010 20:36:38

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		103.0			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		99.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		100.2			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		102.3			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Wednesday, March 03, 2010 20:36:38

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ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Wednesday, March 03, 2010 20:40:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 3.173

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	11.383	ug/L	1.440	33955	0.016
Be	9	0.543	ug/L	9.863	359	0.000
B	11	18.152	ug/L	1.103	14200	0.006
Na	23	275.553	ug/L	6.661	1504091	0.691
Mg	24	16.826	ug/L	26.107	64820	0.030
Al	27	40.773	ug/L	5.611	219680	0.100
P	31	75.132	ug/L	8.407	30911	0.009
K	39	292.851	ug/L	11.642	2275863	0.798
Ca	43	222.705	ug/L	3.511	3754	0.002
> Sc	45		ug/L		2149350	2149350.067
Ti	47	7.772	ug/L	2.014	7296	0.003
V	51	9.862	ug/L	20.082	85532	0.037
Cr	52	11.120	ug/L	2.781	73428	0.033
Cr	53		ug/L		124716	0.028
Mn	55	6.034	ug/L	1.829	65631	0.030
Fe	57	126.734	ug/L	2.429	29159	0.012
Co	59	1.140	ug/L	2.101	9221	0.004
Ni	60	2.233	ug/L	2.581	4053	0.002
Cu	63		ug/L		5207	0.002
Cu	65	1.179	ug/L	1.903	2497	0.001
Zn	66	11.481	ug/L	1.788	17430	0.034
Zn	67		ug/L		23457	0.023
Zn	68		ug/L		14485	0.025
> Ge	74		ug/L		476950	476949.843
As	75	5.808	ug/L	5.454	7866	0.017
Se	77		ug/L		5335	0.007
Se	82	6.043	ug/L	2.375	936	0.002
Kr	83		ug/L		81	-0.000
Sr	88	12.271	ug/L	0.557	218932	0.578
Y	89		ug/L		57	-0.000
Mo	98	0.546	ug/L	2.712	2556	0.007
Ag	107	1.069	ug/L	3.437	8572	0.023
Cd	111	1.126	ug/L	2.269	2531	0.007
Cd	114		ug/L		5902	0.016
> In	115		ug/L		378485	378484.887
Sn	120	5.588	ug/L	2.474	51521	0.136
Sb	121	3.562	ug/L	3.048	26902	0.071
Sb	123		ug/L		21000	0.055
Ba	135		ug/L		5111	0.006
Ba	137	2.200	ug/L	4.104	8944	0.011
Ho	165		ug/L		14	-0.000
> Lu	175		ug/L		784913	784912.563
Tl	205	1.352	ug/L	0.405	40472	0.049
Pb	208	2.534	ug/L	2.037	127694	0.162
Bi	209		ug/L		725	-0.001
Th	232	1.370	ug/L	0.514	81591	0.104
U	238	0.297	ug/L	2.217	19621	0.025

Sample ID: QC Std 3

Report Date/Time: Wednesday, March 03, 2010 20:42:44

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	113.830				
Be	9	108.583				
B	11	121.017				
Na	23	110.221				
Mg	24	112.174				
Al	27	135.911				
P	31	150.265				
K	39	97.617				
Ca	43	111.352				
> Sc	45		101.3			
Ti	47	77.724				
V	51	98.619				
Cr	52	111.201				
Cr	53					
Mn	55	120.677				
Fe	57	126.734				
Co	59	113.950				
Ni	60	111.666				
Cu	63					
Cu	65	117.926				
Zn	66	114.814				
Zn	67					
Zn	68					
> Ge	74		99.6			
As	75	116.165				
Se	77					
Se	82	120.858				
Kr	83					
Sr	88	122.713				
Y	89					
Mo	98	109.281				
Ag	107	106.917				
Cd	111	112.639				
Cd	114					
> In	115		102.0			
Sn	120	111.766				
Sb	121	118.721				
Sb	123					
Ba	135					
Ba	137	109.984				
Ho	165					
> Lu	175		102.4			
Tl	205	135.240				
Pb	208	126.690				
Bi	209					
Th	232	136.961				
U	238	148.464				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Al	27	CRDL is out of limits
QC Std 3	P	31	CRDL is out of limits
QC Std 3	Ti	205	CRDL is out of limits
QC Std 3	Th	232	CRDL is out of limits
QC Std 3	U	238	CRDL is out of limits

Sample ID: QC Std 3

Report Date/Time: Wednesday, March 03, 2010 20:42:44

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QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Wednesday, March 03, 2010 20:46:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 4.174

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.066	ug/L	6.531	201	0.000
Be	9	0.092	ug/L	6.645	58	0.000
B	11	2.027	ug/L	10.410	1702	0.001
Na	23	91533.755	ug/L	3.149	431720933	229.427
Mg	24	88588.914	ug/L	6.520	294291377	156.401
Al	27	84386.170	ug/L	1.430	388801533	206.620
P	31	84498.860	ug/L	2.249	19091811	10.141
K	39	92177.750	ug/L	1.630	473283493	251.219
Ca	43	89543.357	ug/L	0.560	1228165	0.653
> Sc	45		ug/L		1881812	1881811.980
Ti	47	1397.492	ug/L	1.008	1064276	0.565
V	51	0.098	ug/L	736.457	5784	0.000
Cr	52	1.973	ug/L	4.108	13629	0.006
Cr	53		ug/L		93969	0.020
Mn	55	5.714	ug/L	0.399	54470	0.029
Fe	57	106661.409	ug/L	1.083	18618872	9.892
Co	59	0.494	ug/L	1.305	3517	0.002
Ni	60	4.969	ug/L	0.520	7770	0.004
Cu	63		ug/L		9227	0.005
Cu	65	4.483	ug/L	1.005	8105	0.004
Zn	66	5.530	ug/L	1.943	7502	0.017
Zn	67		ug/L		19166	0.022
Zn	68		ug/L		3608	0.004
> Ge	74		ug/L		399478	399477.964
As	75	0.038	ug/L	788.236	-89	0.000
Se	77		ug/L		7195	0.014
Se	82	-2.198	ug/L	11.613	-286	-0.001
Kr	83		ug/L		496	0.001
Sr	88	3.271	ug/L	1.816	50284	0.154
Y	89		ug/L		638	0.002
Mo	98	1776.398	ug/L	2.133	6986056	21.462
Ag	107	0.132	ug/L	5.741	924	0.003
Cd	111	0.917	ug/L	14.661	1774	0.005
Cd	114		ug/L		17241	0.053
> In	115		ug/L		325575	325574.802
Sn	120	0.291	ug/L	2.406	2477	0.007
Sb	121	0.113	ug/L	14.898	804	0.002
Sb	123		ug/L		612	0.002
Ba	135		ug/L		1523	0.002
Ba	137	0.749	ug/L	3.165	2608	0.004
Ho	165		ug/L		13668	0.020
> Lu	175		ug/L		667188	667187.659
Tl	205	0.104	ug/L	9.348	3996	0.004
Pb	208	0.247	ug/L	1.429	10818	0.016
Bi	209		ug/L		8047	0.010
Th	232	0.063	ug/L	29.047	3420	0.005
U	238	0.020	ug/L	2.162	1170	0.002

Sample ID: QC Std 4

Report Date/Time: Wednesday, March 03, 2010 20:48:50

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23	91.534				
Mg	24	88.589				
Al	27	84.386				
P	31	84.499				
K	39	92.178				
Ca	43	89.543				
> Sc	45		88.7			
Ti	47	69.875				
V	51					
Cr	52	59.793				
Cr	53					
Mn	55	98.525				
Fe	57	106.661				
Co	59	210.165				
Ni	60	150.115				
Cu	63					
Cu	65	134.230				
Zn	66	147.083				
Zn	67					
Zn	68					
> Ge	74		83.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88	110.523				
Y	89					
Mo	98	88.820				
Ag	107					
Cd	111	206.555				
Cd	114					
> In	115		87.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137	93.899				
Ho	165					
> Lu	175		87.0			
Ti	205					
Pb	208	130.636				
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 4	Ti	47	ICSA is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Wednesday, March 03, 2010 20:52:14

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 5.175

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	20.197	ug/L	1.333	50805	0.028
Be	9	18.458	ug/L	0.630	10125	0.006
B	11	18.471	ug/L	2.215	12181	0.007
Na	23	88891.690	ug/L	1.437	403988589	222.805
Mg	24	87850.787	ug/L	2.944	281204107	155.098
Al	27	85867.635	ug/L	6.650	381121943	210.248
P	31	82674.240	ug/L	0.785	18001202	9.922
K	39	94038.926	ug/L	1.947	465212886	256.291
Ca	43	88845.207	ug/L	1.719	1174042	0.647
> Sc	45		ug/L		1813265	1813264.857
Ti	47	1372.593	ug/L	0.343	1007277	0.555
V	51	19.523	ug/L	11.127	138080	0.073
Cr	52	21.729	ug/L	1.306	118578	0.064
Cr	53		ug/L		100051	0.025
Mn	55	26.073	ug/L	0.617	236638	0.130
Fe	57	108353.160	ug/L	1.361	18222869	10.049
Co	59	19.753	ug/L	1.609	134294	0.074
Ni	60	21.723	ug/L	0.784	32395	0.018
Cu	63		ug/L		69818	0.038
Cu	65	22.159	ug/L	2.135	38317	0.021
Zn	66	23.660	ug/L	2.554	28356	0.071
Zn	67		ug/L		21483	0.029
Zn	68		ug/L		18648	0.043
> Ge	74		ug/L		388982	388981.706
As	75	20.691	ug/L	3.386	23193	0.060
Se	77		ug/L		8939	0.019
Se	82	18.703	ug/L	4.471	2363	0.006
Kr	83		ug/L		507	0.001
Sr	88	26.040	ug/L	2.527	394527	1.227
Y	89		ug/L		631	0.002
Mo	98	1766.486	ug/L	2.933	6861189	21.342
Ag	107	18.832	ug/L	2.537	128102	0.398
Cd	111	19.897	ug/L	3.514	37719	0.117
Cd	114		ug/L		103070	0.321
> In	115		ug/L		321622	321621.735
Sn	120	21.143	ug/L	2.539	165151	0.513
Sb	121	20.896	ug/L	2.567	133766	0.416
Sb	123		ug/L		104524	0.325
Ba	135		ug/L		41152	0.061
Ba	137	20.907	ug/L	0.391	72969	0.108
Ho	165		ug/L		13747	0.020
> Lu	175		ug/L		675863	675862.555
Tl	205	22.291	ug/L	0.222	551541	0.814
Pb	208	22.165	ug/L	1.206	959835	1.420
Bi	209		ug/L		8770	0.011
Th	232	23.389	ug/L	0.484	1195686	1.769
U	238	23.945	ug/L	1.282	1359931	2.012

Sample ID: QC Std 5

Report Date/Time: Wednesday, March 03, 2010 20:54:56

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	100.985				
Be	9	92.291				
B	11	92.353				
Na	23	88.892				
Mg	24	87.851				
Al	27	85.868				
P	31	82.674				
K	39	94.039				
Ca	43	88.845				
> Sc	45		85.4			
Ti	47	68.630				
V	51	97.614				
Cr	52	93.259				
Cr	53					
Mn	55	101.058				
Fe	57	108.353				
Co	59	97.618				
Ni	60	93.193				
Cu	63					
Cu	65	94.941				
Zn	66	99.578				
Zn	67					
Zn	68					
> Ge	74		81.2			
As	75	103.453				
Se	77					
Se	82	93.517				
Kr	83					
Sr	88	113.416				
Y	89					
Mo	98	88.324				
Ag	107	94.158				
Cd	111	97.326				
Cd	114					
> In	115		86.7			
Sn	120	105.717				
Sb	121	104.482				
Sb	123					
Ba	135					
Ba	137	100.523				
Ho	165					
> Lu	175		88.2			
Tl	205	111.456				
Pb	208	109.788				
Bi	209					
Th	232	116.945				
U	238	119.725				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	Ti	47	ICSAB is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, March 03, 2010 20:58:21

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 6.176

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	56.041	ug/L	2.230	153880	0.078
Be	9	52.352	ug/L	1.055	31348	0.016
B	11	102.016	ug/L	2.411	71796	0.036
Na	23	4766.820	ug/L	5.765	23681552	11.948
Mg	24	4552.771	ug/L	1.681	15917823	8.038
Al	27	4331.540	ug/L	4.571	21007249	10.606
P	31	4611.164	ug/L	0.530	1106452	0.553
K	39	4567.551	ug/L	5.994	25172610	12.448
Ca	43	4859.788	ug/L	2.871	70356	0.035
> Sc	45		ug/L		1980110	1980110.136
Ti	47	46.522	ug/L	2.995	37757	0.019
V	51	46.608	ug/L	0.747	352779	0.175
Cr	52	49.461	ug/L	0.966	291140	0.146
Cr	53		ug/L		146854	0.044
Mn	55	52.321	ug/L	2.268	517645	0.261
Fe	57	5295.622	ug/L	0.921	976108	0.491
Co	59	51.433	ug/L	1.063	381832	0.193
Ni	60	51.800	ug/L	3.089	84190	0.042
Cu	63		ug/L		194446	0.098
Cu	65	50.296	ug/L	0.549	94888	0.048
Zn	66	51.372	ug/L	1.049	67810	0.153
Zn	67		ug/L		30193	0.043
Zn	68		ug/L		50512	0.111
> Ge	74		ug/L		435688	435688.070
As	75	49.196	ug/L	2.047	61957	0.143
Se	77		ug/L		10584	0.020
Se	82	51.968	ug/L	1.770	7358	0.017
Kr	83		ug/L		85	-0.000
Sr	88	52.048	ug/L	0.803	896973	2.452
Y	89		ug/L		105	0.000
Mo	98	47.333	ug/L	2.358	209191	0.572
Ag	107	50.416	ug/L	2.061	390088	1.067
Cd	111	51.107	ug/L	1.978	110190	0.301
Cd	114		ug/L		258184	0.706
> In	115		ug/L		365772	365771.794
Sn	120	50.685	ug/L	2.622	450046	1.230
Sb	121	50.836	ug/L	2.496	370066	1.012
Sb	123		ug/L		290311	0.794
Ba	135		ug/L		111536	0.140
Ba	137	48.804	ug/L	2.440	200004	0.252
Ho	165		ug/L		53	0.000
> Lu	175		ug/L		793880	793879.574
Tl	205	50.530	ug/L	1.710	1466325	1.845
Pb	208	52.614	ug/L	0.644	2675822	3.370
Bi	209		ug/L		1089	-0.000
Th	232	50.964	ug/L	1.591	3059776	3.854
U	238	52.131	ug/L	1.789	3477280	4.381

Sample ID: QC Std 6

Report Date/Time: Wednesday, March 03, 2010 21:01:04

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	112.083				
Be	9	104.704				
B	11	102.016				
Na	23	95.336				
Mg	24	91.055				
Al	27	85.773				
P	31	92.223				
K	39	91.351				
Ca	43	97.196				
> Sc	45		93.3			
Ti	47	93.044				
V	51	93.217				
Cr	52	98.922				
Cr	53					
Mn	55	104.643				
Fe	57	105.912				
Co	59	102.866				
Ni	60	103.599				
Cu	63					
Cu	65	100.592				
Zn	66	102.743				
Zn	67					
Zn	68					
> Ge	74		90.9			
As	75	98.392				
Se	77					
Se	82	103.936				
Kr	83					
Sr	88	104.097				
Y	89					
Mo	98	94.667				
Ag	107	100.832				
Cd	111	102.215				
Cd	114					
> In	115		98.6			
Sn	120	101.370				
Sb	121	101.672				
Sb	123					
Ba	135					
Ba	137	97.607				
Ho	165					
> Lu	175		103.6			
Tl	205	101.060				
Pb	208	105.227				
Bi	209					
Th	232	101.928				
U	238	104.263				

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	Al	27	27CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, March 03, 2010 21:04:29

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 7.177

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.018	ug/L	16.161	84	0.000
Be	9	0.005	ug/L	96.836	9	0.000
B	11	2.704	ug/L	18.371	2406	0.001
Na	23	2.201	ug/L	85.727	30702	0.006
Mg	24	2.333	ug/L	23.622	9670	0.004
Al	27	2.064	ug/L	52.084	15676	0.005
P	31	-11.559	ug/L	32.491	8378	-0.001
K	39	-8.703	ug/L	33.512	499590	-0.024
Ca	43	-1.034	ug/L	177.378	245	-0.000
> Sc	45		ug/L		2106340	2106340.097
Ti	47	-0.188	ug/L	22.628	367	-0.000
V	51	-0.127	ug/L	524.159	4742	-0.000
Cr	52	-0.041	ug/L	149.553	2774	-0.000
Cr	53		ug/L		66859	0.002
Mn	55	0.004	ug/L	205.202	967	0.000
Fe	57	0.833	ug/L	55.731	3985	0.000
Co	59	0.008	ug/L	21.507	99	0.000
Ni	60	0.009	ug/L	34.419	132	0.000
Cu	63		ug/L		206	0.000
Cu	65	0.016	ug/L	59.479	114	0.000
Zn	66	-0.040	ug/L	29.864	1021	-0.000
Zn	67		ug/L		10937	-0.003
Zn	68		ug/L		2025	-0.001
> Ge	74		ug/L		474341	474341.219
As	75	-0.008	ug/L	680.677	-173	-0.000
Se	77		ug/L		2760	0.001
Se	82	0.099	ug/L	98.312	14	0.000
Kr	83		ug/L		94	-0.000
Sr	88	0.007	ug/L	31.532	265	0.000
Y	89		ug/L		49	-0.000
Mo	98	0.081	ug/L	15.371	442	0.001
Ag	107	0.010	ug/L	24.882	101	0.000
Cd	111	0.008	ug/L	28.932	37	0.000
Cd	114		ug/L		84	0.000
> In	115		ug/L		393331	393331.204
Sn	120	0.020	ug/L	26.706	397	0.000
Sb	121	0.084	ug/L	15.362	749	0.002
Sb	123		ug/L		572	0.001
Ba	135		ug/L		34	0.000
Ba	137	0.006	ug/L	12.299	63	0.000
Ho	165		ug/L		10	-0.000
> Lu	175		ug/L		848640	848640.433
Tl	205	0.510	ug/L	20.734	17695	0.019
Pb	208	0.009	ug/L	34.092	827	0.001
Bi	209		ug/L		945	-0.000
Th	232	0.022	ug/L	4.238	1730	0.002
U	238	0.012	ug/L	16.353	879	0.001

Sample ID: QC Std 7

Report Date/Time: Wednesday, March 03, 2010 21:07:13

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution %	Duplicate Rel. % Difference
Li	7					
Be	9					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		99.2			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		99.0			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		106.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		110.7			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Wednesday, March 03, 2010 21:07:13

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ICPMS#5 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Wednesday, March 03, 2010 21:10:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 10.178

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	940.687	ug/L	1.768	2285115	1.304
Be	9	912.920	ug/L	1.409	483637	0.276
B	11	1.871	ug/L	4.625	1489	0.001
Na	23	44719.103	ug/L	2.775	196463405	112.087
Mg	24	43146.998	ug/L	2.449	133455715	76.175
Al	27	42249.136	ug/L	1.165	181274026	103.447
P	31	20660.282	ug/L	0.809	4354751	2.480
K	39	44269.117	ug/L	3.476	211757373	120.650
Ca	43	46000.992	ug/L	0.368	587618	0.335
> Sc	45		ug/L		1752247	1752246.926
Ti	47	55.328	ug/L	3.141	39653	0.022
V	51	770.855	ug/L	0.804	5089723	2.902
Cr	52	787.089	ug/L	0.354	4062133	2.317
Cr	53		ug/L		629482	0.329
Mn	55	839.378	ug/L	0.350	7337284	4.187
Fe	57	53916.739	ug/L	0.426	8764299	5.000
Co	59	781.635	ug/L	0.869	5133594	2.930
Ni	60	797.736	ug/L	1.834	1145833	0.654
Cu	63		ug/L		2466855	1.408
Cu	65	765.372	ug/L	0.525	1276675	0.729
Zn	66	2200.982	ug/L	1.445	2493673	6.571
Zn	67		ug/L		419217	1.079
Zn	68		ug/L		1640744	4.320
> Ge	74		ug/L		379318	379318.437
As	75	857.245	ug/L	0.432	942120	2.484
Se	77		ug/L		48958	0.125
Se	82	487.353	ug/L	0.204	60079	0.158
Kr	83		ug/L		275	0.000
Sr	88	956.513	ug/L	2.260	14069037	45.063
Y	89		ug/L		479	0.001
Mo	98	882.721	ug/L	1.108	3329727	10.665
Ag	107	210.582	ug/L	2.127	1390940	4.455
Cd	111	833.833	ug/L	1.278	1534514	4.915
Cd	114		ug/L		3697086	11.841
> In	115		ug/L		312217	312217.188
Sn	120	840.137	ug/L	1.751	6366046	20.389
Sb	121	225.349	ug/L	0.823	1400193	4.485
Sb	123		ug/L		1116038	3.574
Ba	135		ug/L		1631869	2.458
Ba	137	871.711	ug/L	1.607	2987974	4.500
Ho	165		ug/L		178	0.000
> Lu	175		ug/L		663968	663967.632
Tl	205	465.651	ug/L	1.831	11289877	17.001
Pb	208	4733.001	ug/L	0.511	201310524	303.186
Bi	209		ug/L		6216	0.008
Th	232	2580.502	ug/L	1.355	129574899	195.150
U	238	5414.630	ug/L	1.504	302088642	454.986

Sample ID: QC Std 10

Report Date/Time: Wednesday, March 03, 2010 21:13:17

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7	94.069				
Be	9	91.292				
B	11					
Na	23	89.438				
Mg	24	86.294				
Al	27	84.498				
P	31	82.641				
K	39	88.538				
Ca	43	92.002				
> Sc	45		82.6			
Ti	47					
V	51	77.085				
Cr	52	78.709				
Cr	53					
Mn	55	83.938				
Fe	57	107.833				
Co	59	78.163				
Ni	60	79.774				
Cu	63					
Cu	65	76.537				
Zn	66	88.039				
Zn	67					
Zn	68					
> Ge	74		79.2			
As	75	85.725				
Se	77					
Se	82	97.471				
Kr	83					
Sr	88	95.651				
Y	89					
Mo	98	88.272				
Ag	107	84.233				
Cd	111	83.383				
Cd	114					
> In	115		84.2			
Sn	120	84.014				
Sb	121	90.140				
Sb	123					
Ba	135					
Ba	137	87.171				
Ho	165					
> Lu	175		86.6			
Tl	205	93.130				
Pb	208	94.660				
Bi	209					
Th	232	103.220				
U	238	108.293				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 10	Na	23	LRS is out of limits (+/- 10%)
QC Std 10	Mg	24	LRS is out of limits (+/- 10%)
QC Std 10	Al	27	LRS is out of limits (+/- 10%)
QC Std 10	P	31	LRS is out of limits (+/- 10%)
QC Std 10	K	39	LRS is out of limits (+/- 10%)
QC Std 10	V	51	LRS is out of limits (+/- 10%)
QC Std 10	Cr	52	LRS is out of limits (+/- 10%)

Sample ID: QC Std 10

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QC Std 10	Mn	55LRS is out of limits (+/- 10%)
QC Std 10	Co	59LRS is out of limits (+/- 10%)
QC Std 10	Ni	60LRS is out of limits (+/- 10%)
QC Std 10	Cu	65LRS is out of limits (+/- 10%)
QC Std 10	Zn	66LRS is out of limits (+/- 10%)
Ge 74 Int Std for QCGe		74
QC Std 10	As	75LRS is out of limits (+/- 10%)
QC Std 10	Mo	98LRS is out of limits (+/- 10%)
QC Std 10	Ag	107LRS is out of limits (+/- 10%)
QC Std 10	Cd	111LRS is out of limits (+/- 10%)
QC Std 10	Sn	120LRS is out of limits (+/- 10%)
QC Std 10	Ba	137LRS is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Wednesday, March 03, 2010 21:16:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 11.179

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	57.290	ug/L	0.373	157007	0.079
Be	9	52.287	ug/L	0.835	31247	0.016
B	11	98.592	ug/L	3.668	69253	0.035
Na	23	4965.867	ug/L	8.589	24616351	12.447
Mg	24	4684.656	ug/L	4.028	16342944	8.271
Al	27	4501.486	ug/L	9.677	21788602	11.022
P	31	4677.836	ug/L	0.298	1120034	0.561
K	39	4757.125	ug/L	3.763	26133396	12.965
Ca	43	4891.369	ug/L	0.971	70678	0.036
> Sc	45		ug/L		1976078	1976078.208
Ti	47	46.484	ug/L	0.798	37653	0.019
V	51	47.747	ug/L	3.895	360497	0.180
Cr	52	50.039	ug/L	2.320	293911	0.147
Cr	53		ug/L		143448	0.043
Mn	55	52.781	ug/L	0.611	521161	0.263
Fe	57	5353.075	ug/L	0.233	984598	0.496
Co	59	51.793	ug/L	0.354	383706	0.194
Ni	60	51.427	ug/L	0.754	83427	0.042
Cu	63		ug/L		193716	0.098
Cu	65	49.976	ug/L	0.261	94090	0.048
Zn	66	52.597	ug/L	2.844	68345	0.157
Zn	67		ug/L		30717	0.045
Zn	68		ug/L		50071	0.112
> Ge	74		ug/L		429145	429144.858
As	75	50.338	ug/L	1.440	62442	0.146
Se	77		ug/L		10210	0.019
Se	82	52.753	ug/L	1.451	7356	0.017
Kr	83		ug/L		92	-0.000
Sr	88	53.455	ug/L	3.214	902346	2.518
Y	89		ug/L		98	0.000
Mo	98	48.464	ug/L	3.124	209829	0.586
Ag	107	50.457	ug/L	1.566	382520	1.067
Cd	111	52.017	ug/L	2.257	109875	0.307
Cd	114		ug/L		257624	0.719
> In	115		ug/L		358391	358391.022
Sn	120	52.576	ug/L	2.720	457342	1.276
Sb	121	52.368	ug/L	2.090	373515	1.042
Sb	123		ug/L		297747	0.831
Ba	135		ug/L		110845	0.141
Ba	137	49.402	ug/L	1.561	200194	0.255
Ho	165		ug/L		54	0.000
> Lu	175		ug/L		784885	784884.647
Tl	205	51.419	ug/L	0.372	1475217	1.877
Pb	208	52.892	ug/L	0.849	2659361	3.388
Bi	209		ug/L		1099	-0.000
Th	232	52.347	ug/L	0.646	3107286	3.959
U	238	53.550	ug/L	2.222	3530932	4.500

Sample ID: QC Std 11

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
Li	7	114.580				
Be	9	104.574				
B	11	98.592				
Na	23	99.317				
Mg	24	93.693				
Al	27	89.138				
P	31	93.557				
K	39	95.142				
Ca	43	97.827				
> Sc	45		93.1			
Ti	47	92.967				
V	51	95.494				
Cr	52	100.078				
Cr	53					
Mn	55	105.562				
Fe	57	107.062				
Co	59	103.587				
Ni	60	102.854				
Cu	63					
Cu	65	99.952				
Zn	66	105.194				
Zn	67					
Zn	68					
> Ge	74		89.6			
As	75	100.676				
Se	77					
Se	82	105.506				
Kr	83					
Sr	88	106.910				
Y	89					
Mo	98	96.928				
Ag	107	100.913				
Cd	111	104.034				
Cd	114					
> In	115		96.6			
Sn	120	105.153				
Sb	121	104.735				
Sb	123					
Ba	135					
Ba	137	98.804				
Ho	165					
> Lu	175		102.4			
Tl	205	102.839				
Pb	208	105.783				
Bi	209					
Th	232	104.695				
U	238	107.100				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 11	Li	7	7CCV is out of limits (+/- 10%)
QC Std 11	Al	27	27CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Wednesday, March 03, 2010 21:22:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 12.180

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.066	ug/L	12.673	228	0.000
Be	9	0.024	ug/L	26.533	21	0.000
B	11	2.640	ug/L	15.884	2403	0.001
Na	23	1.216	ug/L	55.619	26024	0.003
Mg	24	1.409	ug/L	21.662	6335	0.002
Al	27	0.571	ug/L	235.837	8003	0.001
P	31	-11.327	ug/L	16.792	8581	-0.001
K	39	-15.727	ug/L	14.209	466841	-0.043
Ca	43	-1.594	ug/L	76.853	240	-0.000
> Sc	45		ug/L		2140753	2140753.470
Ti	47	-0.247	ug/L	12.160	322	-0.000
V	51	-0.123	ug/L	491.517	4800	-0.000
Cr	52	-0.034	ug/L	108.908	2858	-0.000
Cr	53		ug/L		66183	0.001
Mn	55	0.012	ug/L	42.247	1065	0.000
Fe	57	-0.731	ug/L	107.207	3739	-0.000
Co	59	0.015	ug/L	47.505	160	0.000
Ni	60	0.013	ug/L	107.774	140	0.000
Cu	63		ug/L		301	0.000
Cu	65	0.028	ug/L	13.484	140	0.000
Zn	66	0.411	ug/L	60.348	1653	0.001
Zn	67		ug/L		11384	-0.002
Zn	68		ug/L		2533	0.000
> Ge	74		ug/L		471709	471708.869
As	75	0.012	ug/L	1297.820	-145	0.000
Se	77		ug/L		2653	0.001
Se	82	0.138	ug/L	85.774	20	0.000
Kr	83		ug/L		86	-0.000
Sr	88	0.016	ug/L	31.052	424	0.001
Y	89		ug/L		51	-0.000
Mo	98	0.098	ug/L	15.802	516	0.001
Ag	107	0.012	ug/L	18.665	112	0.000
Cd	111	0.016	ug/L	44.243	57	0.000
Cd	114		ug/L		117	0.000
> In	115		ug/L		388227	388227.457
Sn	120	0.064	ug/L	2.714	815	0.002
Sb	121	0.325	ug/L	9.709	2596	0.006
Sb	123		ug/L		1983	0.005
Ba	135		ug/L		64	0.000
Ba	137	0.015	ug/L	28.071	98	0.000
Ho	165		ug/L		12	-0.000
> Lu	175		ug/L		833704	833704.274
Tl	205	0.642	ug/L	13.472	21363	0.023
Pb	208	0.061	ug/L	22.704	3616	0.004
Bi	209		ug/L		955	-0.000
Th	232	0.060	ug/L	11.430	4079	0.005
U	238	0.078	ug/L	26.973	5538	0.007

Sample ID: QC Std 12

Report Date/Time: Wednesday, March 03, 2010 21:25:32

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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						
|	B	11						
|	Na	23						
|	Mg	24						
|	Al	27						
|	P	31						
|	K	39						
|	Ca	43						
>	Sc	45		100.9				
|	Ti	47						
|	V	51						
|	Cr	52						
|	Cr	53						
|	Mn	55						
|	Fe	57						
|	Co	59						
|	Ni	60						
|	Cu	63						
|	Cu	65						
|	Zn	66						
|	Zn	67						
|	Zn	68						
>	Ge	74		98.5				
|	As	75						
|	Se	77						
|	Se	82						
|	Kr	83						
|	Sr	88						
|	Y	89						
|	Mo	98						
|	Ag	107						
|	Cd	111						
|	Cd	114						
>	In	115		104.7				
|	Sn	120						
|	Sb	121						
|	Sb	123						
|	Ba	135						
|	Ba	137						
|	Ho	165						
>	Lu	175		108.7				
|	Tl	205						
|	Pb	208						
|	Bi	209						
|	Th	232						
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 12

Report Date/Time: Wednesday, March 03, 2010 21:25:32

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ICPMS#5 - Summary Report

Sample ID: 1202036266

Sample Date/Time: Wednesday, March 03, 2010 21:28:55

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\1202036266.181

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.043	ug/L	9.757	154	0.000
Be	9	0.017	ug/L	14.121	17	0.000
B	11	1.189	ug/L	6.868	1258	0.000
Na	23	13.590	ug/L	23.553	89285	0.034
Mg	24	2.295	ug/L	28.177	9337	0.004
Al	27	5.836	ug/L	17.982	34375	0.014
P	31	50.096	ug/L	11.918	23523	0.006
K	39	-17.189	ug/L	33.199	442438	-0.047
Ca	43	17.556	ug/L	10.431	520	0.000
> Sc	45		ug/L		2066149	2066148.684
Ti	47	0.220	ug/L	28.522	701	0.000
V	51	-0.258	ug/L	124.651	3599	-0.001
Cr	52	0.392	ug/L	11.058	5354	0.001
Cr	53		ug/L		61851	0.000
Mn	55	0.290	ug/L	1.334	3893	0.001
Fe	57	20.054	ug/L	1.088	7592	0.002
Co	59	0.017	ug/L	18.118	168	0.000
Ni	60	0.108	ug/L	4.621	296	0.000
Cu	63		ug/L		1194	0.000
Cu	65	0.266	ug/L	1.440	604	0.000
Zn	66	0.590	ug/L	7.748	1774	0.002
Zn	67		ug/L		10449	-0.003
Zn	68		ug/L		2515	0.001
> Ge	74		ug/L		440242	440241.571
As	75	0.047	ug/L	283.409	-93	0.000
Se	77		ug/L		2505	0.001
Se	82	0.357	ug/L	31.661	50	0.000
Kr	83		ug/L		75	-0.000
Sr	88	0.065	ug/L	1.822	1311	0.003
Y	89		ug/L		97	0.000
Mo	98	0.117	ug/L	27.286	602	0.001
Ag	107	0.010	ug/L	21.489	98	0.000
Cd	111	0.015	ug/L	68.171	52	0.000
Cd	114		ug/L		89	0.000
> In	115		ug/L		385819	385818.598
Sn	120	0.190	ug/L	3.026	1985	0.005
Sb	121	0.110	ug/L	8.870	931	0.002
Sb	123		ug/L		714	0.002
Ba	135		ug/L		260	0.000
Ba	137	0.104	ug/L	3.972	473	0.001
Ho	165		ug/L		18	0.000
> Lu	175		ug/L		819910	819909.567
Tl	205	0.417	ug/L	2.177	14261	0.015
Pb	208	0.036	ug/L	6.332	2204	0.002
Bi	209		ug/L		749	-0.001
Th	232	0.133	ug/L	23.895	8551	0.010
U	238	0.034	ug/L	19.938	2414	0.003

Sample ID: 1202036266

Report Date/Time: Wednesday, March 03, 2010 21:31:37

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

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		97.3			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		91.9			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		104.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		106.9			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036271

Sample Date/Time: Wednesday, March 03, 2010 21:35:00

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 950262[40]ba]

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\1202036271.182

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	2.507	ug/L	2.147	7162	0.003
Be	9	18.714	ug/L	4.358	11607	0.006
B	11	34.493	ug/L	1.008	25407	0.012
Na	23	253.256	ug/L	13.123	1320992	0.635
Mg	24	945.445	ug/L	4.869	3427875	1.669
Al	27	2647.521	ug/L	6.210	13296963	6.482
P	31	183.408	ug/L	3.013	56156	0.022
K	39	1027.130	ug/L	7.608	6278140	2.799
Ca	43	2235.734	ug/L	2.775	33664	0.016
> Sc	45		ug/L		2051573	2051573.150
Ti	47	91.814	ug/L	2.604	76696	0.037
V	51	28.347	ug/L	4.339	224350	0.107
Cr	52	54.220	ug/L	1.941	330290	0.160
Cr	53		ug/L		107067	0.022
Mn	55	120.617	ug/L	2.034	1235000	0.602
Fe	57	4170.328	ug/L	2.031	796977	0.387
Co	59	22.767	ug/L	2.503	175075	0.085
Ni	60	32.551	ug/L	4.704	54827	0.027
Cu	63		ug/L		159269	0.078
Cu	65	40.413	ug/L	3.526	78969	0.038
Zn	66	141.261	ug/L	1.512	193866	0.422
Zn	67		ug/L		40847	0.063
Zn	68		ug/L		139124	0.299
> Ge	74		ug/L		457276	457275.721
As	75	24.814	ug/L	1.533	32719	0.072
Se	77		ug/L		10805	0.019
Se	82	73.101	ug/L	2.367	10861	0.024
Kr	83		ug/L		78	-0.000
Sr	88	52.717	ug/L	3.575	957405	2.484
Y	89		ug/L		54588	0.141
Mo	98	11.129	ug/L	1.358	51898	0.134
Ag	107	1.077	ug/L	4.257	8802	0.023
Cd	111	13.724	ug/L	2.038	31205	0.081
Cd	114		ug/L		76005	0.197
> In	115		ug/L		385618	385618.055
Sn	120	7.793	ug/L	1.850	73123	0.189
Sb	121	15.235	ug/L	2.193	116963	0.303
Sb	123		ug/L		91702	0.238
Ba	135		ug/L		101504	0.125
Ba	137	43.234	ug/L	3.265	180531	0.223
Ho	165		ug/L		5321	0.007
> Lu	175		ug/L		809184	809183.735
Tl	205	30.745	ug/L	2.036	909859	1.123
Pb	208	21.169	ug/L	1.992	1097270	1.356
Bi	209		ug/L		10529	0.011
Th	232	2.943	ug/L	3.097	180302	0.223
U	238	0.558	ug/L	2.785	37986	0.047

Sample ID: 1202036271

Report Date/Time: Wednesday, March 03, 2010 21:37:42

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		96.7			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		95.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		104.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		105.5			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202036271

Report Date/Time: Wednesday, March 03, 2010 21:37:42

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ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Wednesday, March 03, 2010 21:59:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 8.186

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	57.133	ug/L	2.203	151678	0.079
Be	9	51.858	ug/L	0.525	30015	0.016
B	11	99.176	ug/L	2.049	67480	0.035
Na	23	4899.075	ug/L	2.934	23525753	12.279
Mg	24	4685.752	ug/L	2.458	15837104	8.273
Al	27	4333.253	ug/L	6.559	20320774	10.610
P	31	4557.607	ug/L	0.063	1057159	0.547
K	39	4557.887	ug/L	6.947	24262865	12.422
Ca	43	4813.816	ug/L	0.925	67366	0.035
> Sc	45		ug/L		1913876	1913876.154
Ti	47	43.739	ug/L	0.910	34342	0.018
V	51	47.327	ug/L	1.661	346176	0.178
Cr	52	49.259	ug/L	0.501	280245	0.145
Cr	53		ug/L		135289	0.041
Mn	55	51.334	ug/L	1.019	490967	0.256
Fe	57	5332.915	ug/L	1.791	949961	0.495
Co	59	50.674	ug/L	1.096	363568	0.190
Ni	60	50.364	ug/L	2.950	79107	0.041
Cu	63		ug/L		183665	0.096
Cu	65	48.697	ug/L	1.648	88781	0.046
Zn	66	51.657	ug/L	0.923	64112	0.154
Zn	67		ug/L		25723	0.036
Zn	68		ug/L		47175	0.110
> Ge	74		ug/L		409696	409695.677
As	75	50.313	ug/L	1.306	59585	0.146
Se	77		ug/L		10422	0.021
Se	82	52.825	ug/L	2.167	7032	0.017
Kr	83		ug/L		81	-0.000
Sr	88	52.086	ug/L	2.505	835890	2.454
Y	89		ug/L		161	0.000
Mo	98	47.910	ug/L	1.383	197226	0.579
Ag	107	50.193	ug/L	2.511	361691	1.062
Cd	111	51.164	ug/L	2.421	102740	0.302
Cd	114		ug/L		245853	0.722
> In	115		ug/L		340681	340680.588
Sn	120	51.846	ug/L	2.502	428736	1.258
Sb	121	52.318	ug/L	1.329	354724	1.041
Sb	123		ug/L		278404	0.817
Ba	135		ug/L		106495	0.141
Ba	137	47.693	ug/L	2.111	186116	0.246
Ho	165		ug/L		63	0.000
> Lu	175		ug/L		755895	755895.280
Tl	205	51.162	ug/L	2.199	1413480	1.868
Pb	208	53.323	ug/L	0.475	2582290	3.416
Bi	209		ug/L		1116	-0.000
Th	232	51.887	ug/L	2.427	2966022	3.924
U	238	52.098	ug/L	2.174	3309064	4.378

Sample ID: QC Std 8

Report Date/Time: Wednesday, March 03, 2010 22:02:10

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7	114.266				
Be	9	103.716				
B	11	99.176				
Na	23	97.982				
Mg	24	93.715				
Al	27	85.807				
P	31	91.152				
K	39	91.158				
Ca	43	96.276				
> Sc	45		90.2			
Ti	47	87.477				
V	51	94.654				
Cr	52	98.518				
Cr	53					
Mn	55	102.668				
Fe	57	106.658				
Co	59	101.348				
Ni	60	100.727				
Cu	63					
Cu	65	97.393				
Zn	66	103.314				
Zn	67					
Zn	68					
> Ge	74		85.5			
As	75	100.626				
Se	77					
Se	82	105.650				
Kr	83					
Sr	88	104.171				
Y	89					
Mo	98	95.821				
Ag	107	100.386				
Cd	111	102.328				
Cd	114					
> In	115		91.8			
Sn	120	103.693				
Sb	121	104.635				
Sb	123					
Ba	135					
Ba	137	95.387				
Ho	165					
> Lu	175		98.6			
Tl	205	102.324				
Pb	208	106.645				
Bi	209					
Th	232	103.774				
U	238	104.195				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Li	7	7CCV is out of limits (+/- 10%)
QC Std 8	Al	27	27CCV is out of limits (+/- 10%)
QC Std 8	Ti	47	47CCV is out of limits (+/- 10%)

QC Action

Sample ID: QC Std 8
 Report Date/Time: Wednesday, March 03, 2010 22:02:10
 Page 3

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Wednesday, March 03, 2010 22:05:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 9.187

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.051	ug/L	4.122	174	0.000
Be	9	0.007	ug/L	107.770	10	0.000
B	11	2.472	ug/L	14.733	2146	0.001
Na	23	0.110	ug/L	1121.293	19014	0.000
Mg	24	0.848	ug/L	84.835	4001	0.001
Al	27	0.387	ug/L	77.943	6668	0.001
P	31	-13.402	ug/L	8.264	7587	-0.002
K	39	-17.888	ug/L	37.961	428017	-0.049
Ca	43	-2.873	ug/L	129.611	208	-0.000
> Sc	45		ug/L		2016866	2016865.927
Ti	47	-0.248	ug/L	5.083	303	-0.000
V	51	-0.949	ug/L	27.295	-1735	-0.004
Cr	52	0.251	ug/L	21.830	4379	0.001
Cr	53		ug/L		63172	0.001
Mn	55	0.020	ug/L	19.645	1093	0.000
Fe	57	-0.021	ug/L	3575.173	3654	-0.000
Co	59	0.008	ug/L	29.107	94	0.000
Ni	60	-0.001	ug/L	314.479	109	-0.000
Cu	63		ug/L		195	0.000
Cu	65	0.009	ug/L	134.881	96	0.000
Zn	66	-0.238	ug/L	2.980	708	-0.001
Zn	67		ug/L		9541	-0.005
Zn	68		ug/L		1583	-0.002
> Ge	74		ug/L		453716	453716.361
As	75	0.315	ug/L	21.884	260	0.001
Se	77		ug/L		3173	0.003
Se	82	0.208	ug/L	47.641	30	0.000
Kr	83		ug/L		79	-0.000
Sr	88	0.006	ug/L	75.906	227	0.000
Y	89		ug/L		77	0.000
Mo	98	0.026	ug/L	38.209	176	0.000
Ag	107	0.007	ug/L	48.329	69	0.000
Cd	111	0.002	ug/L	148.010	23	0.000
Cd	114		ug/L		64	0.000
> In	115		ug/L		374153	374153.246
Sn	120	0.021	ug/L	30.543	389	0.001
Sb	121	0.070	ug/L	8.783	606	0.001
Sb	123		ug/L		475	0.001
Ba	135		ug/L		36	0.000
Ba	137	0.006	ug/L	38.105	60	0.000
Ho	165		ug/L		14	-0.000
> Lu	175		ug/L		822077	822077.154
Tl	205	0.475	ug/L	16.016	16048	0.017
Pb	208	0.012	ug/L	49.202	940	0.001
Bi	209		ug/L		697	-0.001
Th	232	0.022	ug/L	14.864	1667	0.002
U	238	0.011	ug/L	37.062	818	0.001

Sample ID: QC Std 9

Report Date/Time: Wednesday, March 03, 2010 22:08:19

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		95.0			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		94.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		100.9			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		107.2			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Wednesday, March 03, 2010 22:08:19

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ICPMS#5 - Summary Report

Sample ID: 246322001

Sample Date/Time: Wednesday, March 03, 2010 22:11:44

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\246322001.188

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	21.549	ug/L	0.288	58980	0.030
Be	9	0.576	ug/L	7.150	349	0.000
B	11	5.249	ug/L	1.097	4033	0.002
Na	23	391.262	ug/L	2.275	1953223	0.981
Mg	24	6191.829	ug/L	2.410	21568166	10.932
Al	27	10573.330	ug/L	1.968	51078199	25.889
P	31	789.215	ug/L	1.318	197494	0.095
K	39	2227.678	ug/L	2.893	12493229	6.071
Ca	43	8363.724	ug/L	1.914	120494	0.061
> Sc	45		ug/L		1972985	1972984.611
Ti	47	494.112	ug/L	1.683	394804	0.200
V	51	60.363	ug/L	1.016	453634	0.227
Cr	52	77.681	ug/L	0.985	453972	0.229
Cr	53		ug/L		111123	0.026
Mn	55	458.991	ug/L	2.229	4517470	2.290
Fe	57	21886.266	ug/L	1.465	4007873	2.030
Co	59	8.855	ug/L	1.519	65536	0.033
Ni	60	14.914	ug/L	1.185	24234	0.012
Cu	63		ug/L		484996	0.246
Cu	65	128.530	ug/L	1.447	241459	0.122
Zn	66	101.503	ug/L	1.660	126514	0.303
Zn	67		ug/L		29473	0.045
Zn	68		ug/L		93628	0.221
> Ge	74		ug/L		414441	414441.346
As	75	5.399	ug/L	3.575	6340	0.016
Se	77		ug/L		2524	0.002
Se	82	1.415	ug/L	8.506	190	0.000
Kr	83		ug/L		143	0.000
Sr	88	45.547	ug/L	2.321	778628	2.146
Y	89		ug/L		757711	2.088
Mo	98	0.960	ug/L	1.549	4262	0.012
Ag	107	0.137	ug/L	9.802	1068	0.003
Cd	111	0.531	ug/L	6.831	1154	0.003
Cd	114		ug/L		773	0.002
> In	115		ug/L		362858	362857.953
Sn	120	1.630	ug/L	0.852	14554	0.040
Sb	121	0.261	ug/L	0.267	1967	0.005
Sb	123		ug/L		1523	0.004
Ba	135		ug/L		439620	0.555
Ba	137	184.544	ug/L	2.961	755169	0.953
Ho	165		ug/L		66966	0.084
> Lu	175		ug/L		793172	793172.256
Tl	205	0.365	ug/L	8.050	12289	0.013
Pb	208	353.844	ug/L	2.312	17970330	22.667
Bi	209		ug/L		11187	0.013
Th	232	10.707	ug/L	2.860	642156	0.810
U	238	5.531	ug/L	2.202	368531	0.465

Sample ID: 246322001

Report Date/Time: Wednesday, March 03, 2010 22:14:27

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		93.0			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		86.5			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		97.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		103.5			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte

Ti 47 Upper, S, EEETi

MassOut of Limits Message

47Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 246322001

Report Date/Time: Wednesday, March 03, 2010 22:14:27

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ICPMS#5 - Summary Report

Sample ID: 1202036267

Sample Date/Time: Wednesday, March 03, 2010 22:17:50

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\1202036267.189

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	19.265	ug/L	3.142	52288	0.027
Be	9	0.728	ug/L	2.651	436	0.000
B	11	5.256	ug/L	0.859	4004	0.002
Na	23	647.570	ug/L	4.273	3193894	1.623
Mg	24	4532.162	ug/L	2.683	15656831	8.001
Al	27	11665.737	ug/L	5.326	55900266	28.564
P	31	1004.978	ug/L	1.471	246481	0.121
K	39	2452.610	ug/L	1.773	13586123	6.684
Ca	43	24931.881	ug/L	1.010	355685	0.182
> Sc	45		ug/L		1956310	1956310.055
Ti	47	386.790	ug/L	1.465	306562	0.156
V	51	26.842	ug/L	1.575	202984	0.101
Cr	52	17.092	ug/L	1.087	101232	0.050
Cr	53		ug/L		71899	0.007
Mn	55	440.387	ug/L	2.731	4298117	2.197
Fe	57	20729.844	ug/L	3.879	3763849	1.922
Co	59	7.008	ug/L	1.038	51427	0.026
Ni	60	15.195	ug/L	2.512	24479	0.012
Cu	63		ug/L		634480	0.324
Cu	65	170.938	ug/L	2.836	318382	0.163
Zn	66	90.371	ug/L	0.442	112636	0.270
Zn	67		ug/L		26555	0.038
Zn	68		ug/L		83163	0.196
> Ge	74		ug/L		413996	413995.590
As	75	4.560	ug/L	7.807	5331	0.013
Se	77		ug/L		3526	0.004
Se	82	2.252	ug/L	16.681	302	0.001
Kr	83		ug/L		125	0.000
Sr	88	95.094	ug/L	0.741	1595290	4.480
Y	89		ug/L		387414	1.088
Mo	98	0.987	ug/L	0.449	4300	0.012
Ag	107	0.174	ug/L	2.042	1326	0.004
Cd	111	0.470	ug/L	10.639	1005	0.003
Cd	114		ug/L		1002	0.003
> In	115		ug/L		356089	356088.764
Sn	120	1.318	ug/L	1.145	11577	0.032
Sb	121	0.221	ug/L	2.346	1650	0.004
Sb	123		ug/L		1251	0.003
Ba	135		ug/L		429869	0.551
Ba	137	184.939	ug/L	1.450	744820	0.955
Ho	165		ug/L		38073	0.049
> Lu	175		ug/L		780164	780164.001
Tl	205	0.326	ug/L	3.150	10983	0.012
Pb	208	128.619	ug/L	1.074	6428336	8.239
Bi	209		ug/L		13512	0.016
Th	232	15.126	ug/L	1.915	892799	1.144
U	238	5.509	ug/L	1.340	361190	0.463

Sample ID: 1202036267

Report Date/Time: Wednesday, March 03, 2010 22:20:32

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		92.2			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		86.4			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		96.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		101.8			
Ti	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte

Ti 47 Upper, S, EEETi

MassOut of Limits Message

47Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202036267

Report Date/Time: Wednesday, March 03, 2010 22:20:32

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ICPMS#5 - Summary Report

Sample ID: 1202036269

Sample Date/Time: Wednesday, March 03, 2010 22:23:56

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\1202036269.190

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	58.726	ug/L	3.990	158562	0.081
Be	9	23.506	ug/L	3.422	13842	0.007
B	11	47.422	ug/L	4.418	33002	0.017
Na	23	1537.109	ug/L	10.246	7514901	3.853
Mg	24	9418.901	ug/L	3.622	32373774	16.629
Al	27	14982.101	ug/L	4.129	71438040	36.684
P	31	2267.591	ug/L	1.849	540358	0.272
K	39	2659.389	ug/L	3.538	14618969	7.248
Ca	43	8849.666	ug/L	3.096	125789	0.064
> Sc	45		ug/L		1947407	1947407.237
Ti	47	253.377	ug/L	2.714	200041	0.102
V	51	59.285	ug/L	2.922	439763	0.223
Cr	52	42.946	ug/L	1.813	248946	0.126
Cr	53		ug/L		81069	0.012
Mn	55	631.162	ug/L	3.731	6130077	3.148
Fe	57	33883.346	ug/L	5.098	6120039	3.142
Co	59	37.717	ug/L	3.003	275302	0.141
Ni	60	37.438	ug/L	0.709	59878	0.031
Cu	63		ug/L		616752	0.317
Cu	65	167.396	ug/L	2.708	310330	0.159
Zn	66	153.880	ug/L	1.279	191473	0.459
Zn	67		ug/L		38980	0.068
Zn	68		ug/L		140516	0.334
> Ge	74		ug/L		414780	414779.730
As	75	39.882	ug/L	0.342	47793	0.116
Se	77		ug/L		3519	0.004
Se	82	10.338	ug/L	2.763	1392	0.003
Kr	83		ug/L		126	0.000
Sr	88	66.013	ug/L	1.721	1089877	3.110
Y	89		ug/L		357468	1.020
Mo	98	24.234	ug/L	1.111	102655	0.293
Ag	107	24.470	ug/L	0.924	181427	0.518
Cd	111	4.018	ug/L	1.444	8317	0.024
Cd	114		ug/L		25588	0.073
> In	115		ug/L		350441	350440.987
Sn	120	25.129	ug/L	3.994	213878	0.610
Sb	121	90.100	ug/L	1.019	628402	1.793
Sb	123		ug/L		495114	1.413
Ba	135		ug/L		535415	0.687
Ba	137	228.391	ug/L	4.449	919298	1.179
Ho	165		ug/L		33916	0.043
> Lu	175		ug/L		780208	780207.573
Tl	205	50.789	ug/L	2.287	1447972	1.854
Pb	208	164.508	ug/L	2.819	8218723	10.538
Bi	209		ug/L		13664	0.016
Th	232	43.215	ug/L	3.481	2548860	3.268
U	238	29.547	ug/L	4.167	1935946	2.483

Sample ID: 1202036269

Report Date/Time: Wednesday, March 03, 2010 22:26:38

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		91.8			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		86.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		94.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		101.8			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte

Ti 47 Upper, S, EEE Ti

Mass Out of Limits Message

47 Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202036269

Report Date/Time: Wednesday, March 03, 2010 22:26:38

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ICPMS#5 - Summary Report

Sample ID: 1202036270

Sample Date/Time: Wednesday, March 03, 2010 22:30:02

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 950262[2]ba]

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\1202036270.191

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	47.661	ug/L	1.578	126045	0.066
Be	9	21.702	ug/L	1.070	12519	0.007
B	11	47.275	ug/L	0.618	32232	0.017
Na	23	1786.970	ug/L	6.924	8554377	4.479
Mg	24	8693.804	ug/L	1.768	29274157	15.349
Al	27	13954.914	ug/L	3.477	65187211	34.169
P	31	1754.360	ug/L	0.518	411769	0.211
K	39	3169.376	ug/L	4.461	16963889	8.638
Ca	43	93286.571	ug/L	0.779	1296597	0.680
> Sc	45		ug/L		1907069	1907069.324
Ti	47	542.446	ug/L	1.365	418923	0.219
V	51	55.812	ug/L	0.740	405841	0.210
Cr	52	44.708	ug/L	0.428	253710	0.132
Cr	53		ug/L		80249	0.012
Mn	55	833.319	ug/L	2.620	7927595	4.157
Fe	57	26695.270	ug/L	0.726	4724564	2.476
Co	59	33.684	ug/L	0.446	240852	0.126
Ni	60	52.613	ug/L	1.225	82362	0.043
Cu	63		ug/L		596123	0.313
Cu	65	165.820	ug/L	1.539	301098	0.158
Zn	66	135.410	ug/L	0.735	161799	0.404
Zn	67		ug/L		34121	0.059
Zn	68		ug/L		118393	0.292
> Ge	74		ug/L		398018	398018.440
As	75	41.757	ug/L	0.214	48023	0.121
Se	77		ug/L		5312	0.009
Se	82	9.624	ug/L	5.825	1244	0.003
Kr	83		ug/L		178	0.000
Sr	88	243.102	ug/L	2.826	3848411	11.453
Y	89		ug/L		537648	1.600
Mo	98	24.098	ug/L	1.407	97907	0.291
Ag	107	23.341	ug/L	0.736	165980	0.494
Cd	111	3.664	ug/L	5.930	7272	0.022
Cd	114		ug/L		23654	0.070
> In	115		ug/L		336075	336075.234
Sn	120	22.586	ug/L	0.638	184400	0.548
Sb	121	79.406	ug/L	0.289	531146	1.580
Sb	123		ug/L		417298	1.242
Ba	135		ug/L		608194	0.831
Ba	137	277.123	ug/L	0.735	1047611	1.431
Ho	165		ug/L		49737	0.068
> Lu	175		ug/L		732275	732275.229
Tl	205	50.763	ug/L	0.739	1358773	1.853
Pb	208	194.212	ug/L	1.495	9109676	12.441
Bi	209		ug/L		18369	0.024
Th	232	35.804	ug/L	1.113	1982893	2.708
U	238	30.704	ug/L	1.544	1889217	2.580

Sample ID: 1202036270

Report Date/Time: Wednesday, March 03, 2010 22:32:44

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		89.9			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		83.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		90.6			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		95.5			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ca 43 Upper, S, EEI	Ca	43	Sample is out of limits (over linear range)
Ti 47 Upper, S, EEE	Ti	47	Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036268

Sample Date/Time: Wednesday, March 03, 2010 22:36:08

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 950262|10|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\1202036268.192

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	4.315	ug/L	0.427	11490	0.006
Be	9	0.125	ug/L	5.394	78	0.000
B	11	2.452	ug/L	11.871	2020	0.001
Na	23	90.669	ug/L	7.603	453108	0.227
Mg	24	1178.999	ug/L	5.675	3990218	2.081
Al	27	2064.814	ug/L	5.621	9691575	5.056
P	31	160.420	ug/L	3.592	47157	0.019
K	39	368.437	ug/L	3.113	2422984	1.004
Ca	43	1645.327	ug/L	0.527	23206	0.012
> Sc	45		ug/L		1915673	1915673.087
Ti	47	96.976	ug/L	1.759	75630	0.039
V	51	11.708	ug/L	2.843	89606	0.044
Cr	52	15.652	ug/L	0.131	91010	0.046
Cr	53		ug/L		72742	0.008
Mn	55	100.626	ug/L	0.491	962391	0.502
Fe	57	4013.748	ug/L	1.897	716675	0.372
Co	59	1.707	ug/L	2.328	12291	0.006
Ni	60	2.990	ug/L	0.197	4802	0.002
Cu	63		ug/L		99829	0.052
Cu	65	26.583	ug/L	1.145	48549	0.025
Zn	66	21.204	ug/L	1.368	26963	0.063
Zn	67		ug/L		12683	0.005
Zn	68		ug/L		20552	0.045
> Ge	74		ug/L		411233	411232.788
As	75	0.999	ug/L	39.648	1046	0.003
Se	77		ug/L		3378	0.004
Se	82	0.552	ug/L	19.540	73	0.000
Kr	83		ug/L		74	-0.000
Sr	88	9.375	ug/L	4.034	155251	0.442
Y	89		ug/L		145938	0.415
Mo	98	0.205	ug/L	7.423	924	0.002
Ag	107	0.029	ug/L	7.236	229	0.001
Cd	111	0.114	ug/L	10.695	254	0.001
Cd	114		ug/L		174	0.000
> In	115		ug/L		351311	351310.508
Sn	120	0.356	ug/L	3.247	3222	0.009
Sb	121	0.093	ug/L	2.996	732	0.002
Sb	123		ug/L		591	0.002
Ba	135		ug/L		83645	0.108
Ba	137	37.964	ug/L	2.625	151543	0.196
Ho	165		ug/L		12964	0.017
> Lu	175		ug/L		773249	773249.075
Tl	205	0.134	ug/L	3.848	5460	0.005
Pb	208	74.070	ug/L	1.138	3668906	4.745
Bi	209		ug/L		2633	0.002
Th	232	2.181	ug/L	1.435	127816	0.165
U	238	1.095	ug/L	1.258	71168	0.092

Sample ID: 1202036268

Report Date/Time: Wednesday, March 03, 2010 22:38:51

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		90.3			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		85.8			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		94.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		100.9			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202036268

Report Date/Time: Wednesday, March 03, 2010 22:38:51

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ICPMS#5 - Summary Report

Sample ID: 246322002

Sample Date/Time: Wednesday, March 03, 2010 22:42:15

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|ba|

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\246322002.193

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	29.392	ug/L	2.144	79892	0.041
Be	9	3.040	ug/L	4.457	1806	0.001
B	11	5.990	ug/L	0.792	4520	0.002
Na	23	753.134	ug/L	7.362	3719718	1.888
Mg	24	5322.581	ug/L	4.067	18412046	9.397
Al	27	24699.940	ug/L	7.440	118587146	60.478
P	31	873.765	ug/L	1.483	216043	0.105
K	39	3174.821	ug/L	3.840	17468302	8.653
Ca	43	17630.875	ug/L	1.496	251990	0.128
> Sc	45		ug/L		1959731	1959731.002
Ti	47	634.043	ug/L	1.572	503169	0.256
V	51	42.851	ug/L	2.748	321478	0.161
Cr	52	25.378	ug/L	1.888	149240	0.075
Cr	53		ug/L		70121	0.006
Mn	55	789.760	ug/L	2.058	7721103	3.940
Fe	57	40968.569	ug/L	0.902	7448878	3.799
Co	59	16.008	ug/L	0.508	117639	0.060
Ni	60	21.119	ug/L	0.376	34041	0.017
Cu	63		ug/L		135532	0.069
Cu	65	36.593	ug/L	1.892	68338	0.035
Zn	66	91.145	ug/L	1.290	112092	0.272
Zn	67		ug/L		27186	0.040
Zn	68		ug/L		84546	0.202
> Ge	74		ug/L		408539	408539.042
As	75	5.187	ug/L	2.548	6000	0.015
Se	77		ug/L		2820	0.002
Se	82	0.146	ug/L	55.977	19	0.000
Kr	83		ug/L		234	0.000
Sr	88	89.468	ug/L	2.539	1485378	4.215
Y	89		ug/L		1011352	2.871
Mo	98	2.122	ug/L	2.702	9087	0.026
Ag	107	0.311	ug/L	5.702	2336	0.007
Cd	111	1.016	ug/L	5.649	2127	0.006
Cd	114		ug/L		780	0.002
> In	115		ug/L		352533	352532.838
Sn	120	1.263	ug/L	1.878	10991	0.031
Sb	121	0.414	ug/L	5.195	2983	0.008
Sb	123		ug/L		2387	0.007
Ba	135		ug/L		711957	0.914
Ba	137	301.729	ug/L	2.018	1213724	1.558
Ho	165		ug/L		106311	0.136
> Lu	175		ug/L		779359	779358.759
Tl	205	0.396	ug/L	1.844	12971	0.014
Pb	208	34.663	ug/L	2.399	1730492	2.220
Bi	209		ug/L		15900	0.019
Th	232	18.286	ug/L	2.809	1077787	1.383
U	238	32.966	ug/L	3.462	2158270	2.770

Sample ID: 246322002

Report Date/Time: Wednesday, March 03, 2010 22:44:58

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		92.3			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		85.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		95.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		101.7			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte

Ti 47 Upper, S, EEE Ti

Mass Out of Limits Message

47 Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 246322002

Report Date/Time: Wednesday, March 03, 2010 22:44:58

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ICPMS#5 - Summary Report

Sample ID: 246322003
Sample Date/Time: Wednesday, March 03, 2010 22:48:22
Sample Type:
Sample Description: LANL 6020
Number of Replicates: 3
Batch ID: 950262|2|baj
Method File: c:\elandata\Method\6020 2.mth
Dataset File: C:\elandata\Dataset\100303\246322003.194

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Li	7	27.034	ug/L	1.754	74343	0.037
|	Be	9	0.666	ug/L	1.440	405	0.000
|	B	11	3.543	ug/L	3.332	2856	0.001
|	Na	23	672.388	ug/L	8.208	3356996	1.685
|	Mg	24	9150.840	ug/L	0.901	32029372	16.156
|	Al	27	13828.077	ug/L	5.397	67151758	33.858
|	P	31	1218.113	ug/L	0.204	300481	0.146
|	K	39	2259.846	ug/L	9.498	12736428	6.159
|	Ca	43	19128.285	ug/L	0.982	276602	0.139
>	Sc	45		ug/L		1982481	1982480.640
|	Ti	47	552.230	ug/L	0.881	443396	0.223
|	V	51	37.116	ug/L	2.061	282400	0.140
|	Cr	52	32.638	ug/L	1.687	193337	0.096
|	Cr	53		ug/L		76717	0.009
|	Mn	55	547.699	ug/L	1.632	5417861	2.732
|	Fe	57	39884.639	ug/L	1.359	7336409	3.699
|	Co	59	9.728	ug/L	0.302	72333	0.036
|	Ni	60	25.287	ug/L	1.540	41215	0.021
|	Cu	63		ug/L		254577	0.128
|	Cu	65	67.432	ug/L	0.383	127343	0.064
|	Zn	66	88.902	ug/L	0.894	112021	0.265
|	Zn	67		ug/L		26768	0.038
|	Zn	68		ug/L		84552	0.197
>	Ge	74		ug/L		418457	418456.576
|	As	75	6.226	ug/L	3.177	7406	0.018
|	Se	77		ug/L		2933	0.003
|	Se	82	0.939	ug/L	16.436	127	0.000
|	Kr	83		ug/L		137	0.000
|	Sr	88	64.326	ug/L	0.656	1062132	3.031
|	Y	89		ug/L		454443	1.297
|	Mo	98	1.254	ug/L	1.164	5361	0.015
|	Ag	107	0.170	ug/L	4.272	1273	0.004
|	Cd	111	0.596	ug/L	5.335	1247	0.004
|	Cd	114		ug/L		1069	0.003
>	In	115		ug/L		350460	350460.138
|	Sn	120	1.081	ug/L	2.419	9383	0.026
|	Sb	121	0.344	ug/L	4.694	2482	0.007
|	Sb	123		ug/L		1957	0.005
|	Ba	135		ug/L		644719	0.830
|	Ba	137	279.809	ug/L	1.634	1122270	1.444
|	Ho	165		ug/L		45579	0.059
>	Lu	175		ug/L		776997	776997.484
|	Tl	205	0.240	ug/L	1.720	8514	0.009
|	Pb	208	50.885	ug/L	0.549	2533002	3.260
|	Bi	209		ug/L		18215	0.022
|	Th	232	46.701	ug/L	2.308	2744331	3.532
|	U	238	10.158	ug/L	1.430	663238	0.854

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
>	Sc	45		93.4			
|	Ti	47					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
[	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74		87.3			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[	Sr	88					
|	Y	89					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		94.5			
|	Sn	120					
|	Sb	121					
|	Sb	123					
[	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		101.3			
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	Th	232					
|	U	238					

QC Out Of Limits

Measurement Type Analyte
Ti 47 Upper, S, EEE Ti

Mass Out of Limits Message
47 Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Wednesday, March 03, 2010 22:54:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 8.195

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	56.287	ug/L	1.683	148132	0.078
|	Be	9	50.954	ug/L	2.320	29238	0.015
|	B	11	98.113	ug/L	2.765	66181	0.035
|	Na	23	5238.266	ug/L	11.457	24949859	13.130
|	Mg	24	4759.957	ug/L	1.252	15947420	8.404
|	Al	27	4596.585	ug/L	4.586	21367229	11.255
|	P	31	4562.437	ug/L	0.856	1049329	0.548
|	K	39	4478.238	ug/L	10.384	23635351	12.205
|	Ca	43	4754.818	ug/L	0.889	65989	0.035
>	Sc	45		ug/L		1897834	1897833.895
|	Ti	47	44.963	ug/L	3.043	34984	0.018
|	V	51	47.086	ug/L	3.748	341591	0.177
|	Cr	52	50.679	ug/L	0.656	285827	0.149
|	Cr	53		ug/L		141879	0.045
|	Mn	55	52.416	ug/L	2.935	496911	0.261
|	Fe	57	5364.039	ug/L	0.411	947566	0.497
|	Co	59	51.085	ug/L	1.834	363456	0.192
|	Ni	60	51.238	ug/L	2.279	79810	0.042
|	Cu	63		ug/L		182070	0.096
|	Cu	65	49.371	ug/L	2.326	89251	0.047
[	Zn	66	51.982	ug/L	1.584	64725	0.155
|	Zn	67		ug/L		25689	0.036
|	Zn	68		ug/L		46909	0.109
>	Ge	74		ug/L		411085	411085.193
|	As	75	50.554	ug/L	2.423	60070	0.146
|	Se	77		ug/L		11012	0.022
|	Se	82	52.778	ug/L	1.591	7051	0.017
|	Kr	83		ug/L		92	-0.000
[	Sr	88	53.188	ug/L	0.409	863452	2.506
|	Y	89		ug/L		139	0.000
|	Mo	98	47.345	ug/L	1.261	197127	0.572
|	Ag	107	50.176	ug/L	1.851	365707	1.062
|	Cd	111	50.699	ug/L	1.786	102969	0.299
|	Cd	114		ug/L		243653	0.707
>	In	115		ug/L		344537	344536.943
|	Sn	120	51.667	ug/L	1.978	432206	1.254
|	Sb	121	51.977	ug/L	0.748	356447	1.034
[	Sb	123		ug/L		278671	0.809
|	Ba	135		ug/L		107205	0.140
|	Ba	137	48.094	ug/L	1.892	190143	0.248
|	Ho	165		ug/L		49	0.000
>	Lu	175		ug/L		765784	765783.685
|	Tl	205	51.028	ug/L	0.402	1428305	1.863
|	Pb	208	53.220	ug/L	1.310	2610661	3.409
|	Bi	209		ug/L		1008	-0.000
|	Th	232	51.184	ug/L	2.455	2963696	3.871
[U	238	52.458	ug/L	3.425	3374410	4.408

Sample ID: QC Std 8

Report Date/Time: Wednesday, March 03, 2010 22:57:13

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
|	Li	7	112.573				
|	Be	9	101.908				
|	B	11	98.113				
|	Na	23	104.765				
|	Mg	24	95.199				
|	Al	27	91.021				
|	P	31	91.249				
|	K	39	89.565				
|	Ca	43	95.096				
>	Sc	45		89.4			
|	Ti	47	89.925				
|	V	51	94.172				
|	Cr	52	101.358				
|	Cr	53					
|	Mn	55	104.832				
|	Fe	57	107.281				
|	Co	59	102.170				
|	Ni	60	102.476				
|	Cu	63					
|	Cu	65	98.742				
|	Zn	66	103.963				
|	Zn	67					
|	Zn	68					
>	Ge	74		85.8			
|	As	75	101.107				
|	Se	77					
|	Se	82	105.556				
|	Kr	83					
|	Sr	88	106.376				
|	Y	89					
|	Mo	98	94.690				
|	Ag	107	100.352				
|	Cd	111	101.399				
|	Cd	114					
>	In	115		92.9			
|	Sn	120	103.334				
|	Sb	121	103.953				
|	Sb	123					
|	Ba	135					
|	Ba	137	96.188				
|	Ho	165					
>	Lu	175		99.9			
|	Tl	205	102.056				
|	Pb	208	106.440				
|	Bi	209					
|	Th	232	102.367				
|	U	238	104.916				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Li	7	7CCV is out of limits (+/- 10%)
QC Std 8	K	39	39CCV is out of limits (+/- 10%)
QC Std 8	Ti	47	47CCV is out of limits (+/- 10%)

QC Action

Sample ID: QC Std 8
 Report Date/Time: Wednesday, March 03, 2010 22:57:13
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QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Wednesday, March 03, 2010 23:00:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 9.196

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.030	ug/L	21.624	110	0.000
Be	9	0.007	ug/L	44.673	10	0.000
B	11	2.417	ug/L	20.163	2034	0.001
Na	23	-1.330	ug/L	84.709	11339	-0.003
Mg	24	0.208	ug/L	281.884	1667	0.000
Al	27	-0.051	ug/L	510.643	4334	-0.000
P	31	-11.626	ug/L	13.916	7754	-0.001
K	39	-25.255	ug/L	14.163	374516	-0.069
Ca	43	-4.496	ug/L	31.165	177	-0.000
> Sc	45		ug/L		1950582	1950581.879
Ti	47	-0.256	ug/L	8.814	287	-0.000
V	51	-0.136	ug/L	357.629	4240	-0.001
Cr	52	0.383	ug/L	12.999	4994	0.001
Cr	53		ug/L		64277	0.003
Mn	55	0.017	ug/L	19.678	1019	0.000
Fe	57	-0.601	ug/L	123.319	3429	-0.000
Co	59	0.006	ug/L	4.104	76	0.000
Ni	60	0.003	ug/L	16.388	112	0.000
Cu	63		ug/L		179	0.000
Cu	65	0.008	ug/L	116.789	91	0.000
Zn	66	-0.279	ug/L	9.028	633	-0.001
Zn	67		ug/L		8973	-0.006
Zn	68		ug/L		1492	-0.002
> Ge	74		ug/L		440063	440063.428
As	75	-0.017	ug/L	372.102	-173	-0.000
Se	77		ug/L		3296	0.003
Se	82	0.112	ug/L	133.173	15	0.000
Kr	83		ug/L		83	-0.000
Sr	88	0.004	ug/L	30.569	201	0.000
Y	89		ug/L		66	-0.000
Mo	98	0.022	ug/L	21.570	155	0.000
Ag	107	0.004	ug/L	43.386	49	0.000
Cd	111	0.002	ug/L	86.774	23	0.000
Cd	114		ug/L		65	0.000
> In	115		ug/L		370642	370641.698
Sn	120	0.014	ug/L	29.001	328	0.000
Sb	121	0.068	ug/L	12.948	587	0.001
Sb	123		ug/L		471	0.001
Ba	135		ug/L		42	0.000
Ba	137	0.007	ug/L	48.221	63	0.000
Ho	165		ug/L		15	-0.000
> Lu	175		ug/L		819848	819848.207
Tl	205	0.450	ug/L	17.542	15244	0.016
Pb	208	0.006	ug/L	36.595	656	0.000
Bi	209		ug/L		672	-0.001
Th	232	0.019	ug/L	5.322	1497	0.001
U	238	0.009	ug/L	18.869	631	0.001

Sample ID: QC Std 9

Report Date/Time: Wednesday, March 03, 2010 23:03:22

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
>	Sc	45		91.9			
|	Ti	47					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
[	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74		91.9			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[	Sr	88					
|	Y	89					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		99.9			
|	Sn	120					
|	Sb	121					
|	Sb	123					
[	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		106.9			
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	Th	232					
|	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246322005

Sample Date/Time: Wednesday, March 03, 2010 23:12:54

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\246322005.198

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	22.651	ug/L	1.164	60433	0.031
|	Be	9	0.692	ug/L	6.253	408	0.000
|	B	11	5.413	ug/L	5.941	4042	0.002
|	Na	23	476.625	ug/L	1.520	2315086	1.195
|	Mg	24	3582.742	ug/L	5.460	12169762	6.325
|	Al	27	11263.817	ug/L	3.347	53042745	27.580
|	P	31	612.765	ug/L	2.321	151756	0.074
|	K	39	2394.239	ug/L	1.211	13051686	6.525
|	Ca	43	18741.307	ug/L	1.309	262916	0.137
>	Sc	45		ug/L		1923284	1923283.618
|	Ti	47	359.277	ug/L	1.049	279991	0.145
|	V	51	18.829	ug/L	4.959	141519	0.071
|	Cr	52	16.822	ug/L	3.205	97993	0.050
|	Cr	53		ug/L		70420	0.007
|	Mn	55	383.426	ug/L	2.024	3679050	1.913
|	Fe	57	18674.605	ug/L	2.749	3333898	1.732
|	Co	59	5.405	ug/L	1.767	39001	0.020
|	Ni	60	14.614	ug/L	0.468	23151	0.012
|	Cu	63		ug/L		382634	0.199
[	Cu	65	104.561	ug/L	0.341	191515	0.100
|	Zn	66	73.908	ug/L	0.429	89949	0.221
|	Zn	67		ug/L		22122	0.028
|	Zn	68		ug/L		66535	0.160
>	Ge	74		ug/L		403500	403499.869
|	As	75	2.603	ug/L	10.971	2904	0.008
|	Se	77		ug/L		3464	0.004
|	Se	82	0.316	ug/L	35.663	41	0.000
[	Kr	83		ug/L		121	0.000
|	Sr	88	50.244	ug/L	3.840	832306	2.367
|	Y	89		ug/L		327782	0.932
|	Mo	98	1.675	ug/L	2.312	7169	0.020
|	Ag	107	0.194	ug/L	0.223	1457	0.004
|	Cd	111	0.549	ug/L	3.324	1155	0.003
|	Cd	114		ug/L		984	0.003
>	In	115		ug/L		351688	351688.226
|	Sn	120	1.444	ug/L	2.311	12507	0.035
|	Sb	121	0.875	ug/L	2.721	6202	0.017
[	Sb	123		ug/L		4936	0.014
|	Ba	135		ug/L		409806	0.522
|	Ba	137	176.744	ug/L	2.082	715851	0.912
|	Ho	165		ug/L		33261	0.042
>	Lu	175		ug/L		784719	784718.928
|	Tl	205	0.266	ug/L	2.455	9333	0.010
|	Pb	208	43.361	ug/L	2.131	2179419	2.778
|	Bi	209		ug/L		9129	0.010
|	Th	232	9.536	ug/L	0.762	566136	0.721
[U	238	12.807	ug/L	1.477	844358	1.076

Sample ID: 246322005

Report Date/Time: Wednesday, March 03, 2010 23:15:37

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		90.6			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		84.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		94.8			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		102.4			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Ti 47 Upper, S, EEETi		47	Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246322006

Sample Date/Time: Wednesday, March 03, 2010 23:19:00

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\246322006.199

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	37.682	ug/L	1.684	99145	0.052
Be	9	2.478	ug/L	1.396	1427	0.001
B	11	6.813	ug/L	4.842	4926	0.002
Na	23	635.333	ug/L	7.387	3038094	1.592
Mg	24	4336.046	ug/L	3.502	14521381	7.655
Al	27	27884.267	ug/L	8.134	129481447	68.275
P	31	434.016	ug/L	2.489	108993	0.052
K	39	3711.454	ug/L	5.173	19684116	10.115
Ca	43	8217.735	ug/L	1.163	113828	0.060
> Sc	45		ug/L		1897014	1897013.839
Ti	47	608.734	ug/L	1.732	467583	0.246
V	51	29.967	ug/L	3.290	219102	0.113
Cr	52	17.596	ug/L	1.922	100972	0.052
Cr	53		ug/L		57859	0.001
Mn	55	597.356	ug/L	0.507	5653694	2.980
Fe	57	34933.351	ug/L	1.811	6148795	3.240
Co	59	10.197	ug/L	1.458	72540	0.038
Ni	60	15.171	ug/L	0.129	23699	0.012
Cu	63		ug/L		88810	0.047
Cu	65	24.862	ug/L	1.623	44969	0.024
Zn	66	99.097	ug/L	0.895	117997	0.296
Zn	67		ug/L		26184	0.040
Zn	68		ug/L		87369	0.216
> Ge	74		ug/L		395815	395814.991
As	75	4.874	ug/L	4.488	5455	0.014
Se	77		ug/L		2292	0.001
Se	82	-0.410	ug/L	13.528	-53	-0.000
Kr	83		ug/L		247	0.000
Sr	88	64.784	ug/L	1.599	1069517	3.052
Y	89		ug/L		842939	2.406
Mo	98	2.330	ug/L	1.005	9916	0.028
Ag	107	0.335	ug/L	4.072	2494	0.007
Cd	111	1.026	ug/L	7.574	2135	0.006
Cd	114		ug/L		645	0.002
> In	115		ug/L		350388	350388.351
Sn	120	3.040	ug/L	2.804	26037	0.074
Sb	121	2.272	ug/L	1.663	15921	0.045
Sb	123		ug/L		12494	0.035
Ba	135		ug/L		437082	0.557
Ba	137	187.629	ug/L	0.414	759848	0.969
Ho	165		ug/L		90576	0.115
> Lu	175		ug/L		784483	784483.355
Tl	205	0.471	ug/L	4.999	15192	0.017
Pb	208	25.499	ug/L	1.266	1281608	1.633
Bi	209		ug/L		13794	0.016
Th	232	22.707	ug/L	1.607	1347357	1.717
U	238	17.180	ug/L	0.181	1132527	1.444

Sample ID: 246322006

Report Date/Time: Wednesday, March 03, 2010 23:21:43

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		89.4			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		82.6			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		94.5			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		102.3			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte

Ti 47 Upper, S, EEETi

MassOut of Limits Message

47Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 246322006

Report Date/Time: Wednesday, March 03, 2010 23:21:43

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ICPMS#5 - Summary Report

Sample ID: 246322007

Sample Date/Time: Wednesday, March 03, 2010 23:25:07

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262[2]baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\246322007.200

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	21.676	ug/L	1.153	55783	0.030
Be	9	0.948	ug/L	1.228	537	0.000
B	11	5.763	ug/L	2.505	4129	0.002
Na	23	689.150	ug/L	4.987	3220672	1.727
Mg	24	6317.177	ug/L	2.817	20688327	11.153
Al	27	15543.372	ug/L	11.183	70545064	38.058
P	31	1141.226	ug/L	1.741	264029	0.137
K	39	3649.532	ug/L	4.942	18933502	9.946
Ca	43	19277.574	ug/L	2.627	260795	0.140
> Sc	45		ug/L		1855207	1855207.035
Ti	47	530.921	ug/L	1.367	398929	0.215
V	51	36.211	ug/L	2.037	257882	0.136
Cr	52	22.860	ug/L	0.738	127498	0.067
Cr	53		ug/L		62568	0.004
Mn	55	440.981	ug/L	1.554	4082061	2.200
Fe	57	27694.565	ug/L	3.733	4767264	2.568
Co	59	49.165	ug/L	1.484	341949	0.184
Ni	60	20.159	ug/L	0.572	30763	0.017
Cu	63		ug/L		270678	0.146
Cu	65	76.527	ug/L	0.149	135225	0.073
Zn	66	89.627	ug/L	1.602	105769	0.268
Zn	67		ug/L		24502	0.036
Zn	68		ug/L		78085	0.194
> Ge	74		ug/L		391966	391965.890
As	75	6.205	ug/L	2.601	6915	0.018
Se	77		ug/L		2608	0.002
Se	82	0.420	ug/L	38.950	53	0.000
Kr	83		ug/L		143	0.000
Sr	88	66.851	ug/L	2.235	1061248	3.149
Y	89		ug/L		418529	1.242
Mo	98	1.524	ug/L	3.344	6254	0.018
Ag	107	0.769	ug/L	0.824	5498	0.016
Cd	111	0.605	ug/L	2.994	1218	0.004
Cd	114		ug/L		1182	0.003
> In	115		ug/L		337058	337057.860
Sn	120	1.233	ug/L	3.908	10258	0.030
Sb	121	3.807	ug/L	3.451	25596	0.076
Sb	123		ug/L		19965	0.059
Ba	135		ug/L		526612	0.702
Ba	137	242.163	ug/L	1.958	937889	1.250
Ho	165		ug/L		42584	0.057
> Lu	175		ug/L		750298	750298.368
Tl	205	0.318	ug/L	3.241	10353	0.012
Pb	208	468.611	ug/L	1.258	22521776	30.018
Bi	209		ug/L		13395	0.016
Th	232	12.398	ug/L	2.111	703617	0.938
U	238	15.332	ug/L	0.952	966557	1.288

Sample ID: 246322007

Report Date/Time: Wednesday, March 03, 2010 23:27:50

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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						
B	11						
Na	23						
Mg	24						
Al	27						
P	31						
K	39						
Ca	43						
> Sc	45		87.4				
Ti	47						
V	51						
Cr	52						
Cr	53						
Mn	55						
Fe	57						
Co	59						
Ni	60						
Cu	63						
Cu	65						
Zn	66						
Zn	67						
Zn	68						
> Ge	74		81.8				
As	75						
Se	77						
Se	82						
Kr	83						
Sr	88						
Y	89						
Mo	98						
Ag	107						
Cd	111						
Cd	114						
> In	115		90.9				
Sn	120						
Sb	121						
Sb	123						
Ba	135						
Ba	137						
Ho	165						
> Lu	175		97.9				
Tl	205						
Pb	208						
Bi	209						
Th	232						
U	238						

QC Out Of Limits

Measurement Type Analyte

Ti 47 Upper, S, EEETi

MassOut of Limits Message

47Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 246322007

Report Date/Time: Wednesday, March 03, 2010 23:27:50

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ICPMS#5 - Summary Report

Sample ID: 246322008

Sample Date/Time: Wednesday, March 03, 2010 23:31:14

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\246322008.201

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	37.686	ug/L	1.484	95954	0.052
Be	9	2.127	ug/L	0.895	1186	0.001
B	11	4.651	ug/L	2.707	3365	0.002
Na	23	515.913	ug/L	4.965	2390551	1.293
Mg	24	3597.702	ug/L	3.886	11661231	6.352
Al	27	21494.721	ug/L	4.561	96619949	52.630
P	31	280.011	ug/L	3.301	71548	0.034
K	39	2834.030	ug/L	1.318	14658001	7.724
Ca	43	5020.511	ug/L	0.612	67387	0.037
> Sc	45		ug/L		1835718	1835717.774
Ti	47	609.405	ug/L	1.233	453007	0.247
V	51	25.365	ug/L	2.331	180247	0.095
Cr	52	16.133	ug/L	0.199	89815	0.047
Cr	53		ug/L		53776	-0.001
Mn	55	844.856	ug/L	0.983	7737465	4.214
Fe	57	40717.292	ug/L	0.781	6935246	3.776
Co	59	6.641	ug/L	0.792	45730	0.025
Ni	60	14.238	ug/L	1.676	21530	0.012
Cu	63		ug/L		70773	0.038
Cu	65	20.550	ug/L	1.124	35985	0.020
Zn	66	106.255	ug/L	0.541	122877	0.317
Zn	67		ug/L		26453	0.042
Zn	68		ug/L		90649	0.231
> Ge	74		ug/L		384612	384612.165
As	75	5.325	ug/L	1.635	5803	0.015
Se	77		ug/L		1930	0.001
Se	82	-0.321	ug/L	27.836	-41	-0.000
Kr	83		ug/L		220	0.000
Sr	88	36.346	ug/L	0.828	567996	1.712
Y	89		ug/L		827281	2.494
Mo	98	2.710	ug/L	1.312	10907	0.033
Ag	107	0.307	ug/L	3.852	2167	0.006
Cd	111	1.042	ug/L	6.869	2053	0.006
Cd	114		ug/L		555	0.002
> In	115		ug/L		331641	331640.665
Sn	120	3.623	ug/L	2.284	29342	0.088
Sb	121	0.606	ug/L	3.090	4074	0.012
Sb	123		ug/L		3171	0.009
Ba	135		ug/L		485336	0.653
Ba	137	220.899	ug/L	1.219	847785	1.140
Ho	165		ug/L		86830	0.117
> Lu	175		ug/L		743599	743598.737
Tl	205	0.463	ug/L	2.777	14193	0.017
Pb	208	31.080	ug/L	2.299	1480107	1.991
Bi	209		ug/L		8526	0.010
Th	232	23.502	ug/L	3.454	1321054	1.777
U	238	16.274	ug/L	2.961	1016356	1.367

Sample ID: 246322008

Report Date/Time: Wednesday, March 03, 2010 23:33:58

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		86.5			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		80.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		89.4			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		97.0			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte

Ti 47 Upper, S, EEE Ti

Mass Out of Limits Message

47 Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 246322008

Report Date/Time: Wednesday, March 03, 2010 23:33:58

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ICPMS#5 - Summary Report

Sample ID: 246322009

Sample Date/Time: Wednesday, March 03, 2010 23:37:22

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\246322009.202

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	19.222	ug/L	1.093	48144	0.027
Be	9	0.703	ug/L	3.815	389	0.000
B	11	7.525	ug/L	3.558	5143	0.003
Na	23	1999.344	ug/L	6.699	9068029	5.011
Mg	24	6714.312	ug/L	4.386	21395965	11.854
Al	27	12928.317	ug/L	0.617	57150432	31.655
P	31	1163.896	ug/L	1.225	261830	0.140
K	39	2984.238	ug/L	9.341	15162414	8.133
Ca	43	22657.778	ug/L	1.136	298293	0.165
> Sc	45		ug/L		1805181	1805181.050
Ti	47	659.349	ug/L	2.094	482011	0.267
V	51	32.038	ug/L	2.913	222594	0.121
Cr	52	22.295	ug/L	0.083	121064	0.066
Cr	53		ug/L		63246	0.005
Mn	55	558.997	ug/L	1.447	5034527	2.788
Fe	57	24869.045	ug/L	4.219	4167511	2.306
Co	59	9.421	ug/L	1.510	63790	0.035
Ni	60	23.579	ug/L	1.654	34992	0.019
Cu	63		ug/L		477860	0.265
Cu	65	139.882	ug/L	1.265	240479	0.133
Zn	66	141.816	ug/L	1.310	163701	0.423
Zn	67		ug/L		33349	0.060
Zn	68		ug/L		120020	0.307
> Ge	74		ug/L		384597	384597.362
As	75	3.666	ug/L	4.004	3954	0.011
Se	77		ug/L		2811	0.003
Se	82	0.364	ug/L	8.796	45	0.000
Kr	83		ug/L		141	0.000
Sr	88	158.628	ug/L	0.875	2430205	7.473
Y	89		ug/L		367019	1.128
Mo	98	1.325	ug/L	3.071	5252	0.016
Ag	107	0.170	ug/L	3.953	1179	0.004
Cd	111	0.559	ug/L	5.203	1087	0.003
Cd	114		ug/L		957	0.003
> In	115		ug/L		325149	325148.793
Sn	120	3.027	ug/L	2.000	24053	0.073
Sb	121	0.215	ug/L	6.041	1463	0.004
Sb	123		ug/L		1170	0.003
Ba	135		ug/L		664532	0.916
Ba	137	304.572	ug/L	1.664	1140492	1.572
Ho	165		ug/L		36150	0.050
> Lu	175		ug/L		725480	725479.763
Tl	205	0.233	ug/L	3.127	7749	0.008
Pb	208	127.802	ug/L	1.591	5938677	8.187
Bi	209		ug/L		10292	0.013
Th	232	12.153	ug/L	0.474	667024	0.919
U	238	5.321	ug/L	1.511	324323	0.447

Sample ID: 246322009

Report Date/Time: Wednesday, March 03, 2010 23:40:06

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		85.1			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		80.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		87.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		94.6			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte
Ti 47 Upper, S, EEETi

Mass Out of Limits Message
47Sample is out of limits (over linear range)

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Wednesday, March 03, 2010 23:43:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 8.203

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	57.669	ug/L	1.186	138242	0.080
Be	9	51.550	ug/L	1.859	26947	0.016
B	11	95.806	ug/L	1.377	58872	0.034
Na	23	4601.395	ug/L	7.547	19961835	11.533
Mg	24	4570.739	ug/L	5.670	13953656	8.070
Al	27	4370.192	ug/L	11.483	18515289	10.700
P	31	4629.780	ug/L	1.212	969717	0.556
K	39	4642.740	ug/L	6.649	22311267	12.653
Ca	43	4706.432	ug/L	2.318	59482	0.034
> Sc	45		ug/L		1728416	1728415.788
Ti	47	44.598	ug/L	2.126	31620	0.018
V	51	47.403	ug/L	1.315	313103	0.178
Cr	52	51.441	ug/L	0.796	264211	0.151
Cr	53		ug/L		129033	0.045
Mn	55	52.998	ug/L	0.972	457712	0.264
Fe	57	5421.826	ug/L	1.632	872138	0.503
Co	59	50.843	ug/L	2.760	329447	0.191
Ni	60	51.520	ug/L	1.135	73103	0.042
Cu	63		ug/L		167965	0.097
Cu	65	50.405	ug/L	0.355	83001	0.048
Zn	66	51.268	ug/L	1.684	58863	0.153
Zn	67		ug/L		22962	0.034
Zn	68		ug/L		43361	0.109
> Ge	74		ug/L		379030	379030.369
As	75	50.216	ug/L	1.970	55019	0.146
Se	77		ug/L		10228	0.023
Se	82	52.328	ug/L	2.108	6444	0.017
Kr	83		ug/L		79	-0.000
Sr	88	52.569	ug/L	1.109	788856	2.477
Y	89		ug/L		113	0.000
Mo	98	47.586	ug/L	0.607	183148	0.575
Ag	107	49.592	ug/L	0.909	334142	1.049
Cd	111	51.154	ug/L	3.296	96023	0.302
Cd	114		ug/L		226606	0.712
> In	115		ug/L		318493	318493.376
Sn	120	51.187	ug/L	0.989	395807	1.242
Sb	121	52.030	ug/L	1.587	329817	1.035
Sb	123		ug/L		260203	0.817
Ba	135		ug/L		98118	0.138
Ba	137	47.475	ug/L	5.146	173991	0.245
Ho	165		ug/L		54	0.000
> Lu	175		ug/L		710205	710205.389
Tl	205	51.513	ug/L	3.052	1336879	1.881
Pb	208	53.833	ug/L	0.503	2449274	3.448
Bi	209		ug/L		965	-0.000
Th	232	52.298	ug/L	3.540	2808299	3.955
U	238	52.703	ug/L	3.009	3144305	4.429

Sample ID: QC Std 8

Report Date/Time: Wednesday, March 03, 2010 23:46:13

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7	115.339				
Be	9	103.099				
B	11	95.806				
Na	23	92.028				
Mg	24	91.415				
Al	27	86.538				
P	31	92.596				
K	39	92.855				
Ca	43	94.129				
> Sc	45		81.4			
Ti	47	89.195				
V	51	94.805				
Cr	52	102.881				
Cr	53					
Mn	55	105.996				
Fe	57	108.437				
Co	59	101.685				
Ni	60	103.040				
Cu	63					
Cu	65	100.809				
Zn	66	102.536				
Zn	67					
Zn	68					
> Ge	74		79.1			
As	75	100.431				
Se	77					
Se	82	104.657				
Kr	83					
Sr	88	105.139				
Y	89					
Mo	98	95.172				
Ag	107	99.185				
Cd	111	102.308				
Cd	114					
> In	115		85.9			
Sn	120	102.374				
Sb	121	104.060				
Sb	123					
Ba	135					
Ba	137	94.949				
Ho	165					
> Lu	175		92.6			
Tl	205	103.026				
Pb	208	107.667				
Bi	209					
Th	232	104.596				
U	238	105.407				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Li	7	7CCV is out of limits (+/- 10%)
QC Std 8	Al	27	27CCV is out of limits (+/- 10%)
QC Std 8	Ti	47	47CCV is out of limits (+/- 10%)
Ge 74 Int Std for QC	Ge	74	

Sample ID: QC Std 8

Report Date/Time: Wednesday, March 03, 2010 23:46:13

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QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Wednesday, March 03, 2010 23:49:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 9.204

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.041	ug/L	5.631	133	0.000
Be	9	0.009	ug/L	38.558	10	0.000
B	11	2.346	ug/L	17.355	1872	0.001
Na	23	-0.315	ug/L	92.759	15342	-0.001
Mg	24	0.249	ug/L	190.430	1667	0.000
Al	27	0.217	ug/L	322.186	5335	0.001
P	31	-14.262	ug/L	16.696	6732	-0.002
K	39	-15.244	ug/L	112.069	403429	-0.042
Ca	43	-4.823	ug/L	29.470	163	-0.000
> Sc	45		ug/L		1841657	1841657.191
Ti	47	-0.265	ug/L	4.531	264	-0.000
V	51	-0.601	ug/L	119.843	783	-0.002
Cr	52	0.371	ug/L	9.688	4654	0.001
Cr	53		ug/L		58065	0.002
Mn	55	0.025	ug/L	16.485	1035	0.000
Fe	57	0.322	ug/L	218.089	3396	0.000
Co	59	0.006	ug/L	11.145	78	0.000
Ni	60	0.004	ug/L	360.670	107	0.000
Cu	63		ug/L		152	0.000
Cu	65	0.012	ug/L	2.958	94	0.000
Zn	66	-0.284	ug/L	4.525	572	-0.001
Zn	67		ug/L		7867	-0.007
Zn	68		ug/L		1295	-0.002
> Ge	74		ug/L		402641	402641.332
As	75	-0.226	ug/L	45.348	-402	-0.001
Se	77		ug/L		3023	0.003
Se	82	0.095	ug/L	143.614	12	0.000
Kr	83		ug/L		78	-0.000
Sr	88	0.007	ug/L	11.236	225	0.000
Y	89		ug/L		58	-0.000
Mo	98	0.021	ug/L	10.731	137	0.000
Ag	107	0.006	ug/L	26.513	58	0.000
Cd	111	0.006	ug/L	70.102	29	0.000
Cd	114		ug/L		55	0.000
> In	115		ug/L		334974	334974.274
Sn	120	0.017	ug/L	33.860	315	0.000
Sb	121	0.070	ug/L	14.989	544	0.001
Sb	123		ug/L		422	0.001
Ba	135		ug/L		42	0.000
Ba	137	0.009	ug/L	10.478	68	0.000
Ho	165		ug/L		10	-0.000
> Lu	175		ug/L		766772	766771.565
Tl	205	0.459	ug/L	19.931	14534	0.017
Pb	208	0.011	ug/L	15.161	864	0.001
Bi	209		ug/L		670	-0.001
Th	232	0.021	ug/L	6.872	1486	0.002
U	238	0.010	ug/L	8.692	706	0.001

Sample ID: QC Std 9

Report Date/Time: Wednesday, March 03, 2010 23:52:22

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		86.8			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		84.0			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		90.3			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		100.0			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Thursday, March 04, 2010 12:13:51

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.644

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	4917.0	4917.046	76.152	1.5
Mg	24.0	49556.4	49556.410	421.182	0.8
Co	58.9	95296.0	95295.993	345.969	0.4
Rh	102.9	182253.3	182253.293	1838.164	1.0
In	114.9	271126.6	271126.619	2475.836	0.9
Pb	208.0	255677.7	255677.709	715.154	0.3
[> Ba	137.9	248095.1	248095.056	1759.513	0.7
[Ba++	69.0	3224.4	0.013	0.000	1.4
[> Ce	139.9	304302.3	304302.268	1006.509	0.3
[CeO	155.9	7653.1	0.025	0.000	1.9
Bkgd	220.0	21.3	21.300	2.225	10.4

Current Optimization File Data

Current Value	Description
0.87	Nebulizer Gas Flow
6.00	Lens Voltage
1450.00	ICP RF Power
-1750.00	Analog Stage Voltage
1250.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	13	5.5	5457.7
Co	59	13	6.0	98878.3
In	115	13	6.8	264010.6

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	588	2050	0.665
Be	9.0	9.0	2056	2075	0.621
Mg	24.0	24.0	5695	2080	0.628
Mg	25.0	25.0	5923	2080	0.592
Mg	26.0	26.0	6178	2080	0.633
Co	58.9	58.9	14189	2110	0.620
Rh	102.9	102.9	24872	2160	0.621
In	114.9	114.9	27799	2180	0.636
Ce	139.9	139.9	33870	2200	0.640
Pb	206.0	206.0	49948	2295	0.605
Pb	207.0	207.0	50159	2240	0.631
Pb	208.0	208.0	50451	2265	0.694
U	238.1	238.0	57724	2275	0.708

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, March 04, 2010 23:40:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\Blank.262

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7		ug/L		77	
[>	Sc	45		ug/L		1498117	
[>	Ge	74		ug/L		416863	
|	As	75		ug/L		-67	
|	Se	77		ug/L		6623	
|	Se	82		ug/L		-6	
|	Kr	83		ug/L		130	
[>	Lu	175		ug/L		510905	
|	Tl	205		ug/L		2228	
	U	238		ug/L		705	

Sample ID: Blank

Report Date/Time: Thursday, March 04, 2010 23:41:09

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Simple Linear	
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
[>	Sc	45					
[>	Ge	74					
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175					
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Thursday, March 04, 2010 23:44:07

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\Standard 1.263

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	10.000	ug/L	5.356	19985	0.014
[>	Sc	45		ug/L		1473907	1473907.103
[>	Ge	74		ug/L		408393	408393.439
|	As	75	10.000	ug/L	6.666	11696	0.029
|	Se	77		ug/L		7605	0.003
|	Se	82	10.000	ug/L	6.300	1250	0.003
[	Kr	83		ug/L		99	-0.000
[>	Lu	175		ug/L		496918	496917.737
)	Tl	205	10.000	ug/L	6.759	211742	0.423
[	U	238	10.000	ug/L	7.789	484484	0.976

Sample ID: Standard 1

Report Date/Time: Thursday, March 04, 2010 23:44:44

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Li	7						
[>	Sc	45						
[>	Ge	74						
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175						
|	Tl	205						
[	U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, March 04, 2010 23:47:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\Standard 2.264

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	99.954	ug/L	2.402	197958	0.129
[> Sc	45		ug/L		1531379	1531378.727
[> Ge	74		ug/L		423522	423521.576
| As	75	99.952	ug/L	1.442	116463	0.275
| Se	77		ug/L		16070	0.022
| Se	82	99.928	ug/L	2.049	12155	0.029
[Kr	83		ug/L		128	-0.000
[> Lu	175		ug/L		499673	499673.155
| Tl	205	99.804	ug/L	2.740	1763975	3.527
[U	238	99.769	ug/L	1.883	3952897	7.911

Sample ID: Standard 2

Report Date/Time: Thursday, March 04, 2010 23:48:19

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7					
[>	Sc	45					
[>	Ge	74					
[	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175					
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, March 04, 2010 23:51:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 1.265

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	52.129	ug/L	2.493	103151	0.067
[> Sc	45		ug/L		1529374	1529373.805
[> Ge	74		ug/L		422642	422642.275
| As	75	51.014	ug/L	1.491	59294	0.140
| Se	77		ug/L		12011	0.013
| Se	82	52.478	ug/L	3.294	6366	0.015
[Kr	83		ug/L		139	0.000
[> Lu	175		ug/L		496987	496987.354
| Tl	205	54.530	ug/L	2.458	959628	1.927
[U	238	54.008	ug/L	1.296	2128723	4.282

Sample ID: QC Std 1

Report Date/Time: Thursday, March 04, 2010 23:51:54

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7	104.258				
[>	Sc	45		102.1			
[>	Ge	74		101.4			
|	As	75	102.028				
|	Se	77					
|	Se	82	104.957				
[	Kr	83					
[>	Lu	175		97.3			
|	Tl	205	109.059				
[	U	238	108.016				

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 2

Sample Date/Time: Thursday, March 04, 2010 23:54:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anl 950262.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 2.266

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.013	ug/L	50.227	101	0.000
[>	Sc	45		ug/L		1491714	1491713.989
[>	Ge	74		ug/L		415168	415167.733
|	As	75	-0.144	ug/L	67.663	-231	-0.000
|	Se	77		ug/L		6129	-0.001
|	Se	82	0.068	ug/L	142.285	2	0.000
[	Kr	83		ug/L		120	-0.000
[>	Lu	175		ug/L		503485	503484.969
|	Tl	205	0.146	ug/L	1.658	4790	0.005
[U	238	0.002	ug/L	23.046	784	0.000

Sample ID: QC Std 2

Report Date/Time: Thursday, March 04, 2010 23:55:34

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Li	7						
[>	Sc	45			99.6			
[>	Ge	74			99.6			
|	As	75						
|	Se	77						
|	Se	82						
L	Kr	83						
[>	Lu	175			98.5			
|	Tl	205						
L	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Thursday, March 04, 2010 23:58:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 3.267

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	11.774	ug/L	1.046	22628	0.015
[>	Sc	45		ug/L		1481476	1481475.772
[>	Ge	74		ug/L		409509	409508.549
|	As	75	5.990	ug/L	3.239	6688	0.016
|	Se	77		ug/L		6817	0.001
|	Se	82	6.063	ug/L	5.559	707	0.002
[	Kr	83		ug/L		120	-0.000
[>	Lu	175		ug/L		503438	503438.239
|	Tl	205	1.322	ug/L	0.690	25714	0.047
[U	238	0.298	ug/L	2.257	12591	0.024

Sample ID: QC Std 3

Report Date/Time: Thursday, March 04, 2010 23:59:10

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7	117.742					
[>	Sc	45		98.9				
[>	Ge	74		98.2				
|	As	75	119.800					
|	Se	77						
|	Se	82	121.252					
[	Kr	83						
[>	Lu	175		98.5				
|	Tl	205	132.206					
[	U	238	149.032					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Tl	205	CRDL is out of limits
QC Std 3	U	238	CRDL is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, March 05, 2010 00:02:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\NanI 950262.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 4.268

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.059	ug/L	7.410	184	0.000
[>	Sc	45		ug/L		1452267	1452266.993
[>	Ge	74		ug/L		395082	395081.774
|	As	75	0.293	ug/L	70.213	257	0.001
|	Se	77		ug/L		8402	0.005
|	Se	82	-0.848	ug/L	38.313	-102	-0.000
[	Kr	83		ug/L		304	0.000
[>	Lu	175		ug/L		447840	447840.112
|	Tl	205	0.008	ug/L	62.016	2072	0.000
[U	238	-0.011	ug/L	3.092	216	-0.001

Sample ID: QC Std 4

Report Date/Time: Friday, March 05, 2010 00:02:47

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
[>	Sc	45			96.9		
[>	Ge	74			94.8		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[>	Lu	175			87.7		
|	Tl	205					
|	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, March 05, 2010 00:05:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 5.269

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	20.057	ug/L	1.786	37476	0.026
[>	Sc	45		ug/L		1442288	1442287.851
[>	Ge	74		ug/L		394487	394487.116
|	As	75	21.254	ug/L	1.255	23024	0.059
|	Se	77		ug/L		10476	0.011
|	Se	82	20.213	ug/L	1.008	2286	0.006
[	Kr	83		ug/L		315	0.000
[>	Lu	175		ug/L		443543	443542.729
|	Tl	205	22.078	ug/L	0.398	347962	0.780
[U	238	24.990	ug/L	1.564	879424	1.981

Sample ID: QC Std 5

Report Date/Time: Friday, March 05, 2010 00:06:24

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7	100.285				
[>	Sc	45		96.3			
[>	Ge	74		94.6			
|	As	75	106.269				
|	Se	77					
|	Se	82	101.064				
[	Kr	83					
[>	Lu	175		86.8			
|	Tl	205	110.388				
[	U	238	124.948				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	U	238	ICSAB is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, March 05, 2010 00:09:24

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 6.270

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	51.908	ug/L	3.473	101052	0.067
[>	Sc	45		ug/L		1505067	1505067.393
[>	Ge	74		ug/L		421311	421311.187
|	As	75	51.690	ug/L	3.081	59879	0.142
|	Se	77		ug/L		12540	0.014
|	Se	82	51.982	ug/L	1.880	6287	0.015
{	Kr	83		ug/L		111	-0.000
[>	Lu	175		ug/L		481804	481803.921
|	Tl	205	54.629	ug/L	0.765	932150	1.930
[U	238	54.650	ug/L	0.559	2088376	4.333

Sample ID: QC Std 6

Report Date/Time: Friday, March 05, 2010 00:10:02

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7	103.816				
[>	Sc	45		100.5			
[>	Ge	74		101.1			
|	As	75	103.379				
|	Se	77					
|	Se	82	103.964				
|	Kr	83					
[>	Lu	175		94.3			
|	Tl	205	109.258				
|	U	238	109.300				

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, March 05, 2010 00:13:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\VanI 950262.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 7.271

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.000		ug/L	158132.049	80	0.000
[>	Sc	45			ug/L		1555641	1555641.031
[>	Ge	74			ug/L		436913	436912.593
|	As	75	-0.254		ug/L	148.104	-370	-0.001
|	Se	77			ug/L		7556	0.001
|	Se	82	0.064		ug/L	150.864	1	0.000
[	Kr	83			ug/L		118	-0.000
[>	Lu	175			ug/L		507390	507389.850
|	Tl	205	0.247		ug/L	5.251	6638	0.009
[U	238	0.002		ug/L	104.450	769	0.000

Sample ID: QC Std 7

Report Date/Time: Friday, March 05, 2010 00:13:42

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
[>	Sc	45			103.8		
[>	Ge	74			104.8		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[>	Lu	175			99.3		
|	Tl	205					
|	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036266

Sample Date/Time: Friday, March 05, 2010 00:16:41

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\1202036266.272

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	-0.011		ug/L	43.657	55	-0.000
[>	Sc	45			ug/L		1504085	1504085.178
[>	Ge	74			ug/L		415128	415127.678
|	As	75	0.186		ug/L	90.856	146	0.001
|	Se	77			ug/L		5377	-0.003
|	Se	82	0.630		ug/L	31.966	69	0.000
[	Kr	83			ug/L		106	-0.000
[>	Lu	175			ug/L		496268	496268.133
|	Tl	205	0.143		ug/L	7.421	4669	0.005
[U	238	0.000		ug/L	308.678	692	0.000

Sample ID: 1202036266

Report Date/Time: Friday, March 05, 2010 00:17:20

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
[>	Sc	45		100.4				
[>	Ge	74		99.6				
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175		97.1				
|	Tl	205						
[	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036271

Sample Date/Time: Friday, March 05, 2010 00:20:19

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 950262|40|baj

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\1202036271.273

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	2.372	ug/L	1.274	4836	0.003
[> Sc	45		ug/L		1550443	1550442.863
[> Ge	74		ug/L		436734	436734.473
| As	75	26.744	ug/L	3.862	32101	0.074
| Se	77		ug/L		12690	0.013
| Se	82	74.187	ug/L	0.946	9306	0.021
| Kr	83		ug/L		126	-0.000
[> Lu	175		ug/L		513549	513548.853
| Tl	205	32.041	ug/L	1.601	583637	1.132
[U	238	0.567	ug/L	1.457	23805	0.045

Sample ID: 1202036271

Report Date/Time: Friday, March 05, 2010 00:20:58

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
[>	Sc	45			103.5			
[>	Ge	74			104.8			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			100.5			
|	Tl	205						
[	U	238						

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, March 05, 2010 00:34:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 8.277

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	51.398	ug/L	0.645	94963	0.066
[>	Sc	45		ug/L		1427766	1427766.277
[>	Ge	74		ug/L		402801	402800.943
|	As	75	49.772	ug/L	1.065	55132	0.137
|	Se	77		ug/L		10539	0.010
|	Se	82	51.233	ug/L	0.734	5925	0.015
[	Kr	83		ug/L		118	-0.000
[>	Lu	175		ug/L		506069	506068.687
|	Tl	205	51.268	ug/L	0.748	919007	1.812
[U	238	51.482	ug/L	1.825	2066434	4.082

Sample ID: QC Std 8

Report Date/Time: Friday, March 05, 2010 00:35:34

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7	102.797					
[>	Sc	45		95.3				
[>	Ge	74		96.6				
|	As	75	99.543					
|	Se	77						
|	Se	82	102.466					
|	Kr	83						
[>	Lu	175		99.1				
|	Tl	205	102.536					
|	U	238	102.964					

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, March 05, 2010 00:38:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 9.278

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.015	ug/L	51.614	99	0.000
[>	Sc	45		ug/L		1405839	1405838.570
[>	Ge	74		ug/L		397966	397965.616
|	As	75	0.115	ug/L	152.392	60	0.000
|	Se	77		ug/L		6066	-0.001
|	Se	82	0.400	ug/L	17.337	40	0.000
[	Kr	83		ug/L		118	-0.000
[>	Lu	175		ug/L		500829	500828.772
|	Tl	205	0.234	ug/L	3.688	6323	0.008
[U	238	0.002	ug/L	42.985	774	0.000

Sample ID: QC Std 9

Report Date/Time: Friday, March 05, 2010 00:39:14

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
[>	Sc	45			93.8			
[>	Ge	74			95.5			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			98.0			
|	Tl	205						
[	U	238						

QC Out Of Limits

Measurement Type: Analyte Mass: Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246322001

Sample Date/Time: Friday, March 05, 2010 00:42:12

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\246322001.279

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	23.208	ug/L	1.402	41031	0.030
[>	Sc	45		ug/L		1365063	1365063.299
[>	Ge	74		ug/L		378714	378714.453
|	As	75	5.889	ug/L	0.495	6080	0.016
|	Se	77		ug/L		4311	-0.005
|	Se	82	1.775	ug/L	16.210	187	0.001
[	Kr	83		ug/L		168	0.000
[>	Lu	175		ug/L		498569	498569.415
|	Tl	205	0.250	ug/L	3.474	6576	0.009
[U	238	6.101	ug/L	1.413	241861	0.484

Sample ID: 246322001

Report Date/Time: Friday, March 05, 2010 00:42:51

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
[>	Sc	45			91.1		
[>	Ge	74			90.8		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			97.6		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036267

Sample Date/Time: Friday, March 05, 2010 00:45:50

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 950262|2|ba|

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\1202036267.280

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	19.335	ug/L	1.817	35050	0.025
Sc	45		ug/L		1399131	1399131.015
Ge	74		ug/L		388131	388131.286
As	75	5.075	ug/L	8.902	5360	0.014
Se	77		ug/L		5092	-0.003
Se	82	1.799	ug/L	10.553	195	0.001
Kr	83		ug/L		140	0.000
Lu	175		ug/L		490379	490379.497
Tl	205	0.164	ug/L	5.367	4980	0.006
U	238	6.107	ug/L	0.705	238120	0.484

Sample ID: 1202036267

Report Date/Time: Friday, March 05, 2010 00:46:28

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
[>	Sc	45			93.4			
[>	Ge	74			93.1			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			96.0			
|	Tl	205						
[	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036269

Sample Date/Time: Friday, March 05, 2010 00:49:27

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\Vanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\1202036269.281

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	60.653	ug/L	1.068	107115	0.078
[>	Sc	45		ug/L		1364948	1364947.703
[>	Ge	74		ug/L		381998	381997.516
|	As	75	44.130	ug/L	1.225	46356	0.122
|	Se	77		ug/L		5031	-0.003
|	Se	82	11.255	ug/L	2.807	1230	0.003
[	Kr	83		ug/L		133	0.000
[>	Lu	175		ug/L		490585	490585.043
|	Tl	205	56.226	ug/L	3.015	976806	1.987
[U	238	34.919	ug/L	1.580	1358886	2.769

Sample ID: 1202036269

Report Date/Time: Friday, March 05, 2010 00:50:06

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
[>	Sc	45			91.1			
[>	Ge	74			91.6			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			96.0			
|	Tl	205						
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036270

Sample Date/Time: Friday, March 05, 2010 00:53:06

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\ani 950262.mth

Dataset File: c:\elandata\Dataset\100304\1202036270.282

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	48.357	ug/L	2.004	90513	0.063
[> Sc	45		ug/L		1446658	1446657.583
[> Ge	74		ug/L		399060	399059.748
| As	75	45.887	ug/L	3.195	50338	0.126
| Se	77		ug/L		7710	0.003
| Se	82	10.774	ug/L	2.514	1230	0.003
[Kr	83		ug/L		171	0.000
[> Lu	175		ug/L		487049	487048.926
| Tl	205	54.472	ug/L	3.050	939396	1.925
[U	238	34.989	ug/L	2.733	1351534	2.774

Sample ID: 1202036270

Report Date/Time: Friday, March 05, 2010 00:53:45

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
[>	Sc	45			96.6		
[>	Ge	74			95.7		
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
[>	Lu	175			95.3		
|	Tl	205					
|	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036268

Sample Date/Time: Friday, March 05, 2010 00:56:45

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 950262|10|baj

Method File: c:\elandata\Method\VanI 950262.mth

Dataset File: c:\elandata\Dataset\100304\1202036268.283

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	4.021	ug/L	2.014	8056	0.005
[>	Sc	45		ug/L		1534231	1534230.821
[>	Ge	74		ug/L		434819	434818.709
|	As	75	1.270	ug/L	34.769	1454	0.003
|	Se	77		ug/L		7085	0.000
|	Se	82	0.782	ug/L	5.721	91	0.000
[	Kr	83		ug/L		123	-0.000
[>	Lu	175		ug/L		516351	516351.039
|	Tl	205	0.102	ug/L	2.090	4115	0.004
[U	238	1.188	ug/L	1.988	49332	0.094

Sample ID: 1202036268

Report Date/Time: Friday, March 05, 2010 00:57:24

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
[>	Sc	45			102.4		
[>	Ge	74			104.3		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			101.1		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246322002

Sample Date/Time: Friday, March 05, 2010 01:00:25

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\246322002.284

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	30.041	ug/L	1.866	58347	0.039
[>	Sc	45		ug/L		1500490	1500489.722
[>	Ge	74		ug/L		401238	401237.933
|	As	75	5.955	ug/L	4.343	6512	0.016
|	Se	77		ug/L		5226	-0.003
|	Se	82	0.972	ug/L	37.063	106	0.000
[	Kr	83		ug/L		204	0.000
[>	Lu	175		ug/L		510794	510793.781
|	Tl	205	0.335	ug/L	4.488	8278	0.012
[U	238	38.442	ug/L	2.703	1557221	3.048

Sample ID: 246322002

Report Date/Time: Friday, March 05, 2010 01:01:04

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7					
[>	Sc	45			100.2		
[>	Ge	74			96.3		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			100.0		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, March 05, 2010 01:04:03

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 8.285

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	47.747	ug/L	2.336	92190	0.062
[>	Sc	45		ug/L		1492260	1492260.269
[>	Ge	74		ug/L		426081	426081.039
|	As	75	50.819	ug/L	2.827	59536	0.140
|	Se	77		ug/L		12820	0.014
|	Se	82	50.756	ug/L	1.536	6209	0.015
[	Kr	83		ug/L		120	-0.000
[>	Lu	175		ug/L		496682	496682.401
|	Tl	205	52.597	ug/L	2.341	925282	1.859
[U	238	52.183	ug/L	1.267	2055700	4.138

Sample ID: QC Std 8

Report Date/Time: Friday, March 05, 2010 01:04:42

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution %	Duplicate Rel. % Difference
[	Li	7	95.495				
[>	Sc	45		99.6			
[>	Ge	74		102.2			
|	As	75	101.637				
|	Se	77					
|	Se	82	101.513				
[	Kr	83					
[>	Lu	175		97.2			
|	Tl	205	105.194				
[	U	238	104.365				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Friday, March 05, 2010 01:07:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 9.286

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	-0.006	ug/L	94.191	66	-0.000
[>	Sc	45		ug/L		1502420	1502420.185
[>	Ge	74		ug/L		426444	426444.001
|	As	75	0.219	ug/L	188.662	192	0.001
|	Se	77		ug/L		7876	0.003
|	Se	82	0.453	ug/L	28.796	49	0.000
[	Kr	83		ug/L		112	-0.000
[>	Lu	175		ug/L		506474	506474.092
|	Tl	205	0.211	ug/L	2.600	5981	0.007
[	U	238	0.003	ug/L	28.013	809	0.000

Sample ID: QC Std 9

Report Date/Time: Friday, March 05, 2010 01:08:22

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Li	7						
[>	Sc	45			100.3			
[>	Ge	74			102.3			
|	As	75						
|	Se	77						
|	Se	82						
|	Kr	83						
[>	Lu	175			99.1			
|	Tl	205						
|	U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246322003

Sample Date/Time: Friday, March 05, 2010 01:11:23

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262[2]ba]

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\246322003.287

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Li	7	26.878	ug/L	0.890	50887	0.035
[> Sc	45		ug/L		1462149	1462149.497
[> Ge	74		ug/L		401033	401033.100
| As	75	7.202	ug/L	4.039	7893	0.020
| Se	77		ug/L		5555	-0.002
| Se	82	0.709	ug/L	24.886	76	0.000
[Kr	83		ug/L		173	0.000
[> Lu	175		ug/L		490262	490261.821
| Tl	205	0.252	ug/L	5.761	6502	0.009
[U	238	11.379	ug/L	2.391	442962	0.902

Sample ID: 246322003

Report Date/Time: Friday, March 05, 2010 01:12:03

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
[>	Sc	45			97.6			
[>	Ge	74			96.2			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			96.0			
|	Tl	205						
[	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246322005

Sample Date/Time: Friday, March 05, 2010 01:15:02

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|ba|

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\246322005.288

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	21.965	ug/L	2.287	39924	0.028
Sc	45		ug/L		1403064	1403063.909
Ge	74		ug/L		388604	388603.689
As	75	3.126	ug/L	20.387	3281	0.009
Se	77		ug/L		5513	-0.002
Se	82	0.561	ug/L	36.213	57	0.000
Kr	83		ug/L		158	0.000
Lu	175		ug/L		487133	487132.973
Tl	205	0.142	ug/L	2.099	4575	0.005
U	238	14.621	ug/L	3.171	565234	1.159

Sample ID: 246322005

Report Date/Time: Friday, March 05, 2010 01:15:40

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7					
[>	Sc	45			93.7		
[>	Ge	74			93.2		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			95.3		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246322006

Sample Date/Time: Friday, March 05, 2010 01:18:39

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\246322006.289

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	38.333	ug/L	1.603	68229	0.050
[>	Sc	45		ug/L		1375265	1375264.531
[>	Ge	74		ug/L		368340	368339.728
|	As	75	5.493	ug/L	3.226	5513	0.015
|	Se	77		ug/L		4070	-0.005
|	Se	82	0.465	ug/L	23.092	44	0.000
[	Kr	83		ug/L		205	0.000
[>	Lu	175		ug/L		504698	504697.963
|	Tl	205	0.352	ug/L	2.471	8481	0.012
[	U	238	19.080	ug/L	2.141	764207	1.513

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dif	Duplicate Rel. % Difference
[	Li	7					
[>	Sc	45			91.8		
[>	Ge	74			88.4		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			98.8		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246322007

Sample Date/Time: Friday, March 05, 2010 01:22:18

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\246322007.290

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	22.574	ug/L	4.547	39403	0.029
[>	Sc	45		ug/L		1348117	1348116.529
[>	Ge	74		ug/L		375308	375308.442
|	As	75	7.180	ug/L	2.609	7359	0.020
|	Se	77		ug/L		4281	-0.004
|	Se	82	0.603	ug/L	3.128	59	0.000
[	Kr	83		ug/L		160	0.000
[>	Lu	175		ug/L		489315	489314.924
|	Tl	205	0.227	ug/L	2.814	6064	0.008
[U	238	17.200	ug/L	0.913	668045	1.364

Sample ID: 246322007

Report Date/Time: Friday, March 05, 2010 01:22:57

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7					
[>	Sc	45		90.0			
[>	Ge	74		90.0			
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175		95.8			
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246322008

Sample Date/Time: Friday, March 05, 2010 01:25:57

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\246322008.291

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	38.781	ug/L	3.992	68399	0.050
[>	Sc	45		ug/L		1363551	1363551.481
[>	Ge	74		ug/L		372450	372449.674
|	As	75	6.008	ug/L	4.024	6100	0.017
|	Se	77		ug/L		3709	-0.006
|	Se	82	0.472	ug/L	3.736	45	0.000
[	Kr	83		ug/L		183	0.000
[>	Lu	175		ug/L		504104	504103.617
|	Tl	205	0.369	ug/L	2.982	8774	0.013
[	U	238	18.103	ug/L	1.601	724169	1.435

Sample ID: 246322008

Report Date/Time: Friday, March 05, 2010 01:26:36

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
[>	Sc	45			91.0			
[>	Ge	74			89.3			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			98.7			
|	Tl	205						
[	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246322009

Sample Date/Time: Friday, March 05, 2010 01:29:36

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\246322009.292

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	19.350	ug/L	2.216	34523	0.025
[>	Sc	45		ug/L		1377084	1377083.587
[>	Ge	74		ug/L		384021	384021.365
|	As	75	3.969	ug/L	5.576	4134	0.011
|	Se	77		ug/L		4405	-0.004
|	Se	82	0.623	ug/L	12.705	63	0.000
[	Kr	83		ug/L		141	0.000
[>	Lu	175		ug/L		493352	493352.485
|	Tl	205	0.142	ug/L	2.740	4631	0.005
[	U	238	5.678	ug/L	1.085	222750	0.450

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[	Li	7					
[>	Sc	45			91.9		
[>	Ge	74			92.1		
|	As	75					
|	Se	77					
|	Se	82					
[	Kr	83					
[>	Lu	175			96.6		
|	Tl	205					
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, March 05, 2010 01:33:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 6.293

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	49.863	ug/L	2.386	90862	0.064
[>	Sc	45		ug/L		1408247	1408247.205
[>	Ge	74		ug/L		398888	398887.775
|	As	75	49.731	ug/L	2.805	54555	0.137
|	Se	77		ug/L		11681	0.013
|	Se	82	50.941	ug/L	2.790	5833	0.015
|	Kr	83		ug/L		107	-0.000
[>	Lu	175		ug/L		499794	499794.419
|	Tl	205	51.390	ug/L	0.626	909776	1.816
[U	238	51.527	ug/L	1.176	2042642	4.086

Sample ID: QC Std 6

Report Date/Time: Friday, March 05, 2010 01:33:54

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Li	7	99.725				
[>	Sc	45			94.0		
[>	Ge	74			95.7		
|	As	75	99.463				
|	Se	77					
|	Se	82	101.883				
[	Kr	83					
[>	Lu	175			97.8		
|	Tl	205	102.780				
[U	238	103.055				

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, March 05, 2010 01:36:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl 950262.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 7.294

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Li	7	0.005	ug/L	126.074	80	0.000
[>	Sc	45		ug/L		1405880	1405879.531
[>	Ge	74		ug/L		398880	398880.255
|	As	75	-0.042	ug/L	1436.831	-109	-0.000
|	Se	77		ug/L		7036	0.002
|	Se	82	0.319	ug/L	56.936	30	0.000
[	Kr	83		ug/L		111	-0.000
[>	Lu	175		ug/L		502274	502274.495
|	Tl	205	0.199	ug/L	2.069	5730	0.007
[U	238	0.003	ug/L	11.390	804	0.000

Sample ID: QC Std 7

Report Date/Time: Friday, March 05, 2010 01:37:34

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Sc	45Linear 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	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9997

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Li	7						
[>	Sc	45			93.8			
[>	Ge	74			95.7			
|	As	75						
|	Se	77						
|	Se	82						
[	Kr	83						
[>	Lu	175			98.3			
|	Tl	205						
[	U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Friday, March 05, 2010 07:07:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\Blank.376

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		483993	
[	U	238		ug/L		842	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175						
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Friday, March 05, 2010 07:09:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\w only.mth

Dataset File: c:\elandata\Dataset\100304\Standard 1.377

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		476537	476536.513
[	U	238	10.000	ug/L	2.555	456946	0.957

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
>	Lu	175					
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Friday, March 05, 2010 07:10:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100304\Standard 2.378

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		467713	467713.462
[	U	238	99.803	ug/L	2.139	3733653	7.982

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						
[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, March 05, 2010 07:12:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 1.379

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		474210	474209.627
[	U	238	54.721	ug/L	0.428	2076139	4.376

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			98.0		
[	U	238	109.442				

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, March 05, 2010 07:14:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\w only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 2.380

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		478993	478993.195
[	U	238	0.010	ug/L	8.514	1235	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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		99.0			
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Friday, March 05, 2010 07:15:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 3.381

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175			ug/L		477035	477034.650
[	U	238	0.230		ug/L	1.869	9597	0.018

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			98.6			
[	U	238	114.914					

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 3

Report Date/Time: Friday, March 05, 2010 07:16:02

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ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Friday, March 05, 2010 07:17:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 4.382

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		424983	424983.304
[	U	238	-0.012	ug/L	3.887	318	-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 % Recovery	Dilution %	Duplicate Rel. % Difference
[>	Lu	175		87.8			
[	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 4

Report Date/Time: Friday, March 05, 2010 07:17:40

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ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Friday, March 05, 2010 07:19:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 5.383

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		477203	477202.971
[	U	238	22.926	ug/L	1.456	875794	1.834

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 %	Duplicate Rel. % Difference
[>	Lu	175		98.6			
[	U	238	114.631				

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 6

Sample Date/Time: Friday, March 05, 2010 07:20:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 6.384

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		475737	475737.149
[	U	238	54.112	ug/L	1.214	2059540	4.328

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			98.3			
[	U	238	108.224					

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, March 05, 2010 07:22:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 7.385

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		483880	483880.276
[	U	238	0.010	ug/L	6.226	1217	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	% Recovery	Dilution	% Dil	Duplicate	Rel. % Difference
[>	Lu	175					100.0					
[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

Sample ID: QC Std 7

Report Date/Time: Friday, March 05, 2010 07:22:49

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, March 05, 2010 07:37:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 8.394

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		465448	465447.523
|	U	238	53.175	ug/L	0.258	1980263	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		96.2				
	U	238	106.351					

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, March 05, 2010 07:39:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 9.395

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		473988	473987.853
[	U	238	0.012	ug/L	11.350	1284	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 % Di	Duplicate Rel. % Difference
[>	Lu	175		97.9			
[	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Friday, March 05, 2010 07:39:23

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ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Friday, March 05, 2010 07:52:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 6.403

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		472642	472642.361
[	U	238	52.477	ug/L	2.297	1983903	4.197

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		97.7				
[	U	238	104.953					

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: Friday, March 05, 2010 07:52:41

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ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Friday, March 05, 2010 07:54:11

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 7.404

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		473446	473445.702
[	U	238	0.014	ug/L	7.640	1363	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 % Recovery	Dilution %	Duplicate Rel. % Difference
[>	Lu	175		97.8			
[	U	238					

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036266

Sample Date/Time: Friday, March 05, 2010 07:56:02

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 950262[2]ba]

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100304\1202036266.405

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		455736	455735.671
[	U	238	-0.002	ug/L	25.060	731	-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		94.2				
[	U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036271

Sample Date/Time: Friday, March 05, 2010 07:57:42

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 950262|40|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\1202036271.406

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		484150	484149.623
[	U	238	0.576	ug/L	1.331	23151	0.046

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		100.0				
[	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, March 05, 2010 08:04:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 8.410

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		470173	470172.844
[	U	238	52.356	ug/L	1.460	1969342	4.187

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					97.1					
[	U	238		104.712								

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: Friday, March 05, 2010 08:04:38

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Friday, March 05, 2010 08:06:08

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 9.411

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		471845	471844.813
[	U	238	0.011	ug/L	2.831	1248	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			97.5			
[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: 246322001

Sample Date/Time: Friday, March 05, 2010 08:07:48

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\246322001.412

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		468346	468346.455
[	U	238	6.105	ug/L	0.298	229501	0.488

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			96.8			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 246322001

Report Date/Time: Friday, March 05, 2010 08:07:59

Page 1

ICPMS#5 - Summary Report

Sample ID: 1202036267

Sample Date/Time: Friday, March 05, 2010 08:09:28

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100304\1202036267.413

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		469219	469218.685
[	U	238	5.849	ug/L	1.170	220274	0.468

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		96.9			
[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#5 - Summary Report

Sample ID: 1202036269

Sample Date/Time: Friday, March 05, 2010 08:11:07

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\1202036269.414

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		466602	466602.304
[	U	238	34.329	ug/L	0.658	1281841	2.746

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			96.4			
[U	238						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036270

Sample Date/Time: Friday, March 05, 2010 08:12:48

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100304\1202036270.415

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		452479	452478.504
[U	238	35.037	ug/L	0.838	1268664	2.802

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			93.5		
[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: 1202036268

Sample Date/Time: Friday, March 05, 2010 08:14:29

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 950262|10|baj

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100304\1202036268.416

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		477635	477635.021
[U	238	1.186	ug/L	1.802	46135	0.095

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		98.7				
[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#5 - Summary Report

Sample ID: 246322002

Sample Date/Time: Friday, March 05, 2010 08:16:11

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\246322002.417

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		472106	472105.914
[	U	238	38.447	ug/L	0.950	1452364	3.075

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			97.5		
[	U	238					

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Friday, March 05, 2010 08:17:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 8.418

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		471964	471964.115
[	U	238	53.296	ug/L	0.229	2012599	4.262

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			97.5		
[	U	238	106.591				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Friday, March 05, 2010 08:19:33

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 9.419

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
>	Lu	175		ug/L		471811	471810.735
[	U	238	0.013	ug/L	4.657	1308	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		97.5				
[	U	238						

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246322003

Sample Date/Time: Friday, March 05, 2010 08:21:15

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\246322003.420

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		466180	466180.323
[	U	238	11.247	ug/L	0.983	420062	0.899

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			96.3			
[	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246322005

Sample Date/Time: Friday, March 05, 2010 08:22:56

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\246322005.421

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		464650	464650.475
[	U	238	14.396	ug/L	0.455	535805	1.151

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		96.0			
[	U	238					

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246322006

Sample Date/Time: Friday, March 05, 2010 08:24:36

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\du only.mth

Dataset File: c:\elandata\Dataset\100304\246322006.422

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		473711	473710.989
[	U	238	18.918	ug/L	1.744	717482	1.513

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			97.9			
[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#5 - Summary Report

Sample ID: 246322007

Sample Date/Time: Friday, March 05, 2010 08:26:17

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100304\246322007.423

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		465729	465729.004
[U	238	16.864	ug/L	0.263	628962	1.349

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		96.2			
[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: 246322008

Sample Date/Time: Friday, March 05, 2010 08:27:58

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|baj

Method File: c:\elandata\Method\only.mth

Dataset File: c:\elandata\Dataset\100304\246322008.424

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		478037	478036.734
[	U	238	17.848	ug/L	0.826	683223	1.427

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 %	Duplicate Rel. % Difference
[>	Lu	175			98.8		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 246322008

Report Date/Time: Friday, March 05, 2010 08:28:09

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ICPMS#5 - Summary Report

Sample ID: 246322009

Sample Date/Time: Friday, March 05, 2010 08:29:39

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950262|2|ba|

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\246322009.425

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		460512	460511.675
[	U	238	5.758	ug/L	1.265	212863	0.460

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 % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[>	Lu	175			95.1			
[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, March 05, 2010 08:31:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 6.426

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		466731	466730.506
[	U	238	52.451	ug/L	0.872	1958755	4.195

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			96.4			
[	U	238	104.901					

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, March 05, 2010 08:33:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: c:\elandata\Dataset\100304\QC Std 7.427

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175		ug/L		465694	465694.028
[	U	238	0.016	ug/L	12.818	1397	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 % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[>	Lu	175		96.2			
[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 7

Report Date/Time: Friday, March 05, 2010 08:33:13

Page 1

=====
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\022210S1.SIF

Batch ID:

Results Data Set: 022210S1

Results Library: C:\data-AA\Administrator\Results\Results.mdb

=====
Method Loaded

Method Name: SOIL

Method Last Saved: 1/4/2010 13:53:20

Method Description: 7471A, ILM04 ANALYST JXL

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank

Date Collected: 2/22/2010 09:10:53

Analyst:

Data Type: Original

Replicate Data: Calib Blank

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0004	0.0039	0.0004	09:11:45	Yes
2		[0.00]	0.0002	0.0015	0.0002	09:12:15	Yes
Mean:		[0.00]	0.0003				
SD:		0.00	0.0002				
%RSD:		0.00	53.64				

Auto-zero performed.

Sequence No.: 2

Autosampler Location: 2

Sample ID: S0.2

Date Collected: 2/22/2010 09:12:34

Analyst:

Data Type: Original

Replicate Data: S0.2

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0025	0.0130	0.0028	09:13:24	Yes
2		[0.2]	0.0024	0.0118	0.0027	09:13:54	Yes
Mean:		[0.2]	0.0025				
SD:		0.0	0.0001				
%RSD:		0.0	2.95				

Standard number 1 applied. [0.2]

Correlation Coef.: 1.000000 Slope: 0.01227 Intercept: 0.00000

Sequence No.: 3

Autosampler Location: 3

Sample ID: S0.5

Date Collected: 2/22/2010 09:14:13

Analyst:

Data Type: Original

Replicate Data: S0.5

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0064	0.0296	0.0067	09:15:04	Yes
2		[0.5]	0.0064	0.0296	0.0067	09:15:34	Yes
Mean:		[0.5]	0.0064				
SD:		0.0	0.0000				
%RSD:		0.0	0.76				

Standard number 2 applied. [0.5]

Correlation Coef.: 0.999833 Slope: 0.01281 Intercept: -0.00004

Sequence No.: 4

Autosampler Location: 4

Sample ID: S2.0

Date Collected: 2/22/2010 09:15:53

Analyst:

Data Type: Original

Replicate Data: S2.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2.0]	0.0266	0.1214	0.0270	09:16:44	Yes
2		[2.0]	0.0268	0.1221	0.0271	09:17:14	Yes
Mean:		[2.0]	0.0267				
SD:		0.0	0.0001				
%RSD:		0.0	0.39				

Standard number 3 applied. [2.0]
Correlation Coef.: 0.999935 Slope: 0.01342 Intercept: -0.00017

Sequence No.: 5

Autosampler Location: 5

Sample ID: S5.0

Date Collected: 2/22/2010 09:17:34

Analyst:

Data Type: Original

Replicate Data: S5.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.0658	0.2999	0.0661	09:18:25	Yes
2		[5.0]	0.0654	0.2990	0.0657	09:18:55	Yes
Mean:		[5.0]	0.0656				
SD:		0.0	0.0003				
%RSD:		0.0	0.39				

Standard number 4 applied. [5.0]
Correlation Coef.: 0.999956 Slope: 0.01315 Intercept: -0.00003

Sequence No.: 6

Autosampler Location: 6

Sample ID: S10.0

Date Collected: 2/22/2010 09:19:16

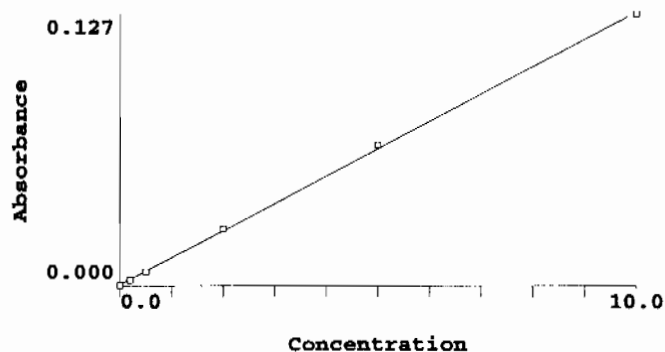
Analyst:

Data Type: Original

Replicate Data: S10.0

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.1267	0.5827	0.1270	09:20:06	Yes
2		[10.0]	0.1264	0.5788	0.1267	09:20:36	Yes
Mean:		[10.0]	0.1266				
SD:		0.0	0.0002				
%RSD:		0.0	0.18				

Standard number 5 applied. [10.0]
Correlation Coef.: 0.999803 Slope: 0.01270 Intercept: 0.00049

-----
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	-0.038	0.00	53.6
S0.2	0.0025	0.2	0.155	0.00	2.9
S0.5	0.0064	0.5	0.465	0.00	0.8
S2.0	0.0267	2.0	2.066	0.00	0.4

S5.0 0.0656 5.0 5.126 0.00 0.4
S10.0 0.1266 10.0 9.926 0.00 0.2
Correlation Coef.: 0.999803 Slope: 0.01270 Intercept: 0.00049

Sequence No.: 7

Sample ID: ICV

Analyst:

Autosampler Location: 9

Date Collected: 2/22/2010 09:20:55

Data Type: Original

Replicate Data: ICV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.163	5.163	0.0661	0.3028	0.0664	09:21:46	Yes
2	5.137	5.137	0.0657	0.3006	0.0660	09:22:15	Yes
Mean:	5.150	5.150	0.0659				
SD:	0.019	0.019	0.0002				
%RSD:	0.366	0.366	0.36				

QC value within limits for Hg 253.7 Recovery = 103.00%

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: ICB

Analyst:

Autosampler Location: 10

Date Collected: 2/22/2010 09:22:35

Data Type: Original

Replicate Data: ICB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.059	-0.059	-0.0003	-0.0018	0.0001	09:23:26	Yes
2	-0.054	-0.054	-0.0002	-0.0015	0.0001	09:23:56	Yes
Mean:	-0.056	-0.056	-0.0002				
SD:	0.003	0.003	0.0000				
%RSD:	6.211	6.211	19.49				

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: 2/22/2010 09:24:16

Data Type: Original

Replicate Data: CRDL

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.155	0.155	0.0025	0.0117	0.0028	09:25:07	Yes
2	0.147	0.147	0.0024	0.0106	0.0027	09:25:37	Yes
Mean:	0.151	0.151	0.0024				
SD:	0.006	0.006	0.0001				
%RSD:	3.846	3.846	3.07				

QC value within limits for Hg 253.7 Recovery = 75.56%

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/22/2010 09:25:57

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.065	5.065	0.0648	0.2977	0.0651	09:26:47	Yes
2	5.044	5.044	0.0645	0.2946	0.0649	09:27:17	Yes
Mean:	5.055	5.055	0.0647				
SD:	0.015	0.015	0.0002				
%RSD:	0.296	0.296	0.29				

QC value within limits for Hg 253.7 Recovery = 101.09%

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 2/22/2010 09:27:36
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.057	-0.057	-0.0002	-0.0011	0.0001	09:28:26	Yes
2	-0.063	-0.063	-0.0003	-0.0019	0.0000	09:28:56	Yes
Mean:	-0.060	-0.060	-0.0003				
SD:	0.004	0.004	0.0000				
%RSD:	6.512	6.512	17.97				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 12
Sample ID: 1202039119|951482|1
Analyst: JXL

Autosampler Location: 12
Date Collected: 2/22/2010 09:29:16
Data Type: Original

Replicate Data: 1202039119|951482|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.060	-0.060	-0.0003	-0.0016	0.0000	09:30:08	Yes
2	-0.057	-0.057	-0.0002	-0.0007	0.0001	09:30:37	Yes
Mean:	-0.058	-0.058	-0.0003				
SD:	0.003	0.003	0.0000				
%RSD:	4.517	4.517	13.10				

Sequence No.: 13
Sample ID: 1202039120|951482|10
Analyst: JXL

Autosampler Location: 13
Date Collected: 2/22/2010 09:30:58
Data Type: Original

Replicate Data: 1202039120|951482|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.981	3.981	0.0510	0.2348	0.0514	09:31:50	Yes
2	3.964	3.964	0.0508	0.2328	0.0511	09:32:20	Yes
Mean:	3.972	3.972	0.0509				
SD:	0.012	0.012	0.0002				
%RSD:	0.302	0.302	0.30				

Sequence No.: 14
Sample ID: 246354001|951482|1
Analyst: JXL

Autosampler Location: 14
Date Collected: 2/22/2010 09:32:40
Data Type: Original

Replicate Data: 246354001|951482|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.212	0.212	0.0032	0.0151	0.0035	09:33:31	Yes
2	0.210	0.210	0.0031	0.0144	0.0035	09:34:01	Yes
Mean:	0.211	0.211	0.0032				
SD:	0.002	0.002	0.0000				
%RSD:	0.960	0.960	0.81				

Sequence No.: 15
Sample ID: 246354002|951482|1
Analyst: JXL

Autosampler Location: 15
Date Collected: 2/22/2010 09:34:20
Data Type: Original

Replicate Data: 246354002|951482|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
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Replicate Data: 246354007|951482|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.215	0.215	0.0032	0.0155	0.0035	09:43:28	Yes
2	0.217	0.217	0.0032	0.0156	0.0036	09:43:58	Yes
Mean:	0.216	0.216	0.0032				
SD:	0.002	0.002	0.0000				
%RSD:	0.955	0.955	0.81				

Sequence No.: 21

Autosampler Location: 21

Sample ID: 246354008|951482|1

Date Collected: 2/22/2010 09:44:17

Analyst: JXL

Data Type: Original

Replicate Data: 246354008|951482|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.193	0.193	0.0029	0.0149	0.0032	09:45:08	Yes
2	0.196	0.196	0.0030	0.0157	0.0033	09:45:38	Yes
Mean:	0.195	0.195	0.0030				
SD:	0.003	0.003	0.0000				
%RSD:	1.377	1.377	1.15				

Sequence No.: 22

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/22/2010 09:45:58

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.013	5.013	0.0641	0.2931	0.0645	09:46:48	Yes
2	4.982	4.982	0.0638	0.2911	0.0641	09:47:18	Yes
Mean:	4.997	4.997	0.0639				
SD:	0.022	0.022	0.0003				
%RSD:	0.441	0.441	0.44				

QC value within limits for Hg 253.7 Recovery = 99.94%
All analyte(s) passed QC.

Sequence No.: 23

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/22/2010 09:47:37

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.050	-0.050	-0.0001	0.0008	0.0002	09:48:28	Yes
2	-0.048	-0.048	-0.0001	0.0011	0.0002	09:48:58	Yes
Mean:	-0.049	-0.049	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	2.111	2.111	9.57				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 24

Autosampler Location: 22

Sample ID: 246354009|951482|1

Date Collected: 2/22/2010 09:49:17

Analyst: JXL

Data Type: Original

Replicate Data: 246354009|951482|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.192	0.192	0.0029	0.0145	0.0032	09:50:09	Yes
2	0.189	0.189	0.0029	0.0142	0.0032	09:50:39	Yes

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.186	2.186	0.0283	0.1317	0.0286	09:58:34	Yes
2	2.176	2.176	0.0281	0.1305	0.0284	09:59:04	Yes
Mean:	2.181	2.181	0.0282				
SD:	0.008	0.008	0.0001				
%RSD:	0.344	0.344	0.34				

Sequence No.: 30

Autosampler Location: 28

Sample ID: 1202039129|951482|1

Date Collected: 2/22/2010 09:59:23

Analyst: JXL

Data Type: Original

Replicate Data: 1202039129|951482|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.225	2.225	0.0287	0.1337	0.0291	10:00:14	Yes
2	2.228	2.228	0.0288	0.1333	0.0291	10:00:44	Yes
Mean:	2.227	2.227	0.0288				
SD:	0.002	0.002	0.0000				
%RSD:	0.072	0.072	0.07				

Sequence No.: 31

Autosampler Location: 29

Sample ID: 1202039128|951482|5

Date Collected: 2/22/2010 10:01:03

Analyst: JXL

Data Type: Original

Replicate Data: 1202039128|951482|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.013	-0.013	0.0003	0.0020	0.0006	10:01:54	Yes
2	-0.008	-0.008	0.0004	0.0029	0.0007	10:02:23	Yes
Mean:	-0.011	-0.011	0.0003				
SD:	0.003	0.003	0.0000				
%RSD:	30.67	30.67	12.01				

Sequence No.: 32

Autosampler Location: 30

Sample ID: 246452002|951482|1

Date Collected: 2/22/2010 10:02:43

Analyst: JXL

Data Type: Original

Replicate Data: 246452002|951482|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.266	0.266	0.0039	0.0191	0.0042	10:03:33	Yes
2	0.265	0.265	0.0038	0.0189	0.0042	10:04:03	Yes
Mean:	0.266	0.266	0.0039				
SD:	0.001	0.001	0.0000				
%RSD:	0.492	0.492	0.43				

Sequence No.: 33

Autosampler Location: 31

Sample ID: 246452003|951482|1

Date Collected: 2/22/2010 10:04:22

Analyst: JXL

Data Type: Original

Replicate Data: 246452003|951482|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.614	0.614	0.0083	0.0391	0.0086	10:05:13	Yes
2	0.615	0.615	0.0083	0.0390	0.0086	10:05:43	Yes
Mean:	0.615	0.615	0.0083				
SD:	0.001	0.001	0.0000				
%RSD:	0.120	0.120	0.11				

Sequence No.: 34

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/22/2010 10:06:02

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.056	5.056	0.0647	0.2940	0.0650	10:06:53	Yes
2	5.026	5.026	0.0643	0.2919	0.0646	10:07:23	Yes
Mean:	5.041	5.041	0.0645				
SD:	0.021	0.021	0.0003				
%RSD:	0.413	0.413	0.41				

QC value within limits for Hg 253.7 Recovery = 100.82%
All analyte(s) passed QC.

=====

Sequence No.: 35

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/22/2010 10:07:42

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.045	-0.045	-0.0001	0.0014	0.0002	10:08:32	Yes
2	-0.052	-0.052	-0.0002	0.0004	0.0001	10:09:02	Yes
Mean:	-0.049	-0.049	-0.0001				
SD:	0.005	0.005	0.0001				
%RSD:	10.34	10.34	49.00				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 36

Autosampler Location: 32

Sample ID: 246452004|951482|1

Date Collected: 2/22/2010 10:09:21

Analyst: JXL

Data Type: Original

Replicate Data: 246452004|951482|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.312	0.312	0.0044	0.0217	0.0048	10:10:13	Yes
2	0.306	0.306	0.0044	0.0208	0.0047	10:10:43	Yes
Mean:	0.309	0.309	0.0044				
SD:	0.004	0.004	0.0000				
%RSD:	1.188	1.188	1.06				

=====

Sequence No.: 37

Autosampler Location: 33

Sample ID: 246452005|951482|1

Date Collected: 2/22/2010 10:11:02

Analyst: JXL

Data Type: Original

Replicate Data: 246452005|951482|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.291	0.291	0.0042	0.0201	0.0045	10:11:53	Yes
2	0.292	0.292	0.0042	0.0201	0.0045	10:12:23	Yes
Mean:	0.291	0.291	0.0042				
SD:	0.001	0.001	0.0000				
%RSD:	0.301	0.301	0.27				

=====

Sequence No.: 38

Autosampler Location: 34

Sample ID: 246452006|951482|1

Date Collected: 2/22/2010 10:12:43

Analyst: JXL

Data Type: Original

Replicate Data: 246452006|951482|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.195	0.195	0.0030	0.0152	0.0033	10:13:34	Yes

Replicate Data: 1202039279|951546|10

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.679	3.679	0.0472	0.2153	0.0475	10:21:59	Yes
2	3.681	3.681	0.0472	0.2140	0.0476	10:22:29	Yes
Mean:	3.680	3.680	0.0472				
SD:	0.002	0.002	0.0000				
%RSD:	0.043	0.043	0.04				

Sequence No.: 44

Sample ID: 246055001|951546|1

Analyst: JXL

Autosampler Location: 40

Date Collected: 2/22/2010 10:22:49

Data Type: Original

Replicate Data: 246055001|951546|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.235	0.235	0.0035	0.0168	0.0038	10:23:39	Yes
2	0.234	0.234	0.0035	0.0169	0.0038	10:24:09	Yes
Mean:	0.235	0.235	0.0035				
SD:	0.000	0.000	0.0000				
%RSD:	0.079	0.079	0.07				

Sequence No.: 45

Sample ID: 1202039280|951546|1

Analyst: JXL

Autosampler Location: 41

Date Collected: 2/22/2010 10:24:29

Data Type: Original

Replicate Data: 1202039280|951546|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.078	0.078	0.0015	0.0080	0.0018	10:25:20	Yes
2	0.078	0.078	0.0015	0.0078	0.0018	10:25:50	Yes
Mean:	0.078	0.078	0.0015				
SD:	0.000	0.000	0.0000				
%RSD:	0.484	0.484	0.33				

Sequence No.: 46

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/22/2010 10:26:09

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.123	5.123	0.0656	0.2977	0.0659	10:27:00	Yes
2	5.104	5.104	0.0653	0.2968	0.0656	10:27:30	Yes
Mean:	5.114	5.114	0.0654				
SD:	0.014	0.014	0.0002				
%RSD:	0.275	0.275	0.27				

QC value within limits for Hg 253.7 Recovery = 102.27%

All analyte(s) passed QC.

Sequence No.: 47

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/22/2010 10:27:49

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.050	-0.050	-0.0002	0.0007	0.0002	10:28:39	Yes
2	-0.052	-0.052	-0.0002	0.0004	0.0001	10:29:09	Yes
Mean:	-0.051	-0.051	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	1.698	1.698	6.85				

QC value within limits for Hg 253.7 Recovery = Not calculated

Replicate Data: 246055008|951546|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.143	0.143	0.0023	0.0118	0.0026	10:45:29	Yes
2	0.146	0.146	0.0023	0.0124	0.0027	10:45:59	Yes
Mean:	0.144	0.144	0.0023				
SD:	0.002	0.002	0.0000				
%RSD:	1.723	1.723	1.36				

Sequence No.: 58

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/22/2010 10:46:18

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.173	5.173	0.0662	0.2986	0.0665	10:47:08	Yes
2	5.219	5.219	0.0668	0.2990	0.0671	10:47:38	Yes
Mean:	5.196	5.196	0.0665				
SD:	0.033	0.033	0.0004				
%RSD:	0.630	0.630	0.63				

QC value within limits for Hg 253.7 Recovery = 103.92%
All analyte(s) passed QC.

Sequence No.: 59

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/22/2010 10:47:57

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.047	-0.047	-0.0001	0.0014	0.0002	10:48:48	Yes
2	-0.049	-0.049	-0.0001	0.0010	0.0002	10:49:18	Yes
Mean:	-0.048	-0.048	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	3.335	3.335	16.87				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 60

Sample ID: 246055009|951546|1

Analyst: JXL

Autosampler Location: 52

Date Collected: 2/22/2010 10:49:37

Data Type: Original

Replicate Data: 246055009|951546|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.293	0.293	0.0042	0.0202	0.0045	10:50:28	Yes
2	0.291	0.291	0.0042	0.0196	0.0045	10:50:58	Yes
Mean:	0.292	0.292	0.0042				
SD:	0.002	0.002	0.0000				
%RSD:	0.666	0.666	0.59				

Sequence No.: 61

Sample ID: 1202039295|951551|1

Analyst: JXL

Autosampler Location: 53

Date Collected: 2/22/2010 10:51:17

Data Type: Original

Replicate Data: 1202039295|951551|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.050	-0.050	-0.0001	0.0009	0.0002	10:52:08	Yes
2	-0.047	-0.047	-0.0001	0.0014	0.0002	10:52:38	Yes
Mean:	-0.049	-0.049	-0.0001				

#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.421	2.421	0.0312	0.1398	0.0315	11:00:33	Yes
2	2.409	2.409	0.0311	0.1392	0.0314	11:01:03	Yes
Mean:	2.415	2.415	0.0312				
SD:	0.008	0.008	0.0001				
%RSD:	0.333	0.333	0.33				

Sequence No.: 67

Autosampler Location: 59

Sample ID: 1202039299|951551|5

Date Collected: 2/22/2010 11:01:22

Analyst: JXL

Data Type: Original

Replicate Data: 1202039299|951551|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.000	0.000	0.0005	0.0034	0.0008	11:02:14	Yes
2	0.003	0.003	0.0005	0.0034	0.0008	11:02:44	Yes
Mean:	0.001	0.001	0.0005				
SD:	0.002	0.002	0.0000				
%RSD:	149.8	149.8	5.53				

Sequence No.: 68

Autosampler Location: 60

Sample ID: 246066002|951551|1

Date Collected: 2/22/2010 11:03:04

Analyst: JXL

Data Type: Original

Replicate Data: 246066002|951551|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.208	0.208	0.0031	0.0155	0.0034	11:03:56	Yes
2	0.208	0.208	0.0031	0.0152	0.0034	11:04:26	Yes
Mean:	0.208	0.208	0.0031				
SD:	0.000	0.000	0.0000				
%RSD:	0.196	0.196	0.17				

Sequence No.: 69

Autosampler Location: 61

Sample ID: 246066003|951551|1

Date Collected: 2/22/2010 11:04:46

Analyst: JXL

Data Type: Original

Replicate Data: 246066003|951551|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.196	0.196	0.0030	0.0147	0.0033	11:05:38	Yes
2	0.189	0.189	0.0029	0.0144	0.0032	11:06:08	Yes
Mean:	0.193	0.193	0.0029				
SD:	0.005	0.005	0.0001				
%RSD:	2.670	2.670	2.23				

Sequence No.: 70

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/22/2010 11:06:28

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.198	5.198	0.0665	0.2949	0.0668	11:07:18	Yes
2	5.157	5.157	0.0660	0.2914	0.0663	11:07:48	Yes
Mean:	5.177	5.177	0.0662				
SD:	0.029	0.029	0.0004				
%RSD:	0.555	0.555	0.55				

QC value within limits for Hg 253.7 Recovery = 103.54%
All analyte(s) passed QC.

Sequence No.: 71

Autosampler Location: 8

Sample ID: CCB
Analyst:

Date Collected: 2/22/2010 11:08:07
Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.051	-0.051	-0.0002	0.0008	0.0002	11:08:58	Yes
2	-0.059	-0.059	-0.0003	-0.0005	0.0001	11:09:28	Yes
Mean:	-0.055	-0.055	-0.0002				
SD:	0.006	0.006	0.0001				
%RSD:	10.73	10.73	35.82				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 72
Sample ID: 246066004|951551|1
Analyst: JXL

Autosampler Location: 62
Date Collected: 2/22/2010 11:09:47
Data Type: Original

Replicate Data: 246066004|951551|1

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.397	0.397	0.0055	0.0260	0.0058	11:10:38	Yes
2	0.396	0.396	0.0055	0.0259	0.0058	11:11:08	Yes
Mean:	0.397	0.397	0.0055				
SD:	0.001	0.001	0.0000				
%RSD:	0.217	0.217	0.20				

=====

Sequence No.: 73
Sample ID: 246066005|951551|1
Analyst: JXL

Autosampler Location: 63
Date Collected: 2/22/2010 11:11:28
Data Type: Original

Replicate Data: 246066005|951551|1

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.055	0.055	0.0012	0.0065	0.0015	11:12:19	Yes
2	0.058	0.058	0.0012	0.0067	0.0015	11:12:49	Yes
Mean:	0.056	0.056	0.0012				
SD:	0.002	0.002	0.0000				
%RSD:	3.337	3.337	1.99				

=====

Sequence No.: 74
Sample ID: 246066006|951551|1
Analyst: JXL

Autosampler Location: 64
Date Collected: 2/22/2010 11:13:09
Data Type: Original

Replicate Data: 246066006|951551|1

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.544	0.544	0.0074	0.0341	0.0077	11:14:00	Yes
2	0.536	0.536	0.0073	0.0334	0.0076	11:14:29	Yes
Mean:	0.540	0.540	0.0073				
SD:	0.005	0.005	0.0001				
%RSD:	0.997	0.997	0.93				

=====

Sequence No.: 75
Sample ID: 246066007|951551|1
Analyst: JXL

Autosampler Location: 65
Date Collected: 2/22/2010 11:14:49
Data Type: Original

Replicate Data: 246066007|951551|1

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.002	-0.002	0.0005	0.0037	0.0008	11:15:40	Yes
2	-0.006	-0.006	0.0004	0.0030	0.0007	11:16:10	Yes

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.221	0.221	0.0033	0.0163	0.0036	11:24:05	Yes
2	0.222	0.222	0.0033	0.0160	0.0036	11:24:35	Yes
Mean:	0.222	0.222	0.0033				
SD:	0.001	0.001	0.0000				
%RSD:	0.315	0.315	0.27				

Sequence No.: 81

Autosampler Location: 71

Sample ID: 246066013|951551|1

Date Collected: 2/22/2010 11:24:55

Analyst: JXL

Data Type: Original

Replicate Data: 246066013|951551|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.231	0.231	0.0034	0.0169	0.0037	11:25:46	Yes
2	0.231	0.231	0.0034	0.0169	0.0037	11:26:16	Yes
Mean:	0.231	0.231	0.0034				
SD:	0.000	0.000	0.0000				
%RSD:	0.178	0.178	0.15				

Sequence No.: 82

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/22/2010 11:26:36

Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.134	5.134	0.0657	0.2970	0.0660	11:27:26	Yes
2	5.183	5.183	0.0663	0.2978	0.0666	11:27:56	Yes
Mean:	5.158	5.158	0.0660				
SD:	0.035	0.035	0.0004				
%RSD:	0.675	0.675	0.67				

QC value within limits for Hg 253.7 Recovery = 103.17%
All analyte(s) passed QC.

Sequence No.: 83

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/22/2010 11:28:15

Analyst:

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.051	-0.051	-0.0002	0.0004	0.0002	11:29:06	Yes
2	-0.051	-0.051	-0.0002	0.0006	0.0001	11:29:36	Yes
Mean:	-0.051	-0.051	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	0.992	0.992	3.97				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 84

Autosampler Location: 72

Sample ID: 246066014|951551|1

Date Collected: 2/22/2010 11:29:55

Analyst: JXL

Data Type: Original

Replicate Data: 246066014|951551|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.276	0.276	0.0040	0.0192	0.0043	11:30:47	Yes
2	0.275	0.275	0.0040	0.0193	0.0043	11:31:17	Yes
Mean:	0.275	0.275	0.0040				
SD:	0.001	0.001	0.0000				
%RSD:	0.223	0.223	0.20				

2	0.359	0.359	0.0050	0.0246	0.0054	11:39:44	Yes
Mean:	0.358	0.358	0.0050				
SD:	0.001	0.001	0.0000				
%RSD:	0.399	0.399	0.36				

Sequence No.: 90

Sample ID: 246066020|951551|1

Analyst: JXL

Autosampler Location: 78

Date Collected: 2/22/2010 11:40:04

Data Type: Original

Replicate Data: 246066020|951551|1

Repl	SampleConc	StdConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.204	0.204	0.0031	0.0155	0.0034	11:40:56	Yes
2	0.203	0.203	0.0031	0.0153	0.0034	11:41:26	Yes
Mean:	0.203	0.203	0.0031				
SD:	0.001	0.001	0.0000				
%RSD:	0.295	0.295	0.25				

Sequence No.: 91

Sample ID: 1202039372|951590|1

Analyst: JXL

Autosampler Location: 79

Date Collected: 2/22/2010 11:41:46

Data Type: Original

Replicate Data: 1202039372|951590|1

Repl	SampleConc	StdConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.049	-0.049	-0.0001	0.0008	0.0002	11:42:37	Yes
2	-0.050	-0.050	-0.0001	0.0008	0.0002	11:43:07	Yes
Mean:	-0.049	-0.049	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	1.906	1.906	8.54				

Sequence No.: 92

Sample ID: 1202039373|951590|10

Analyst: JXL

Autosampler Location: 80

Date Collected: 2/22/2010 11:43:27

Data Type: Original

Replicate Data: 1202039373|951590|10

Repl	SampleConc	StdConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.482	3.482	0.0447	0.2028	0.0450	11:44:18	Yes
2	3.463	3.463	0.0445	0.2014	0.0448	11:44:48	Yes
Mean:	3.472	3.472	0.0446				
SD:	0.013	0.013	0.0002				
%RSD:	0.380	0.380	0.38				

Sequence No.: 93

Sample ID: 246315001|951590|1

Analyst: JXL

Autosampler Location: 81

Date Collected: 2/22/2010 11:45:08

Data Type: Original

Replicate Data: 246315001|951590|1

Repl	SampleConc	StdConc	BlnkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.268	0.268	0.0039	0.0189	0.0042	11:45:59	Yes
2	0.268	0.268	0.0039	0.0192	0.0042	11:46:29	Yes
Mean:	0.268	0.268	0.0039				
SD:	0.000	0.000	0.0000				
%RSD:	0.025	0.025	0.02				

Sequence No.: 94

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/22/2010 11:46:49

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.179	5.179	0.0663	0.2999	0.0666	11:47:39	Yes
2	5.174	5.174	0.0662	0.2995	0.0665	11:48:09	Yes
Mean:	5.176	5.176	0.0662				
SD:	0.004	0.004	0.0000				
%RSD:	0.068	0.068	0.07				

QC value within limits for Hg 253.7 Recovery = 103.53%
All analyte(s) passed QC.

Sequence No.: 95

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/22/2010 11:48:28

Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.047	-0.047	-0.0001	0.0010	0.0002	11:49:18	Yes
2	-0.050	-0.050	-0.0001	0.0011	0.0002	11:49:48	Yes
Mean:	-0.048	-0.048	-0.0001				
SD:	0.002	0.002	0.0000				
%RSD:	4.622	4.622	22.49				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 96

Sample ID: 246315002|951590|1

Analyst: JXL

Autosampler Location: 82

Date Collected: 2/22/2010 11:50:07

Data Type: Original

Replicate Data: 246315002|951590|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.392	0.392	0.0055	0.0259	0.0058	11:50:59	Yes
2	0.393	0.393	0.0055	0.0259	0.0058	11:51:29	Yes
Mean:	0.392	0.392	0.0055				
SD:	0.000	0.000	0.0000				
%RSD:	0.024	0.024	0.02				

Sequence No.: 97

Sample ID: 246315003|951590|1

Analyst: JXL

Autosampler Location: 83

Date Collected: 2/22/2010 11:51:49

Data Type: Original

Replicate Data: 246315003|951590|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.153	1.153	0.0151	0.0705	0.0154	11:52:41	Yes
2	1.142	1.142	0.0150	0.0688	0.0153	11:53:11	Yes
Mean:	1.147	1.147	0.0151				
SD:	0.008	0.008	0.0001				
%RSD:	0.668	0.668	0.65				

Sequence No.: 98

Sample ID: 246322001|951590|1

Analyst: JXL

Autosampler Location: 84

Date Collected: 2/22/2010 11:53:31

Data Type: Original

Replicate Data: 246322001|951590|1

Repl #	SampleConc ug/L	StdndConc ug/L	BlndCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.027	-0.027	0.0001	0.0018	0.0005	11:54:23	Yes
2	-0.027	-0.027	0.0001	0.0018	0.0005	11:54:52	Yes
Mean:	-0.027	-0.027	0.0001				
SD:	0.001	0.001	0.0000				

%RSD: 1.859 1.859 4.44

Sequence No.: 99

Sample ID: 246322002|951590|1

Analyst: JXL

Autosampler Location: 85

Date Collected: 2/22/2010 11:55:13

Data Type: Original

Replicate Data: 246322002|951590|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.050	0.050	0.0011	0.0065	0.0014	11:56:04	Yes
2	0.051	0.051	0.0011	0.0065	0.0015	11:56:34	Yes
Mean:	0.051	0.051	0.0011				
SD:	0.001	0.001	0.0000				
%RSD:	1.509	1.509	0.86				

Sequence No.: 100

Sample ID: 246322003|951590|1

Analyst: JXL

Autosampler Location: 86

Date Collected: 2/22/2010 11:56:54

Data Type: Original

Replicate Data: 246322003|951590|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.004	-0.004	0.0004	0.0035	0.0007	11:57:46	Yes
2	-0.006	-0.006	0.0004	0.0035	0.0007	11:58:16	Yes
Mean:	-0.005	-0.005	0.0004				
SD:	0.001	0.001	0.0000				
%RSD:	18.36	18.36	2.73				

Sequence No.: 101

Sample ID: 246322004|951590|1

Analyst: JXL

Autosampler Location: 87

Date Collected: 2/22/2010 11:58:36

Data Type: Original

Replicate Data: 246322004|951590|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.134	0.134	0.0022	0.0113	0.0025	11:59:27	Yes
2	0.131	0.131	0.0021	0.0113	0.0025	11:59:57	Yes
Mean:	0.132	0.132	0.0022				
SD:	0.002	0.002	0.0000				
%RSD:	1.476	1.476	1.14				

Sequence No.: 102

Sample ID: 246322005|951590|1

Analyst: JXL

Autosampler Location: 88

Date Collected: 2/22/2010 12:00:17

Data Type: Original

Replicate Data: 246322005|951590|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.008	-0.008	0.0004	0.0036	0.0007	12:01:09	Yes
2	-0.009	-0.009	0.0004	0.0029	0.0007	12:01:39	Yes
Mean:	-0.009	-0.009	0.0004				
SD:	0.001	0.001	0.0000				
%RSD:	14.23	14.23	4.14				

Sequence No.: 103

Sample ID: 246322006|951590|1

Analyst: JXL

Autosampler Location: 89

Date Collected: 2/22/2010 12:01:59

Data Type: Original

Replicate Data: 246322006|951590|1

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored

1	0.125	0.125	0.0021	0.0107	0.0024	12:02:50	Yes
2	0.123	0.123	0.0020	0.0102	0.0024	12:03:20	Yes
Mean:	0.124	0.124	0.0021				
SD:	0.002	0.002	0.0000				
%RSD:	1.423	1.423	1.09				

Sequence No.: 104

Autosampler Location: 90

Sample ID: 246322007|951590|1

Date Collected: 2/22/2010 12:03:40

Analyst: JXL

Data Type: Original

Replicate Data: 246322007|951590|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.003	0.003	0.0005	0.0040	0.0008	12:04:31	Yes
2	0.001	0.001	0.0005	0.0036	0.0008	12:05:01	Yes
Mean:	0.002	0.002	0.0005				
SD:	0.002	0.002	0.0000				
%RSD:	67.73	67.73	3.83				

Sequence No.: 105

Autosampler Location: 91

Sample ID: 246322008|951590|1

Date Collected: 2/22/2010 12:05:22

Analyst: JXL

Data Type: Original

Replicate Data: 246322008|951590|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.053	0.053	0.0012	0.0071	0.0015	12:06:14	Yes
2	0.053	0.053	0.0012	0.0069	0.0015	12:06:43	Yes
Mean:	0.053	0.053	0.0012				
SD:	0.000	0.000	0.0000				
%RSD:	0.089	0.089	0.05				

Sequence No.: 106

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/22/2010 12:07:04

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.198	5.198	0.0665	0.3022	0.0668	12:07:54	Yes
2	5.174	5.174	0.0662	0.3001	0.0665	12:08:24	Yes
Mean:	5.186	5.186	0.0663				
SD:	0.018	0.018	0.0002				
%RSD:	0.339	0.339	0.34				

QC value within limits for Hg 253.7 Recovery = 103.72%

All analyte(s) passed QC.

Sequence No.: 107

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/22/2010 12:08:43

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.052	-0.052	-0.0002	0.0005	0.0001	12:09:33	Yes
2	-0.051	-0.051	-0.0002	0.0008	0.0002	12:10:03	Yes
Mean:	-0.051	-0.051	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	1.688	1.688	6.65				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 108
Sample ID: 246322009|951590|1
Analyst: JXL

Autosampler Location: 92
Date Collected: 2/22/2010 12:10:23
Data Type: Original

Replicate Data: 246322009|951590|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.003	-0.003	0.0004	0.0036	0.0008	12:11:14	Yes
2	0.002	0.002	0.0005	0.0042	0.0008	12:11:44	Yes
Mean:	-0.001	-0.001	0.0005				
SD:	0.003	0.003	0.0000				
%RSD:	640.5	640.5	8.96				

Sequence No.: 109
Sample ID: 246325001|951590|1
Analyst: JXL

Autosampler Location: 93
Date Collected: 2/22/2010 12:12:04
Data Type: Original

Replicate Data: 246325001|951590|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.055	0.055	0.0012	0.0067	0.0015	12:12:55	Yes
2	0.056	0.056	0.0012	0.0069	0.0015	12:13:25	Yes
Mean:	0.055	0.055	0.0012				
SD:	0.001	0.001	0.0000				
%RSD:	0.909	0.909	0.54				

Sequence No.: 110
Sample ID: 246325002|951590|1
Analyst: JXL

Autosampler Location: 94
Date Collected: 2/22/2010 12:13:45
Data Type: Original

Replicate Data: 246325002|951590|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.072	0.072	0.0014	0.0072	0.0017	12:14:37	Yes
2	0.074	0.074	0.0014	0.0075	0.0017	12:15:07	Yes
Mean:	0.073	0.073	0.0014				
SD:	0.001	0.001	0.0000				
%RSD:	1.065	1.065	0.70				

Sequence No.: 111
Sample ID: 246325003|951590|1
Analyst: JXL

Autosampler Location: 95
Date Collected: 2/22/2010 12:15:27
Data Type: Original

Replicate Data: 246325003|951590|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.047	0.047	0.0011	0.0061	0.0014	12:16:18	Yes
2	0.048	0.048	0.0011	0.0062	0.0014	12:16:48	Yes
Mean:	0.048	0.048	0.0011				
SD:	0.000	0.000	0.0000				
%RSD:	0.552	0.552	0.31				

Sequence No.: 112
Sample ID: 246325004|951590|1
Analyst: JXL

Autosampler Location: 96
Date Collected: 2/22/2010 12:17:08
Data Type: Original

Replicate Data: 246325004|951590|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.054	0.054	0.0012	0.0052	0.0015	12:18:00	Yes
2	0.077	0.077	0.0015	0.0088	0.0018	12:18:30	Yes
Mean:	0.065	0.065	0.0013				

SD: 0.016 0.016 0.0002
%RSD: 24.04 24.04 15.16

Sequence No.: 113

Autosampler Location: 97

Sample ID: 246325005|951590|1

Date Collected: 2/22/2010 12:18:50

Analyst: JXL

Data Type: Original

Replicate Data: 246325005|951590|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.181	0.181	0.0028	0.0142	0.0031	12:19:42	Yes
2	0.176	0.176	0.0027	0.0137	0.0030	12:20:12	Yes
Mean:	0.179	0.179	0.0028				
SD:	0.003	0.003	0.0000				
%RSD:	1.697	1.697	1.40				

Sequence No.: 114

Autosampler Location: 98

Sample ID: 246325006|951590|1

Date Collected: 2/22/2010 12:20:32

Analyst: JXL

Data Type: Original

Replicate Data: 246325006|951590|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.402	0.402	0.0056	0.0267	0.0059	12:21:24	Yes
2	0.405	0.405	0.0056	0.0266	0.0059	12:21:54	Yes
Mean:	0.404	0.404	0.0056				
SD:	0.002	0.002	0.0000				
%RSD:	0.511	0.511	0.47				

Sequence No.: 115

Autosampler Location: 99

Sample ID: 246338001|951590|1

Date Collected: 2/22/2010 12:22:14

Analyst: JXL

Data Type: Original

Replicate Data: 246338001|951590|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.019	-0.019	0.0002	0.0022	0.0006	12:23:06	Yes
2	-0.018	-0.018	0.0003	0.0023	0.0006	12:23:36	Yes
Mean:	-0.018	-0.018	0.0003				
SD:	0.000	0.000	0.0000				
%RSD:	1.948	1.948	1.80				

Sequence No.: 116

Autosampler Location: 100

Sample ID: 1202039374|951590|1

Date Collected: 2/22/2010 12:23:57

Analyst: JXL

Data Type: Original

Replicate Data: 1202039374|951590|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.019	-0.019	0.0003	0.0024	0.0006	12:24:48	Yes
2	-0.020	-0.020	0.0002	0.0022	0.0005	12:25:18	Yes
Mean:	-0.019	-0.019	0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	4.964	4.964	4.99				

Sequence No.: 117

Autosampler Location: 101

Sample ID: 1202039375|951590|1

Date Collected: 2/22/2010 12:25:39

Analyst: JXL

Data Type: Original

Replicate Data: 1202039375|951590|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
------	------------	---------	---------	------	------	------	------

#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.120	2.120	0.0274	0.1247	0.0277	12:26:31	Yes
2	2.114	2.114	0.0273	0.1239	0.0276	12:27:01	Yes
Mean:	2.117	2.117	0.0274				
SD:	0.005	0.005	0.0001				
%RSD:	0.226	0.226	0.22				

Sequence No.: 118

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/22/2010 12:27:21

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.178	5.178	0.0662	0.3008	0.0666	12:28:12	Yes
2	5.147	5.147	0.0658	0.2988	0.0662	12:28:42	Yes
Mean:	5.162	5.162	0.0660				
SD:	0.022	0.022	0.0003				
%RSD:	0.427	0.427	0.42				

QC value within limits for Hg 253.7 Recovery = 103.25%
All analyte(s) passed QC.

Sequence No.: 119

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/22/2010 12:29:01

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.051	-0.051	-0.0002	0.0004	0.0001	12:29:52	Yes
2	-0.051	-0.051	-0.0002	0.0005	0.0002	12:30:22	Yes
Mean:	-0.051	-0.051	-0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	0.586	0.586	2.33				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 120

Autosampler Location: 102

Sample ID: 1202039377|951590|1

Date Collected: 2/22/2010 12:30:41

Analyst: JXL

Data Type: Original

Replicate Data: 1202039377|951590|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.109	2.109	0.0273	0.1243	0.0276	12:31:33	Yes
2	2.116	2.116	0.0274	0.1251	0.0277	12:32:03	Yes
Mean:	2.112	2.112	0.0273				
SD:	0.005	0.005	0.0001				
%RSD:	0.216	0.216	0.21				

Sequence No.: 121

Autosampler Location: 103

Sample ID: 1202039376|951590|5

Date Collected: 2/22/2010 12:32:24

Analyst: JXL

Data Type: Original

Replicate Data: 1202039376|951590|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.039	-0.039	-0.0000	0.0016	0.0003	12:33:15	Yes
2	-0.045	-0.045	-0.0001	0.0009	0.0002	12:33:45	Yes
Mean:	-0.042	-0.042	-0.0000				
SD:	0.004	0.004	0.0001				
%RSD:	9.835	9.835	108.28				

Mean: 0.192 0.192 0.0029
SD: 0.000 0.000 0.0000
%RSD: 0.083 0.083 0.07

Sequence No.: 127

Autosampler Location: 109

Sample ID: 246336003|951598|1

Date Collected: 2/22/2010 12:42:37

Analyst: JXL

Data Type: Original

Replicate Data: 246336003|951598|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.183	0.183	0.0028	0.0143	0.0031	12:43:29	Yes
2	0.183	0.183	0.0028	0.0139	0.0031	12:43:59	Yes
Mean:	0.183	0.183	0.0028				
SD:	0.000	0.000	0.0000				
%RSD:	0.080	0.080	0.07				

Sequence No.: 128

Autosampler Location: 110

Sample ID: 246336004|951598|1

Date Collected: 2/22/2010 12:44:20

Analyst: JXL

Data Type: Original

Replicate Data: 246336004|951598|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.175	0.175	0.0027	0.0135	0.0030	12:45:11	Yes
2	0.172	0.172	0.0027	0.0133	0.0030	12:45:41	Yes
Mean:	0.174	0.174	0.0027				
SD:	0.002	0.002	0.0000				
%RSD:	1.074	1.074	0.88				

Sequence No.: 129

Autosampler Location: 111

Sample ID: 246336005|951598|1

Date Collected: 2/22/2010 12:46:02

Analyst: JXL

Data Type: Original

Replicate Data: 246336005|951598|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.116	0.116	0.0020	0.0105	0.0023	12:46:54	Yes
2	0.110	0.110	0.0019	0.0092	0.0022	12:47:24	Yes
Mean:	0.113	0.113	0.0019				
SD:	0.004	0.004	0.0001				
%RSD:	3.562	3.562	2.66				

Sequence No.: 130

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/22/2010 12:47:45

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.237	5.237	0.0670	0.3056	0.0673	12:48:35	Yes
2	5.224	5.224	0.0668	0.3039	0.0671	12:49:05	Yes
Mean:	5.231	5.231	0.0669				
SD:	0.009	0.009	0.0001				
%RSD:	0.172	0.172	0.17				

QC value within limits for Hg 253.7 Recovery = 104.62%
All analyte(s) passed QC.

Sequence No.: 131

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/22/2010 12:49:24

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.056	-0.056	-0.0002	-0.0003	0.0001	12:50:15	Yes
2	-0.052	-0.052	-0.0002	0.0005	0.0001	12:50:45	Yes
Mean:	-0.054	-0.054	-0.0002				
SD:	0.003	0.003	0.0000				
%RSD:	5.414	5.414	18.81				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 132
Sample ID: 246336006|951598|1
Analyst: JXL

Autosampler Location: 112
Date Collected: 2/22/2010 12:51:04
Data Type: Original

Replicate Data: 246336006|951598|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.115	0.115	0.0019	0.0104	0.0023	12:51:56	Yes
2	0.113	0.113	0.0019	0.0097	0.0022	12:52:26	Yes
Mean:	0.114	0.114	0.0019				
SD:	0.001	0.001	0.0000				
%RSD:	0.825	0.825	0.62				

=====

Sequence No.: 133
Sample ID: 246336007|951598|1
Analyst: JXL

Autosampler Location: 113
Date Collected: 2/22/2010 12:52:47
Data Type: Original

Replicate Data: 246336007|951598|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.140	0.140	0.0023	0.0120	0.0026	12:53:39	Yes
2	0.134	0.134	0.0022	0.0114	0.0025	12:54:09	Yes
Mean:	0.137	0.137	0.0022				
SD:	0.004	0.004	0.0001				
%RSD:	3.085	3.085	2.41				

=====

Sequence No.: 134
Sample ID: 246336008|951598|1
Analyst: JXL

Autosampler Location: 114
Date Collected: 2/22/2010 12:54:29
Data Type: Original

Replicate Data: 246336008|951598|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.038	0.038	0.0010	0.0060	0.0013	12:55:22	Yes
2	0.037	0.037	0.0010	0.0057	0.0013	12:55:52	Yes
Mean:	0.038	0.038	0.0010				
SD:	0.001	0.001	0.0000				
%RSD:	2.468	2.468	1.22				

=====

Sequence No.: 135
Sample ID: 246336009|951598|1
Analyst: JXL

Autosampler Location: 115
Date Collected: 2/22/2010 12:56:12
Data Type: Original

Replicate Data: 246336009|951598|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.193	0.193	0.0029	0.0143	0.0032	12:57:05	Yes
2	0.196	0.196	0.0030	0.0148	0.0033	12:57:34	Yes
Mean:	0.194	0.194	0.0030				
SD:	0.002	0.002	0.0000				
%RSD:	1.158	1.158	0.97				

Miscellaneous

Prep LogBook

Analyst: LYH1
 Batch: 950254
 Lab SOP: GL-MA-E-009 REV# 19

Verified by:

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202036254	U1062540-1	.5	g
MS	1202036252	U1100120-01	.25	mL
MS	1202036252	U1100120-06	.25	mL
MSD	1202036253	U1100120-01	.25	mL
MSD	1202036253	U1100120-06	.25	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202036249		SW846 3050B	13-FEB-2010 08:40	<2	0.5 g	50 mL	100	SOIL
LCS	1202036254		SW846 3050B	13-FEB-2010 08:40	<2	0.512 g	50 mL	97.65625	SOIL
SAMPLE	246315001		SW846 3050B	13-FEB-2010 08:40	<2	0.503 g	50 mL	99.40358	SOIL
SAMPLE	246315002		SW846 3050B	13-FEB-2010 08:40	<2	0.522 g	50 mL	95.78544	SOIL
SAMPLE	246315003		SW846 3050B	13-FEB-2010 08:40	<2	0.507 g	50 mL	98.61933	SOIL
SAMPLE	246322001		SW846 3050B	13-FEB-2010 08:40	<2	0.526 g	50 mL	95.05703	SOIL
DUP	1202036250	246322001	SW846 3050B	13-FEB-2010 08:40	<2	0.5 g	50 mL	100	SOIL
SDILT	1202036251	246322001	SW846 3050B	13-FEB-2010 08:40	<2	0.526 g	50 mL	95.05703	SOIL
MS	1202036252	246322001	SW846 3050B	13-FEB-2010 08:40	<2	0.525 g	50 mL	95.2381	SOIL
MSD	1202036253	246322001	SW846 3050B	13-FEB-2010 08:40	<2	0.5 g	50 mL	100	SOIL
SAMPLE	246322002		SW846 3050B	13-FEB-2010 08:40	<2	0.502 g	50 mL	99.60159	SOIL
SAMPLE	246322003		SW846 3050B	13-FEB-2010 08:40	<2	0.5 g	50 mL	100	SOIL
SAMPLE	246322004		SW846 3050B	13-FEB-2010 08:40	<2	0.525 g	50 mL	95.2381	SOIL
SAMPLE	246322005		SW846 3050B	13-FEB-2010 08:40	<2	0.517 g	50 mL	96.7118	SOIL
SAMPLE	246322006		SW846 3050B	13-FEB-2010 08:40	<2	0.5 g	50 mL	100	SOIL
SAMPLE	246322007		SW846 3050B	13-FEB-2010 08:40	<2	0.502 g	50 mL	99.60159	SOIL
SAMPLE	246322008		SW846 3050B	13-FEB-2010 08:40	<2	0.503 g	50 mL	99.40358	SOIL
SAMPLE	246322009		SW846 3050B	13-FEB-2010 08:40	<2	0.525 g	50 mL	95.2381	SOIL

Comments

Reagent/Solvent Lot ID	Amount	Description
1265209	10 mL	HYDROCHLORIC ACID
1100721TCLP	1.25 mL	Nitric Acid CONC.

Prep LogBook

Analyst: FGA Verified by: _____

Batch: 950260

Lab SOP: GL-MA-E-009 REV# 19

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202036271	U1090402-05	.25	mL
LCS	1202036271	U1062540-MS	.503	g
MS	1202036269	U1091015-A	.5	mL
MS	1202036269	U1091015-B	.5	mL
MS	1202036269	U1090402-05	.25	mL
MSD	1202036270	U1091015-A	.5	mL
MSD	1202036270	U1091015-B	.5	mL
MSD	1202036270	U1090402-05	.25	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202036266		SW846 3050B	15-FEB-2010 13:30	0.508 g	50 mL	98.4252	SOIL
LCS	1202036271		SW846 3050B	15-FEB-2010 13:30	0.503 g	50 mL	99.40358	SOIL
SAMPLE	246315001		SW846 3050B	15-FEB-2010 13:30	0.525 g	50 mL	95.2381	SOIL
SAMPLE	246315002		SW846 3050B	15-FEB-2010 13:30	0.5 g	50 mL	100	SOIL
SAMPLE	246315003		SW846 3050B	15-FEB-2010 13:30	0.545 g	50 mL	91.74312	SOIL
SAMPLE	246322001		SW846 3050B	15-FEB-2010 13:30	0.514 g	50 mL	97.27626	SOIL
DUP	1202036267	246322001	SW846 3050B	15-FEB-2010 13:30	0.5 g	50 mL	100	SOIL
SDILT	1202036268	246322001	SW846 3050B	15-FEB-2010 13:30	0.514 g	50 mL	97.27626	SOIL
MS	1202036269	246322001	SW846 3050B	15-FEB-2010 13:30	0.5 g	50 mL	100	SOIL
MSD	1202036270	246322001	SW846 3050B	15-FEB-2010 13:30	0.512 g	50 mL	97.65625	SOIL
SAMPLE	246322002		SW846 3050B	15-FEB-2010 13:30	0.525 g	50 mL	95.2381	SOIL
SAMPLE	246322003		SW846 3050B	15-FEB-2010 13:30	0.508 g	50 mL	98.4252	SOIL
SAMPLE	246322005		SW846 3050B	15-FEB-2010 13:30	0.5 g	50 mL	100	SOIL
SAMPLE	246322006		SW846 3050B	15-FEB-2010 13:30	0.505 g	50 mL	99.0099	SOIL
SAMPLE	246322007		SW846 3050B	15-FEB-2010 13:30	0.551 g	50 mL	90.7441	SOIL
SAMPLE	246322008		SW846 3050B	15-FEB-2010 13:30	0.511 g	50 mL	97.84736	SOIL
SAMPLE	246322009		SW846 3050B	15-FEB-2010 13:30	0.513 g	50 mL	97.46589	SOIL

Comments

Reagent/Solvent Lot ID	Amount	Description
1250038-02	1.5 mL	Hydrogen Peroxide 30%
1268732	5 mL	Nitric Acid CONC.

Prep LogBook

Analyst: LYH1
 Batch: 960899
 Lab SOP: GL-MA-E-009 REV# 19

Verified by: _____

Type: LCS
 Sample Id: 1202061000
 Lot. Id: U1062540-MS
 Spike Amount: .517
 Spike Units: g

MS
 Sample Id: 1202060998
 Lot. Id: U1090827-A
 Spike Amount: .5
 Spike Units: mL

MS
 Sample Id: 1202060998
 Lot. Id: U1090827-B
 Spike Amount: .5
 Spike Units: mL

MSD
 Sample Id: 1202060999
 Lot. Id: U1090827-A
 Spike Amount: .5
 Spike Units: mL

MSD
 Sample Id: 1202060999
 Lot. Id: U1090827-B
 Spike Amount: .5
 Spike Units: mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202060995		SW846 3050B	04-MAR-2010 09:20	<2	0.543 g	50 mL	92.08103	SOIL
LCS	1202061000		SW846 3050B	04-MAR-2010 09:20	<2	0.517 g	50 mL	96.7118	SOIL
SAMPLE	246322004		SW846 3050B	04-MAR-2010 09:20	<2	0.513 g	50 mL	97.46589	SOIL
DUP	1202060996	246322004	SW846 3050B	04-MAR-2010 09:20	<2	0.517 g	50 mL	96.7118	SOIL
SDILT	1202060997	246322004	SW846 3050B	04-MAR-2010 09:20	<2	0.513 g	50 mL	97.46589	SOIL
MS	1202060998	246322004	SW846 3050B	04-MAR-2010 09:20	<2	0.509 g	50 mL	98.23183	SOIL
MSD	1202060999	246322004	SW846 3050B	04-MAR-2010 09:20	<2	0.547 g	50 mL	91.40768	SOIL

Reagent/Solvent Lot ID: 1250038-02
 Amount: 1.5 mL
 Description: Hydrogen Peroxide 30%
 1277919
 Amount: 5 mL
 Description: Nitric Acid CONC.

Comments

Prep LogBook

Analyst: TXB3 Verified by: _____

Batch: 951589

Lab SOP: GL-MA-E-010 REV# 23

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202039373	U1031809A	2	g
MS	1202039375	WHG100219-14	3	mL
MSD	1202039377	WHG100219-14	3	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202039372		SW846 7471A Prep	19-FEB-2010 12:25	0.539 g	30 mL	55.65863	SOIL
LCS	1202039373		SW846 7471A Prep	19-FEB-2010 12:25	0.2 g	30 mL	150	SOIL
SAMPLE	246315001		SW846 7471A Prep	19-FEB-2010 12:25	0.564 g	30 mL	53.19149	SOIL
SAMPLE	246315002		SW846 7471A Prep	19-FEB-2010 12:25	0.58 g	30 mL	51.72414	SOIL
SAMPLE	246315003		SW846 7471A Prep	19-FEB-2010 12:25	0.523 g	30 mL	57.36138	SOIL
SAMPLE	246322001		SW846 7471A Prep	19-FEB-2010 12:25	0.524 g	30 mL	57.25191	SOIL
SAMPLE	246322002		SW846 7471A Prep	19-FEB-2010 12:25	0.589 g	30 mL	50.93379	SOIL
SAMPLE	246322003		SW846 7471A Prep	19-FEB-2010 12:25	0.6 g	30 mL	50	SOIL
SAMPLE	246322004		SW846 7471A Prep	19-FEB-2010 12:25	0.523 g	30 mL	57.36138	SOIL
SAMPLE	246322005		SW846 7471A Prep	19-FEB-2010 12:25	0.54 g	30 mL	55.55556	SOIL
SAMPLE	246322006		SW846 7471A Prep	19-FEB-2010 12:25	0.526 g	30 mL	57.03422	SOIL
SAMPLE	246322007		SW846 7471A Prep	19-FEB-2010 12:25	0.568 g	30 mL	52.8169	SOIL
SAMPLE	246322008		SW846 7471A Prep	19-FEB-2010 12:25	0.532 g	30 mL	56.39098	SOIL
SAMPLE	246322009		SW846 7471A Prep	19-FEB-2010 12:25	0.588 g	30 mL	51.02041	SOIL
SAMPLE	246325001		SW846 7471A Prep	19-FEB-2010 12:25	0.508 g	30 mL	59.05512	SOIL
SAMPLE	246325002		SW846 7471A Prep	19-FEB-2010 12:25	0.521 g	30 mL	57.58157	SOIL
SAMPLE	246325003		SW846 7471A Prep	19-FEB-2010 12:25	0.591 g	30 mL	50.76142	SOIL
SAMPLE	246325004		SW846 7471A Prep	19-FEB-2010 12:25	0.534 g	30 mL	56.17978	SOIL
SAMPLE	246325005		SW846 7471A Prep	19-FEB-2010 12:25	0.526 g	30 mL	57.03422	SOIL
SAMPLE	246325006		SW846 7471A Prep	19-FEB-2010 12:25	0.538 g	30 mL	55.76208	SOIL
SAMPLE	246338001		SW846 7471A Prep	19-FEB-2010 12:25	0.566 g	30 mL	53.00353	SOIL
DUP	1202039374	246338001	SW846 7471A Prep	19-FEB-2010 12:25	0.522 g	30 mL	57.47126	SOIL
MS	1202039375	246338001	SW846 7471A Prep	19-FEB-2010 12:25	0.539 g	30 mL	55.65863	SOIL
MSD	1202039377	246338001	SW846 7471A Prep	19-FEB-2010 12:25	0.536 g	30 mL	55.97015	SOIL
SDILT	1202039376	246338001	SW846 7471A Prep	19-FEB-2010 12:25	0.566 g	30 mL	53.00353	SOIL
SAMPLE	246338002		SW846 7471A Prep	19-FEB-2010 12:25	0.525 g	30 mL	57.14286	SOIL

Comments Sample 246338001 is a rocky moist brown soil.
Digestion Start Date: 19-FEB-10 12:25
Digestion End Date: 19-FEB-10 12:55

GEL Laboratories LLC

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Prep LogBook

1255532-C		
WHG100219-07	2 mL	Hg reducing agent
WHG100219-08	30 uL	Mercury Working Standard 1st Source CAL S 0.2/CRA
WHG100219-11	75 uL	Mercury Working Standard 1st Source CAL S 0.5
WHG100219-09	1.5 mL	Mercury Working 1st Source CAL S 10.0
WHG100219-10	300 uL	Mercury Working 1st Source CAL S 2.0
WHG100219-12	750 uL	Mercury Working 1st Source CAL S 5.0/CCV
		Mercury Working 2nd Source S 5.0/ICV

DATA EXCEPTION REPORT

Mo.Day Yr. 04-MAR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: ICP	Test / Method: SW846 3050B/6010B	Matrix Type: Solid	Client Code: LANL
Batch ID: 950257	Sample Numbers: See Below		

Potentially affected work order(s)(SDG): 246315(10-1601),246322(10-1565)

Application Issues:

Failed Recovery for MS/PS
Failed RPD for MS/MSD, or PS/PSD
Failed RPD for DUP
Failed Recovery for MSD/PSD

**Specification and Requirements
Exception Description:**

1. Failed Recovery for MS/PS:

QC 1202036252MS

2. Failed RPD for DUP:

QC 1202036250DUP

3. Failed RPD for MS/MSD, or PS/PSD:

QC 1202036253MSD

4. Failed Recovery for MSD/PSD:

QC 1202036253MSD

DER Disposition:

1. The matrix spike recovery failed outside of the control limits for barium,manganese and sodium due to possible matrix interferences and/or sample non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.
2. The sample and sample duplicate % RPD failed outside the control limits for barium,calcium,copper,manganese and vanadium due to possible sample non-homogeneity and/or matrix interference. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.
3. The matrix spike and matrix spike duplicate % RPD failed outside of the control limits for chromium,copper,iron,magnesium and manganese due to possible matrix interferences and/or sample non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.
4. The matrix spike duplicate recovery failed outside of the control limits for barium,chromium,copper,magnesium,manganese and sodium due to possible matrix interferences and/or sample non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.

Originator's Name:

Helen Camello 04-MAR-10

Data Validator/Group Leader:

Louise Smith 04-MAR-10

DATA EXCEPTION REPORT

Mo. Day Yr.
05-MAR-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:
950262

Sample Numbers:
See Below

Potentially affected work order(s)(SDG): 246315(10-1601),246322(10-1565)

Application Issues:

Failed Recovery for MS/PS

Failed RPD for MS/MSD, or PS/PSD

Failed Recovery for MSD/PSD

**Specification and Requirements
Exception Description:**

1. Failed Recovery for MS/PS:

QC 1202036269MS

2. Failed RPD for MS/MSD, or PS/PSD:

QC 1202036270MSD

3. Failed Recovery for MSD/PSD:

QC 1202036270MSD

DER Disposition:

The matrix spike recovery failed outside of the control limits for Li due to possible matrix interferences and/or non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.

The matrix spike duplicate recovery failed outside of the control limits for Ni due to possible matrix interferences and/or non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.

The matrix spike and matrix spike duplicate % RPD failed outside of the control limits for Li and Ni due to possible matrix interferences and/or sample non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.

Originator's Name:

Elizabeth Janssen 05-MAR-10

Data Validator/Group Leader:

Rose Jenkins 06-MAR-10

DATA EXCEPTION REPORT

Mo./Day Yr. 06-MAR-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: 960900	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 246322(10-1565)			
Application Issues: Failed Recovery for MS/PS Failed RPD for MS/MSD, or PS/PSD Failed RPD for DUP Failed Recovery for MSD/PSD			
Specification and Requirements Exception Description:		DER Disposition:	
1. Failed Recovery for MS/PS: QC 1202060998MS 2. Failed RPD for DUP: QC 1202060996DUP 3. Failed RPD for MS/MSD, or PS/PSD: QC 1202060999MSD 4. Failed Recovery for MSD/PSD: QC 1202060999MSD		The matrix spike failed outside of the control limits for Ni and Se. The matrix spike duplicate failed outside of the control limits for Se. The matrix spike duplicate %RPD failed outside of the control limits for Ni. The sample and sample duplicate % RPD failed outside the control limits for Ni. These failures were due to possible matrix interferences and/or sample non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.	

Originator's Name:

Paul Boyd

06-MAR-10

Data Validator/Group Leader:

Jamie Johnson

06-MAR-10

Standard Logbook

Serial ID: UHG1167639-01 **Opened:** 13-AUG-09 **Amount :** 125 mL
Name: MHGSTOCK1 **Received:** 13-AUG-09 **Catalog Number :** PLHG4-2Y
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 15-37HG
Employee: Bryan Davis **Solvent :** 10% HNO3
Supplier: Spex
Description: Mercury Source Standard #1 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	1000 mg/L		

Serial ID: UHG1167641-02 **Opened:** 13-AUG-09 **Amount :** 100 mL
Name: MHGSTOCK2 **Received:** 13-AUG-09 **Catalog Number :** AHG1KN-100
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 4905530
Employee: Bryan Davis **Solvent :** 3% HNO3
Supplier: Ricca Chemical Company
Description: Mercury Source Standard #2 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	999.7 mg/L		

Serial ID: UI031809A **Opened:** 18-MAR-09 **Catalog Number :** 540
Name: METALSOILSRM **Received:** 18-MAR-09 **Lot Number :** D061-540
Type: Source Material **Expires:** 10-OCT-10
Employee: Jamie Johnson
Supplier: ERA
Description: Metals LCS Soil SRM
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10600 mg/kg	Antimony	126 mg/kg
Arsenic	225 mg/kg	Barium	565 mg/kg
Beryllium	162 mg/kg	Boron	107 mg/kg
Cadmium	69.1 mg/kg	Calcium	10000 mg/kg
Chromium	124 mg/kg	Cobalt	115 mg/kg
Copper	66.7 mg/kg	Iron	17600 mg/kg
Lead	223 mg/kg	Magnesium	4260 mg/kg
Manganese	368 mg/kg	Mercury	5.15 mg/kg
Molybdenum	107 mg/kg	Nickel	172 mg/kg
Potassium	4090 mg/kg	Selenium	147 mg/kg
Silver	35.2 mg/kg	Sodium	538 mg/kg
Strontium	117 mg/kg	Thallium	173 mg/kg
Tin	164 mg/kg	Titanium	381 mg/kg
Vanadium	93.9 mg/kg	Zinc	349 mg/kg

Standard Logbook

Serial ID: UI062540-I **Opened:** 12-JUN-09 **Amount :** 80 g
Name: ICP SOIL SRM **Received:** 12-JUN-09 **Lot Number :** D062-540
Type: Source Material **Expires:** 31-JAN-12
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICP/Hg
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	173 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.7 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Magnesium	4000 mg/kg
Manganese	558 mg/kg	Mercury	8.46 mg/kg
Molybdenum	48.6 mg/kg	Nickel	134 mg/kg
Phosphorous	736 mg/kg	Potassium	4300 mg/kg
Selenium	286 mg/kg	Silica	2591 mg/kg
Silicon	1211 mg/kg	Silver	30.1 mg/kg
Sodium	1020 mg/kg	Strontium	227 mg/kg
Sulfur	385 mg/kg	Thallium	121 mg/kg
Tin	104 mg/kg	Titanium	462 mg/kg
Vanadium	115 mg/kg	Zinc	594 mg/kg

Serial ID: UI062540-MS **Opened:** 12-JUN-09 **Lot Number :** D062-540
Name: ICPMS SOIL SRM **Received:** 12-JUN-09
Type: Source Material **Expires:** 31-JAN-12
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICPMS
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	67.4 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.6 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Lithium	10.6 mg/kg
Magnesium	4000 mg/kg	Manganese	558 mg/kg
Mercury	8.46 mg/kg	Molybdenum	48.6 mg/kg
Nickel	134 mg/kg	Phosphorous	755 mg/kg
Potassium	4300 mg/kg	Selenium	286 mg/kg
Silver	30.1 mg/kg	Sodium	1020 mg/kg

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Strontium	227 mg/kg	Thallium	121 mg/kg
Thorium	9.84 mg/kg	Tin	104 mg/kg
Titanium	462 mg/kg	Uranium	2.13 mg/kg
Uranium-235	.0153 mg/kg	Uranium-238	2.11 mg/kg
Vanadium	92.4 mg/kg	Zinc	594 mg/kg
Zirconium	10.6 mg/kg		

Serial ID: UI090402-05 **Opened:** 02-APR-09 **Amount :** .5 mL
Name: ICP-MS Rare Earth SPIKE **Received:** 01-APR-09 **Catalog Number :** 160203-01-01
Type: Source Material **Expires:** 02-APR-10 **Lot Number :** 1015610
Employee: Francena Armstrong **Solvent :** 2% HNO3
Supplier: Q2SI
Description: ICPMS Rare Earth elements LCS standard
Comments: None

Analyte	Concentration	Analyte	Concentration
Cerium	10 mg/L	Cesium	10 mg/L
Europium	10 mg/L	Lanthanum	10 mg/L
Neodymium	10 mg/L	Praseodymium	10 mg/L
Ruthenium	10 mg/L	Samarium	10 mg/L
Terbium	10 mg/L		

Serial ID: UI090421-40 **Opened:** 09-OCT-09 **Amount :** 250 mL
Name: TRACE ICP Na-1000SOUR **Received:** 21-APR-09 **Catalog Number :** HP100052-1
Type: Source Material **Expires:** 09-OCT-10 **Lot Number :** 0830227
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: ENVIRONMENTAL EXPRESS
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI090422-40 **Opened:** 04-MAY-09 **Amount :** 500 mL
Name: TRACE ICP ICSA SOLN A **Received:** 22-APR-09 **Catalog Number :** 160005-01-03
Type: Source Material **Expires:** 04-MAY-10 **Lot Number :** 1013357
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: o2si
Description: TRACE ICP ICSA SOLN A mg/L +/- 0.5% IN 5% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Calcium	5000 mg/L
Iron	2000 mg/L	Magnesium	5000 mg/L

Standard Logbook

Serial ID: UI090612-02 **Opened:** 12-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 12-JUN-09 **Lot Number :** 1016377
Type: Source Material **Expires:** 12-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

Serial ID: UI090701-09 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #1 **Received:** 01-JUL-09 **Catalog Number :** 160044-09-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016477
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: O2SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UI090701-10 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #2 **Received:** 01-JUL-09 **Catalog Number :** 160044-08-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016476
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: O2SI
Description: ICPMS CRDL Soln #2
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Molybdenum	.5 mg/L
Silver	1 mg/L	Tin	2 mg/L
Titanium	10 mg/L	Tungsten	5 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Zirconium	2 mg/L		

Serial ID: UI090701-40 **Opened:** 01-JUL-09 **Amount :** 500 mL
Name: TRACE ICP Stock PQL St **Received:** 30-JUN-09 **Catalog Number :** 160543-01-03
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016475
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3+TrHF
Supplier: 02si
Description: TRACE ICP Stock PQL Standard
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L
Sulfur	50 mg/L	Thallium	10 mg/L
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: UI090827-A **Opened:** 27-AUG-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 27-AUG-09 **Lot Number :** 1015749
Type: Source Material **Expires:** 27-AUG-10
Employee: Francena Armstrong
Supplier: 02si
Description: ICP-MS Spike for soil products.
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	20 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	10 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Serial ID: UI090827-B **Opened:** 27-AUG-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 27-AUG-09 **Lot Number :** 1015749
Type: Source Material **Expires:** 27-AUG-10
Employee: Francena Armstrong
Supplier: 02si
Description: ICP-MS Spike for Soil Products
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silicon	200 mg/L	Silver	5 mg/L
Tin	5 mg/L	Zirconium	5 mg/L

Serial ID: UI090925-40 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX38-500N
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909129
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1A 5%HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Arsenic	100 mg/L
Barium	100 mg/L	Boron	100 mg/L
Cadmium	100 mg/L	Calcium	1000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	1000 mg/L
Lead	100 mg/L	Phosphorous	500 mg/L
Potassium	500 mg/L	Selenium	500 mg/L
Sodium	500 mg/L	Strontium	100 mg/L

Serial ID: UI090925-41 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX39-500B
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909130
Employee: Helen Camello **Solvent :** 5%HNO3,TR.HF
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1B

Standard Logbook

Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L
Magnesium	1000 mg/L	Manganese	100 mg/L
Molybdenum	100 mg/L	Nickel	100 mg/L
Silver	50 mg/L	Sulfur	500 mg/L
Thallium	100 mg/L	Tin	100 mg/L
Titanium	100 mg/L	Uranium	100 mg/L
Vanadium	100 mg/L	Zinc	100 mg/L

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3%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: 02si
Description: ICP-MS Spike for soil products.
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	20 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	10 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: 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: 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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: UI091217-08 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-DEC-09 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018211
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln C - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: UI091217-12 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 17-DEC-09 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018212
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	2 mg/L	Barium	2 mg/L
Beryllium	2 mg/L	Boron	2 mg/L
Cadmium	2 mg/L	Chromium	2 mg/L
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

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

Standard Logbook

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: UI100120-01 **Opened:** 20-JAN-10 **Lot Number :** 1018095
Name: METALSPIKE-1 **Received:** 20-JAN-10
Type: Source Material **Expires:** 20-JAN-11
Employee: Bryan Davis
Supplier: QS2I
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: UI100120-06 **Opened:** 20-JAN-10 **Lot Number :** 1018096
Name: METALSPIKE-2 **Received:** 20-JAN-10
Type: Source Material **Expires:** 20-JAN-11
Employee: Bryan Davis
Supplier: QS2I
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

Standard Logbook

Serial ID: UI100210-48 **Opened:** 11-FEB-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 10-FEB-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 04-MAR-10 **Lot Number :** 1018807
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Interferent Check Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 UG/L	Calcium	500000 UG/L
Iron	200000 UG/L	Magnesium	500000 UG/L

Serial ID: UI100219-11 **Opened:** 19-FEB-10 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 19-FEB-10 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 19-FEB-11 **Lot Number :** 1018321
Employee: Paul Boyd **Solvent :** 2% HNO3
Supplier: 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: UI100219-60 **Opened:** 19-FEB-10 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 19-FEB-10 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 19-FEB-11 **Lot Number :** 1018890
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
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: UI100219-61 **Opened:** 19-FEB-10 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 19-FEB-10 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 19-FEB-11 **Lot Number :** 1018890
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	25 mg/L	Molybdenum	100 mg/L
Silver	25 mg/L	Tin	100 mg/L
Tungsten	100 mg/L	Zirconium	50 mg/L

Serial ID: UI100226-40 **Opened:** 26-FEB-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 25-FEB-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 1018981
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 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
Silver	1000 ug/L	Strontium	10000 ug/L
Sulfur	50000 ug/L	Thallium	10000 ug/L
Tin	10000 ug/L	Titanium	10000 ug/L
Vanadium	10000 ug/L	Zinc	15000 ug/L

Standard Logbook

Serial ID: UI100226-41 **Opened:** 26-FEB-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 25-FEB-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 1018981
Employee: Helen Camello **Solvent :** +/-0.5%ln2%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: UMS100226-01 **Opened:** 26-FEB-10 **Amount :** 250 mL
Name: ICPMSCaSPIKEB **Received:** 26-FEB-10 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-104JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UMS100226-02 **Opened:** 26-FEB-10 **Catalog Number :** ZGEL-102-250
Name: ICPMSCaSPIKEA **Received:** 26-FEB-10 **Lot Number :** 21-103JB
Type: Source Material **Expires:** 26-FEB-11
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Phosphorous	1000 mg/L	Potassium	1000 mg/L
Sodium	1000 mg/L		

Standard Logbook

Serial ID: UMS100226-03 **Opened:** 26-FEB-10 **Amount :** 250 ml
Name: ICPMSCalSPIKEC **Received:** 26-FEB-10 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-102JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

Serial ID: IHG100219-01 **Opened:** 19-FEB-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 19-FEB-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 20-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: IHG100219-02 **Opened:** 19-FEB-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 19-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Intermediate **Expires:** 20-FEB-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 2nd Source 200 ug/L
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167641-02	Mercury	999.7 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WHG100219-07 **Opened:** 19-FEB-10 **Pipet Id :** Hq1289245
Name: MHGWORKCALS0.2CRA **Received:** 19-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 26-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.
IHG100219-01	Mercury	200 ug/L	30 uL	30 mL	.2 ug/L

Standard Logbook

Serial ID: WHG100219-08 **Opened:** 19-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS0.5 **Received:** 19-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 26-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.
IHG100219-01	Mercury	200 ug/L	75 uL	30 mL	.5 ug/L

Serial ID: WHG100219-09 **Opened:** 19-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS2.0 **Received:** 19-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 26-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.
IHG100219-01	Mercury	200 ug/L	300 uL	30 mL	2 ug/L

Serial ID: WHG100219-10 **Opened:** 19-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS5.0CCV **Received:** 19-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 26-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.
IHG100219-01	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100219-11 **Opened:** 19-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS10.0 **Received:** 19-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 26-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.
IHG100219-01	Mercury	200 ug/L	1.5 mL	30 mL	10 ug/L

Standard Logbook

Serial ID: WHG100219-12 **Opened:** 19-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKS5.0ICV **Received:** 19-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 26-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.
IHG100219-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100219-14 **Opened:** 19-FEB-10 **Pipet Id :** Hg1289245
Name: MHGSOILMSSPIKE **Received:** 19-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 26-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: WI100302-42 **Opened:** 02-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 03-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1276974
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.
WI100302-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100302-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100302-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100302-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100302-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100302-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100302-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100302-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100302-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100302-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100302-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100302-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100302-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100302-43 **Opened:** 02-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 03-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1276974
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100302-44 **Opened:** 02-MAR-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 03-MAR-10 **Solvent :** 3%HCL and 1 %HNO3-1276974
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100302-45 **Opened:** 02-MAR-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 03-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1276974
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L
UI090422-40	Aluminum	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Calcium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Iron	2000 mg/L	5 mL	500 mL	20000 UG/L
UI090422-40	Magnesium	5000 mg/L	5 mL	500 mL	50000 UG/L

Serial ID: WI100302-46 **Opened:** 02-MAR-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 03-MAR-10 **Solvent :** 3%HCL AND 1%HNO3-1276974
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100302-47 **Opened:** 02-MAR-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 03-MAR-10 **Solvent :** 3%HCL & 1%HNO3-1276974
Employee: Helen Camello
Supplier: 02si
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100303-04 **Opened:** 03-MAR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 03-MAR-10 **Balance Id :** 4025216
Type: Working **Expres:** 04-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1276824
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100226-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100303-04A **Opened:** 03-MAR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 03-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 04-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100303-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100303-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100303-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100303-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100303-04B **Opened:** 03-MAR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 03-MAR-10 **Balance Id :** 40245216
Type: Working **Expires:** 04-MAR-10 **Pipet Id :** 1758088
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl- 1276824
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100226-01	Vanadium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5	50 mL	100 ug/l

Serial ID: WMS100303-05 **Opened:** 03-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 03-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 04-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
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
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100303-06 **Opened:** 03-MAR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 03-MAR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 04-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100303-07 **Opened:** 03-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 03-MAR-10 **Lot Number :** 1010773
Type: Working **Expires:** 04-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1276824
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100303-08 **Opened:** 03-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 03-MAR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 04-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100303-70 **Opened:** 03-MAR-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 03-MAR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 04-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Paul Boyd
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100219-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100219-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI100219-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100219-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100219-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100219-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100219-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100219-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI100219-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI100219-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: WMS100304-04 **Opened:** 04-MAR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 04-MAR-10 **Balance Id :** 4025216
Type: Working **Expires:** 05-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1276824
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100226-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100304-04A **Opened:** 04-MAR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 04-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 05-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100303-04B	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04B	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100303-04B	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04B	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100303-04B	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04B	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04B	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04B	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04B	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04B	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100303-04B	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100304-05 **Opened:** 04-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 04-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 05-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
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
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100304-06 **Opened:** 04-MAR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 04-MAR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 05-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100304-07 **Opened:** 04-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 04-MAR-10 **Lot Number :** 1010773
Type: Working **Expires:** 05-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1276824
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100304-08 **Opened:** 04-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 04-MAR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 05-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
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
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100305-04 **Opened:** 05-MAR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 05-MAR-10 **Balance Id :** 4025216
Type: Working **Expires:** 06-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1276824
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Serial ID: WMS100305-04A **Opened:** 05-MAR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 05-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 06-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100305-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100305-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100305-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100305-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100305-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100305-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100305-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100305-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100305-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100305-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100305-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Serial ID: WMS100305-05 **Opened:** 05-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 05-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 06-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
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
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: WMS100305-06 **Opened:** 05-MAR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 05-MAR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 06-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Standard Logbook

Serial ID: WMS100305-07 **Opened:** 05-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 05-MAR-10 **Lot Number :** 1010773
Type: Working **Expires:** 06-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1276824
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100305-08 **Opened:** 05-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 05-MAR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 06-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100305-70 **Opened:** 05-MAR-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 05-MAR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 06-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Paul Boyd
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100219-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100219-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI100219-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100219-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100219-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100219-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100219-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100219-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI100219-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI100219-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: 100202 **Opened:** 02-FEB-10 **Lot Number :** 200930201
Name: I-HCL **Received:** 02-FEB-10
Type: Reagent/Solvent **Expires:** 02-FEB-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1100721TCLP **Opened:** 16-APR-09 **Lot Number :** H02026 L
Name: I-HNO3 **Received:** 02-APR-09
Type: Reagent/Solvent **Expires:** 02-APR-10
Employee: Clifford Postell
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1156689-A **Opened:** 20-JUL-09 **Lot Number :** 41226920
Name: B-KMnO4(VWR)-MER **Received:** 20-JUL-09
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin **Verified:** 07-AUG-07
Supplier: VWR
Description: Potassium Permanganate
Comments: None

Standard Logbook

Serial ID: 1228372-A **Opened:** 12-NOV-09 **Lot Number :** 49215936
Name: B-NH2OH.HCl-MER **Received:** 12-NOV-09
Type: Reagent/Solvent **Expires:** 12-NOV-10
Employee: Tara Griffin
Supplier: Fisher Scientific
Description: Hydroxylamine Hydrochloride
Comments: None

Serial ID: 1250038-02 **Opened:** 04-JAN-10 **Lot Number :** ZU74081198 mL
Name: B-H2O2 **Received:** 04-JAN-10
Type: Reagent/Solvent **Expires:** 04-JAN-11
Employee: Bryan Davis
Supplier: EM SCIENCE
Description: Hydrogen Peroxide 30%
Comments: None

Serial ID: 1255532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Serial ID: 1257474-1 **Opened:** 20-JAN-10 **Instrument Id :** MERCURY
Name: B-HNO3-MER **Received:** 20-JAN-10 **Lot Number :** H20053
Type: Reagent/Solvent **Expires:** 20-JAN-11
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID
Comments: None

Serial ID: 1264796-A **Opened:** 04-FEB-10 **Lot Number :** 200930201
Name: B-HCl-MER **Received:** 04-FEB-10
Type: Reagent/Solvent **Expires:** 04-FEB-11
Employee: Tara Griffin
Supplier: Aristar
Description: Hydrochloric Acid Conc.
Comments: None

Standard Logbook

Serial ID: 1264984-C **Opened:** 04-FEB-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 04-FEB-10
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Serial ID: 1265209 **Opened:** 04-FEB-10 **Lot Number :** J02039
Name: I-HCL **Received:** 04-FEB-10 **Preservative_Id :** 5 none
Type: Reagent/Solvent **Expires:** 04-FEB-11
Employee: Bryan Davis
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1268732 **Opened:** 11-FEB-10 **Lot Number :** H12022 L
Name: I-HNO3 **Received:** 11-FEB-10
Type: Reagent/Solvent **Expires:** 11-FEB-11
Employee: Bryan Davis
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1276824 **Opened:** 01-MAR-10 **Solvent :** Type I Water
Name: B-2%HNO3/1%HCl-ICPMS **Received:** 01-MAR-10
Type: Reagent/Solvent **Expires:** 08-MAR-10
Employee: Paul Boyd
Supplier: GEL
Description: 2%HNO3/1%HCl Solution (Type I Water)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
100202	I-HCL	36.5-38.0	90 mL	9 l	N/A
1100721TCLP	I-HNO3	69.0-70.0	180 mL	9 l	N/A

Serial ID: 1276974 **Opened:** 01-MAR-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 25-FEB-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 07-MAR-10 **Solvent :** 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL

Standard Logbook

Description: 3%HCL+1%HNO3 RINSE SOLN.

Comments: None

Serial ID: 1277919

Opened: 02-MAR-10

Lot Number :

J 04043 L

Name: I-HNO3

Received: 02-MAR-10

Type: Reagent/Solvent

Expires: 02-MAR-11

Employee: Francena Armstrong

Supplier: BAKER

Description: Nitric Acid CONC.

Comments: None

Metals Analysis

Case Narrative

**Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1565-1**

Sample Analysis

Sample ID	Client ID
246323001	RE15-10-7344
1202036425	Method Blank (MB) ICP
1202036426	Laboratory Control Sample (LCS)
1202036429	246334001(RE15-10-8328L) Serial Dilution (SD)
1202036427	246334001(RE15-10-8328D) Sample Duplicate (DUP)
1202036428	246334001(RE15-10-8328S) Matrix Spike (MS)
1202036451	Method Blank (MB) ICP-MS
1202036452	Laboratory Control Sample (LCS)
1202036455	246334001(RE15-10-8328L) Serial Dilution (SD)
1202036453	246334001(RE15-10-8328D) Sample Duplicate (DUP)
1202036454	246334001(RE15-10-8328S) Matrix Spike (MS)
1202039378	Method Blank (MB) CVAA
1202039379	Laboratory Control Sample (LCS)
1202039382	246431001(RE46-10-11893L) Serial Dilution (SD)
1202039380	246431001(RE46-10-11893D) Sample Duplicate (DUP)
1202039381	246431001(RE46-10-11893S) Matrix Spike (MS)

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

Method/Analysis Information

Analytical Batch:	950319, 950326 and 951593
Prep Batch :	950315, 950323 and 951592
Standard Operating Procedures:	GL-MA-E-013 REV# 20, GL-MA-E-006 REV# 9, GL-MA-E-014 REV# 21 and GL-MA-E-010 REV# 23
Analytical Method:	SW846 3005/6010B, SW846 3005/6020 and SW846 7470A
Prep Method :	SW846 3005A and SW846 7470A Prep

Preparation/Analytical Method Verification

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

System Configuration

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

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

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

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

Calibration Information

Instrument Calibration

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

CRDL Requirements

All CRDL standard(s) met the referenced advisory control limits.

ICSA/ICSAB Statement

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

Continuing Calibration Blank (CCB) Requirements

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

Continuing Calibration Verification (CCV) Requirements

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

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

The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement

The following samples were selected as the quality control (QC) samples for this SDG: 246334001 (RE15-10-8328)-ICP and ICP-MS and 246431001 (RE46-10-11893)-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-Cole A Elmore Date: 3-4-10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1565-1

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 246323001

BASIS: As Received

DATE COLLECTED 01-FEB-10

CLIENT ID: RE15-10-7344

LEVEL: Low

DATE RECEIVED 05-FEB-10

MATRIX: WATER

%SOLIDS: 0

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	89.6	ug/L	J	68	200	200	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-36-0	Antimony	3	ug/L	U	1	3	3	1	MS	BAJ	03/04/10 05:45	100303-5	950326
7440-38-2	Arsenic	30	ug/L	U	5	30	30	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-39-3	Barium	1.1	ug/L	J	1	5	5	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-41-7	Beryllium	0.50	ug/L	U	0.1	0.5	0.5	1	MS	BAJ	03/04/10 12:59	100304-6	950326
7440-43-9	Cadmium	1	ug/L	U	0.11	1	1	1	MS	BAJ	03/04/10 05:45	100303-5	950326
7440-70-2	Calcium	200	ug/L	U	50	200	200	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-47-3	Chromium	5	ug/L	U	1	5	5	1	P	HSC	02/20/10 04:54	021910B-2	950319
7440-48-4	Cobalt	5	ug/L	U	1	5	5	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-50-8	Copper	10	ug/L	U	3	10	10	1	P	HSC	02/17/10 23:02	021710B-1	950319
7439-89-6	Iron	75.8	ug/L	J	30	100	100	1	P	HSC	02/17/10 23:02	021710B-1	950319
7439-92-1	Lead	2	ug/L	U	0.5	2	2	1	MS	BAJ	03/04/10 05:45	100303-5	950326
7439-95-4	Magnesium	300	ug/L	U	85	300	300	1	P	HSC	02/17/10 23:02	021710B-1	950319
7439-96-5	Manganese	2.4	ug/L	J	1	5	5	1	MS	BAJ	03/04/10 12:59	100304-6	950326
7439-97-6	Mercury	0.20	ug/L	U	0.066	0.2	0.2	1	AV	JX1.1	02/17/10 10:53	021710W2-7	951593
7440-02-0	Nickel	5	ug/L	U	1.5	5	5	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-09-7	Potassium	133	ug/L	J	50	150	150	1	P	HSC	02/17/10 23:02	021710B-1	950319
7782-49-2	Selenium	30	ug/L	U	5	30	30	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-22-4	Silver	5	ug/L	U	1	5	5	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-23-5	Sodium	102	ug/L	J	100	300	300	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-28-0	Thallium	0.366	ug/L	J	0.3	1	1	1	MS	PRB	03/04/10 13:13	100304-3	950326
7440-61-1	Uranium	0.20	ug/L	U	0.05	0.2	0.2	1	MS	PRB	03/04/10 13:47	100304-4	950326
7440-62-2	Vanadium	5	ug/L	U	1	5	5	1	P	HSC	02/17/10 23:02	021710B-1	950319
7440-66-6	Zinc	10	ug/L	U	3.3	10	10	1	P	HSC	02/17/10 23:02	021710B-1	950319

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
950319	950315	SW846 3005A	50	mL	50	mL	02/15/10	FGA
950326	950323	SW846 3005A	50	mL	50	mL	02/15/10	FGA
951593	951592	SW846 7470A Prep	20	mL	20	mL	02/16/10	TXB3

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1565-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Mercury	5.23	ug/L	5	ug/L	104.6	90.0 – 110.0	AV	17-FEB-10 09:48	021710W2-7
	Aluminum	4830	ug/L	5000	ug/L	96.6	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Arsenic	468	ug/L	500	ug/L	93.6	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Barium	492	ug/L	500	ug/L	98.4	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Calcium	4800	ug/L	5000	ug/L	96	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Cobalt	487	ug/L	500	ug/L	97.3	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Copper	482	ug/L	500	ug/L	96.3	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Iron	4880	ug/L	5000	ug/L	97.5	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Magnesium	5190	ug/L	5000	ug/L	103.8	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Nickel	485	ug/L	500	ug/L	97.1	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Potassium	2340	ug/L	2500	ug/L	93.5	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Selenium	2510	ug/L	2500	ug/L	100.2	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Silver	252	ug/L	250	ug/L	100.8	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Sodium	2360	ug/L	2500	ug/L	94.3	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Vanadium	499	ug/L	500	ug/L	99.9	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Zinc	491	ug/L	500	ug/L	98.2	90.0 – 110.0	P	17-FEB-10 13:58	021710B-1
	Chromium	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	19-FEB-10 17:05	021910B-2
	Antimony	52.4	ug/L	50	ug/L	104.9	90.0 – 110.0	MS	04-MAR-10 02:59	100303-5
	Cadmium	51.9	ug/L	50	ug/L	103.8	90.0 – 110.0	MS	04-MAR-10 02:59	100303-5
	Lead	55.2	ug/L	50	ug/L	110.4	90.0 – 110.0	MS	04-MAR-10 02:59	100303-5
	Thallium	51.3	ug/L	50	ug/L	102.5	90.0 – 110.0	MS	04-MAR-10 11:47	100304-3
	Beryllium	50	ug/L	50	ug/L	99.9	90.0 – 110.0	MS	04-MAR-10 12:37	100304-6
	Manganese	51.9	ug/L	50	ug/L	103.7	90.0 – 110.0	MS	04-MAR-10 12:37	100304-6
	Uranium	54.3	ug/L	50	ug/L	108.6	90.0 – 110.0	MS	04-MAR-10 13:28	100304-4
CCV01										
	Mercury	5.12	ug/L	5	ug/L	102.3	80.0 – 120.0	AV	17-FEB-10 09:54	021710W2-7
	Aluminum	4890	ug/L	5000	ug/L	97.7	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1
	Arsenic	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1
	Barium	483	ug/L	500	ug/L	96.6	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1
	Calcium	5090	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1565-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cobalt	478	ug/L	500	ug/L	95.7	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1
	Copper	467	ug/L	500	ug/L	93.4	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1
	Iron	5240	ug/L	5000	ug/L	104.9	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1
	Magnesium	5380	ug/L	5000	ug/L	107.7	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1
	Nickel	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1
	Potassium	5100	ug/L	5000	ug/L	102.1	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1
	Selenium	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1
	Silver	476	ug/L	500	ug/L	95.3	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1
	Sodium	11000	ug/L	10000	ug/L	110.4	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1
	Vanadium	485	ug/L	500	ug/L	97.1	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1
	Zinc	479	ug/L	500	ug/L	95.8	90.0 – 110.0	P	17-FEB-10 14:56	021710B-1
	Chromium	481	ug/L	500	ug/L	96.2	90.0 – 110.0	P	19-FEB-10 17:53	021910B-2
	Antimony	50.1	ug/L	50	ug/L	100.3	90.0 – 110.0	MS	04-MAR-10 03:30	100303-5
	Cadmium	49	ug/L	50	ug/L	97.9	90.0 – 110.0	MS	04-MAR-10 03:30	100303-5
	Lead	53.6	ug/L	50	ug/L	107.2	90.0 – 110.0	MS	04-MAR-10 03:30	100303-5
	Thallium	50.6	ug/L	50	ug/L	101.3	90.0 – 110.0	MS	04-MAR-10 12:01	100304-3
	Beryllium	51.8	ug/L	50	ug/L	103.6	90.0 – 110.0	MS	04-MAR-10 12:49	100304-6
	Manganese	54.4	ug/L	50	ug/L	108.8	90.0 – 110.0	MS	04-MAR-10 12:49	100304-6
	Uranium	50.2	ug/L	50	ug/L	100.4	90.0 – 110.0	MS	04-MAR-10 13:37	100304-4
CCV02	Mercury	5.09	ug/L	5	ug/L	101.7	80.0 – 120.0	AV	17-FEB-10 10:17	021710W2-7
	Aluminum	4910	ug/L	5000	ug/L	98.2	90.0 – 110.0	P	17-FEB-10 15:25	021710B-1
	Arsenic	489	ug/L	500	ug/L	97.9	90.0 – 110.0	P	17-FEB-10 15:25	021710B-1
	Barium	487	ug/L	500	ug/L	97.4	90.0 – 110.0	P	17-FEB-10 15:25	021710B-1
	Calcium	5060	ug/L	5000	ug/L	101.1	90.0 – 110.0	P	17-FEB-10 15:25	021710B-1
	Cobalt	480	ug/L	500	ug/L	96	90.0 – 110.0	P	17-FEB-10 15:25	021710B-1
	Copper	475	ug/L	500	ug/L	95.1	90.0 – 110.0	P	17-FEB-10 15:25	021710B-1
	Iron	5030	ug/L	5000	ug/L	100.6	90.0 – 110.0	P	17-FEB-10 15:25	021710B-1
	Magnesium	5170	ug/L	5000	ug/L	103.3	90.0 – 110.0	P	17-FEB-10 15:25	021710B-1
	Nickel	482	ug/L	500	ug/L	96.4	90.0 – 110.0	P	17-FEB-10 15:25	021710B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1565-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Potassium	4950	ug/L	5000	ug/L	99	90.0 - 110.0	P	17-FEB-10 15:25	021710B-1
	Selenium	506	ug/L	500	ug/L	101.2	90.0 - 110.0	P	17-FEB-10 15:25	021710B-1
	Silver	482	ug/L	500	ug/L	96.3	90.0 - 110.0	P	17-FEB-10 15:25	021710B-1
	Sodium	9530	ug/L	10000	ug/L	95.3	90.0 - 110.0	P	17-FEB-10 15:25	021710B-1
	Vanadium	489	ug/L	500	ug/L	97.7	90.0 - 110.0	P	17-FEB-10 15:25	021710B-1
	Zinc	481	ug/L	500	ug/L	96.2	90.0 - 110.0	P	17-FEB-10 15:25	021710B-1
	Chromium	479	ug/L	500	ug/L	95.8	90.0 - 110.0	P	19-FEB-10 18:13	021910B-2
	Antimony	53.1	ug/L	50	ug/L	106.1	90.0 - 110.0	MS	04-MAR-10 03:48	100303-5
	Cadmium	51	ug/L	50	ug/L	102	90.0 - 110.0	MS	04-MAR-10 03:48	100303-5
	Lead	54.6	ug/L	50	ug/L	109.3	90.0 - 110.0	MS	04-MAR-10 03:48	100303-5
	Thallium	50.3	ug/L	50	ug/L	100.6	90.0 - 110.0	MS	04-MAR-10 12:26	100304-3
	Beryllium	50.1	ug/L	50	ug/L	100.3	90.0 - 110.0	MS	04-MAR-10 13:11	100304-6
	Manganese	54.2	ug/L	50	ug/L	108.4	90.0 - 110.0	MS	04-MAR-10 13:11	100304-6
	Uranium	50	ug/L	50	ug/L	99.9	90.0 - 110.0	MS	04-MAR-10 13:57	100304-4
CCV03	Mercury	4.91	ug/L	5	ug/L	98.2	80.0 - 120.0	AV	17-FEB-10 10:40	021710W2-7
	Aluminum	4640	ug/L	5000	ug/L	92.8	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1
	Arsenic	489	ug/L	500	ug/L	97.9	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1
	Barium	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1
	Calcium	4780	ug/L	5000	ug/L	95.6	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1
	Cobalt	487	ug/L	500	ug/L	97.5	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1
	Copper	473	ug/L	500	ug/L	94.5	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1
	Iron	4770	ug/L	5000	ug/L	95.5	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1
	Magnesium	4960	ug/L	5000	ug/L	99.2	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1
	Nickel	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1
	Potassium	4640	ug/L	5000	ug/L	92.8	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1
	Selenium	505	ug/L	500	ug/L	101	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1
	Silver	483	ug/L	500	ug/L	96.7	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1
	Sodium	9240	ug/L	10000	ug/L	92.4	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1
	Vanadium	490	ug/L	500	ug/L	97.9	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1565-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV04	Zinc	480	ug/L	500	ug/L	96.1	90.0 - 110.0	P	17-FEB-10 15:54	021710B-1
	Chromium	481	ug/L	500	ug/L	96.1	90.0 - 110.0	P	19-FEB-10 19:15	021910B-2
	Antimony	50.1	ug/L	50	ug/L	100.2	90.0 - 110.0	MS	04-MAR-10 04:44	100303-5
	Cadmium	48.9	ug/L	50	ug/L	97.8	90.0 - 110.0	MS	04-MAR-10 04:44	100303-5
	Lead	53.6	ug/L	50	ug/L	107.3	90.0 - 110.0	MS	04-MAR-10 04:44	100303-5
	Thallium	50.7	ug/L	50	ug/L	101.4	90.0 - 110.0	MS	04-MAR-10 12:48	100304-3
CCV04	Mercury	4.9	ug/L	5	ug/L	98.1	80.0 - 120.0	AV	17-FEB-10 11:03	021710W2-7
	Aluminum	4850	ug/L	5000	ug/L	96.9	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Arsenic	491	ug/L	500	ug/L	98.3	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Barium	489	ug/L	500	ug/L	97.8	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Calcium	4890	ug/L	5000	ug/L	97.8	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Cobalt	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Copper	481	ug/L	500	ug/L	96.3	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Iron	4880	ug/L	5000	ug/L	97.5	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Magnesium	4910	ug/L	5000	ug/L	98.2	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Nickel	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Potassium	4770	ug/L	5000	ug/L	95.3	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Selenium	508	ug/L	500	ug/L	101.6	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Silver	487	ug/L	500	ug/L	97.3	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Sodium	9820	ug/L	10000	ug/L	98.2	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Vanadium	493	ug/L	500	ug/L	98.6	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Zinc	484	ug/L	500	ug/L	96.7	90.0 - 110.0	P	17-FEB-10 17:15	021710B-1
	Chromium	474	ug/L	500	ug/L	94.8	90.0 - 110.0	P	19-FEB-10 20:17	021910B-2
	Antimony	50.3	ug/L	50	ug/L	100.6	90.0 - 110.0	MS	04-MAR-10 05:20	100303-5
	Cadmium	49.1	ug/L	50	ug/L	98.3	90.0 - 110.0	MS	04-MAR-10 05:20	100303-5
	Lead	53.4	ug/L	50	ug/L	106.8	90.0 - 110.0	MS	04-MAR-10 05:20	100303-5
	Thallium	50.1	ug/L	50	ug/L	100.2	90.0 - 110.0	MS	04-MAR-10 13:16	100304-3
CCV05	Mercury	4.91	ug/L	5	ug/L	98.2	80.0 - 120.0	AV	17-FEB-10 11:26	021710W2-7

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1565-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3.ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Aluminum	5060	ug/L	5000	ug/L	101.1	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Arsenic	494	ug/L	500	ug/L	98.8	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Barium	485	ug/L	500	ug/L	96.9	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Cobalt	483	ug/L	500	ug/L	96.6	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Copper	486	ug/L	500	ug/L	97.1	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Iron	4980	ug/L	5000	ug/L	99.7	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Magnesium	5340	ug/L	5000	ug/L	106.8	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Nickel	487	ug/L	500	ug/L	97.3	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Potassium	4940	ug/L	5000	ug/L	98.8	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Selenium	516	ug/L	500	ug/L	103.3	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Silver	485	ug/L	500	ug/L	97	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Sodium	9810	ug/L	10000	ug/L	98.1	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Vanadium	498	ug/L	500	ug/L	99.5	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Zinc	484	ug/L	500	ug/L	96.9	90.0 - 110.0	P	17-FEB-10 18:11	021710B-1
	Chromium	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	19-FEB-10 21:11	021910B-2
	Antimony	50.3	ug/L	50	ug/L	100.5	90.0 - 110.0	MS	04-MAR-10 06:16	100303-5
	Cadmium	48.4	ug/L	50	ug/L	96.8	90.0 - 110.0	MS	04-MAR-10 06:16	100303-5
	Lead	53.8	ug/L	50	ug/L	107.6	90.0 - 110.0	MS	04-MAR-10 06:16	100303-5
CCV06	Aluminum	4980	ug/L	5000	ug/L	99.6	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1
	Arsenic	492	ug/L	500	ug/L	98.4	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1
	Barium	484	ug/L	500	ug/L	96.7	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1
	Calcium	5040	ug/L	5000	ug/L	100.9	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1
	Cobalt	480	ug/L	500	ug/L	96	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1
	Copper	483	ug/L	500	ug/L	96.7	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1
	Iron	4960	ug/L	5000	ug/L	99.1	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1
	Magnesium	5200	ug/L	5000	ug/L	104	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1
	Nickel	483	ug/L	500	ug/L	96.7	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1
	Potassium	4830	ug/L	5000	ug/L	96.5	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1565-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV07	Selenium	515	ug/L	500	ug/L	103	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1
	Silver	483	ug/L	500	ug/L	96.6	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1
	Sodium	9840	ug/L	10000	ug/L	98.4	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1
	Vanadium	494	ug/L	500	ug/L	98.8	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1
	Zinc	481	ug/L	500	ug/L	96.3	90.0 - 110.0	P	17-FEB-10 18:59	021710B-1
	Chromium	490	ug/L	500	ug/L	97.9	90.0 - 110.0	P	19-FEB-10 22:20	021910B-2
	Aluminum	5040	ug/L	5000	ug/L	100.8	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
	Arsenic	492	ug/L	500	ug/L	98.4	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
	Barium	481	ug/L	500	ug/L	96.2	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
	Calcium	5070	ug/L	5000	ug/L	101.3	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
	Cobalt	484	ug/L	500	ug/L	96.8	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
	Copper	482	ug/L	500	ug/L	96.5	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
	Iron	4980	ug/L	5000	ug/L	99.7	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
	Magnesium	5160	ug/L	5000	ug/L	103.1	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
	Nickel	486	ug/L	500	ug/L	97.3	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
	Potassium	4830	ug/L	5000	ug/L	96.7	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
	Selenium	511	ug/L	500	ug/L	102.2	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
	Silver	486	ug/L	500	ug/L	97.1	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
	Sodium	9450	ug/L	10000	ug/L	94.5	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
CCV08	Vanadium	497	ug/L	500	ug/L	99.4	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
	Zinc	483	ug/L	500	ug/L	96.5	90.0 - 110.0	P	17-FEB-10 19:46	021710B-1
	Chromium	491	ug/L	500	ug/L	98.2	90.0 - 110.0	P	19-FEB-10 23:28	021910B-2
	Aluminum	5090	ug/L	5000	ug/L	101.8	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1
	Arsenic	494	ug/L	500	ug/L	98.7	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1
	Barium	483	ug/L	500	ug/L	96.6	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1
	Calcium	5080	ug/L	5000	ug/L	101.6	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1
	Cobalt	483	ug/L	500	ug/L	96.6	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1
	Copper	479	ug/L	500	ug/L	95.9	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1565-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Iron	4980	ug/L	5000	ug/L	99.7	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1
	Magnesium	5190	ug/L	5000	ug/L	103.8	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1
	Nickel	487	ug/L	500	ug/L	97.3	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1
	Potassium	4890	ug/L	5000	ug/L	97.8	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1
	Selenium	515	ug/L	500	ug/L	102.9	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1
	Silver	487	ug/L	500	ug/L	97.4	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1
	Sodium	9860	ug/L	10000	ug/L	98.6	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1
	Vanadium	497	ug/L	500	ug/L	99.3	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1
	Zinc	480	ug/L	500	ug/L	95.9	90.0 - 110.0	P	17-FEB-10 20:48	021710B-1
	Chromium	491	ug/L	500	ug/L	98.2	90.0 - 110.0	P	20-FEB-10 00:50	021910B-2
CCV09										
	Aluminum	5100	ug/L	5000	ug/L	102	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Arsenic	501	ug/L	500	ug/L	100.3	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Barium	491	ug/L	500	ug/L	98.3	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Calcium	5140	ug/L	5000	ug/L	102.7	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Cobalt	483	ug/L	500	ug/L	96.7	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Copper	486	ug/L	500	ug/L	97.1	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Iron	5040	ug/L	5000	ug/L	100.8	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Magnesium	5140	ug/L	5000	ug/L	102.9	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Nickel	489	ug/L	500	ug/L	97.7	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Potassium	4970	ug/L	5000	ug/L	99.3	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Selenium	521	ug/L	500	ug/L	104.2	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Silver	489	ug/L	500	ug/L	97.8	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Sodium	9990	ug/L	10000	ug/L	99.9	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Vanadium	501	ug/L	500	ug/L	100.1	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Zinc	486	ug/L	500	ug/L	97.2	90.0 - 110.0	P	17-FEB-10 21:43	021710B-1
	Chromium	490	ug/L	500	ug/L	98.1	90.0 - 110.0	P	20-FEB-10 01:38	021910B-2
CCV10										
	Aluminum	5200	ug/L	5000	ug/L	104	90.0 - 110.0	P	17-FEB-10 22:34	021710B-1
	Arsenic	528	ug/L	500	ug/L	105.5	90.0 - 110.0	P	17-FEB-10 22:34	021710B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1565-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Barium	515	ug/L	500	ug/L	103	90.0 – 110.0	P	17-FEB-10 22:34	021710B-1
	Calcium	5310	ug/L	5000	ug/L	106.2	90.0 – 110.0	P	17-FEB-10 22:34	021710B-1
	Cobalt	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	17-FEB-10 22:34	021710B-1
	Copper	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	17-FEB-10 22:34	021710B-1
	Iron	5330	ug/L	5000	ug/L	106.5	90.0 – 110.0	P	17-FEB-10 22:34	021710B-1
	Magnesium	5490	ug/L	5000	ug/L	109.9	90.0 – 110.0	P	17-FEB-10 22:34	021710B-1
	Nickel	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	17-FEB-10 22:34	021710B-1
	Potassium	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	17-FEB-10 22:34	021710B-1
	Selenium	543	ug/L	500	ug/L	108.6	90.0 – 110.0	P	17-FEB-10 22:34	021710B-1
	Silver	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	17-FEB-10 22:34	021710B-1
	Sodium	10500	ug/L	10000	ug/L	105.5	90.0 – 110.0	P	17-FEB-10 22:34	021710B-1
	Vanadium	519	ug/L	500	ug/L	103.7	90.0 – 110.0	P	17-FEB-10 22:34	021710B-1
	Zinc	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	17-FEB-10 22:34	021710B-1
	Chromium	496	ug/L	500	ug/L	99.3	90.0 – 110.0	P	20-FEB-10 02:40	021910B-2
CCV11										
	Aluminum	5290	ug/L	5000	ug/L	105.9	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1
	Arsenic	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1
	Barium	513	ug/L	500	ug/L	102.5	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1
	Calcium	5320	ug/L	5000	ug/L	106.4	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1
	Cobalt	505	ug/L	500	ug/L	101	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1
	Copper	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1
	Iron	5290	ug/L	5000	ug/L	105.8	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1
	Magnesium	5490	ug/L	5000	ug/L	109.8	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1
	Nickel	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1
	Potassium	5190	ug/L	5000	ug/L	103.8	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1
	Selenium	534	ug/L	500	ug/L	106.8	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1
	Silver	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1
	Sodium	10600	ug/L	10000	ug/L	105.6	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1
	Vanadium	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1
	Zinc	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	17-FEB-10 23:36	021710B-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1565-1

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV12	Chromium	491	ug/L	500	ug/L	98.2	90.0 - 110.0	P	20-FEB-10 03:36	021910B-2
	Chromium	491	ug/L	500	ug/L	98.1	90.0 - 110.0	P	20-FEB-10 04:27	021910B-2
	Chromium	494	ug/L	500	ug/L	98.7	90.0 - 110.0	P	20-FEB-10 05:28	021910B-2

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1565-1

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: HG3,ICPMS3,ICPMS5,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Mercury	.176	ug/L	.2	ug/L	88	70.0 – 130.0	AV	17-FEB-10 09:52	021710W2-7
	Lead	2.52	ug/L	2	ug/L	126	70.0 – 130.0	MS	04-MAR-10 03:12	100303-5
	Antimony	3.41	ug/L	3	ug/L	113.6	70.0 – 130.0	MS	04-MAR-10 03:12	100303-5
	Cadmium	1.13	ug/L	1	ug/L	113.3	70.0 – 130.0	MS	04-MAR-10 03:12	100303-5
	Thallium	1.19	ug/L	1	ug/L	119.2	70.0 – 130.0	MS	04-MAR-10 11:52	100304-3
	Manganese	5.86	ug/L	5	ug/L	117.2	70.0 – 130.0	MS	04-MAR-10 12:42	100304-6
	Beryllium	.527	ug/L	.5	ug/L	105.4	70.0 – 130.0	MS	04-MAR-10 12:42	100304-6
	Uranium	.243	ug/L	.2	ug/L	121.5	70.0 – 130.0	MS	04-MAR-10 13:31	100304-4
PQL01										
	Zinc	11.2	ug/L	10	ug/L	112.4	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Copper	9.82	ug/L	10	ug/L	98.2	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Cobalt	4.81	ug/L	5	ug/L	96.1	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Barium	5.11	ug/L	5	ug/L	102.3	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Arsenic	25.7	ug/L	30	ug/L	85.5	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Sodium	287	ug/L	300	ug/L	95.7	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Silver	5	ug/L	5	ug/L	100.1	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Potassium	121	ug/L	150	ug/L	80.5	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Nickel	5.21	ug/L	5	ug/L	104.2	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Selenium	35.9	ug/L	30	ug/L	119.8	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Vanadium	5.23	ug/L	5	ug/L	104.6	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Aluminum	192	ug/L	200	ug/L	96.1	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Magnesium	312	ug/L	300	ug/L	104.2	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Iron	105	ug/L	100	ug/L	105.5	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Calcium	210	ug/L	200	ug/L	104.9	70.0 – 130.0	P	17-FEB-10 14:11	021710B-1
	Chromium	4.72	ug/L	5	ug/L	94.4	70.0 – 130.0	P	19-FEB-10 17:18	021910B-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565-1

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	Mercury	0.066	+/- .2	U	0.066	0.2	LIQ	AV	17-FEB-10 09:50	021710W2-7
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	17-FEB-10 14:04	021710B-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 14:04	021710B-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 14:04	021710B-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	17-FEB-10 14:04	021710B-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 14:04	021710B-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	17-FEB-10 14:04	021710B-1
	Iron	-32.35	+/-100	J	30.0	100	LIQ	P	17-FEB-10 14:04	021710B-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	17-FEB-10 14:04	021710B-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	17-FEB-10 14:04	021710B-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	17-FEB-10 14:04	021710B-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 14:04	021710B-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 14:04	021710B-1
	Sodium	100	+/-300	U	100	300	LIQ	P	17-FEB-10 14:04	021710B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 14:04	021710B-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	17-FEB-10 14:04	021710B-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	19-FEB-10 17:12	021910B-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	04-MAR-10 03:05	100303-5
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	04-MAR-10 03:05	100303-5
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	04-MAR-10 03:05	100303-5
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	04-MAR-10 11:50	100304-3
	Beryllium	0.1	+/- .5	U	0.1	0.5	LIQ	MS	04-MAR-10 12:40	100304-6
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	04-MAR-10 12:40	100304-6
	Uranium	0.05	+/- .2	U	0.05	0.2	LIQ	MS	04-MAR-10 13:29	100304-4
CCB01	Mercury	0.066	+/- .2	U	0.066	0.2	LIQ	AV	17-FEB-10 09:56	021710W2-7
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	17-FEB-10 15:03	021710B-1
	Arsenic	5.45	+/-30	J	5.0	30.0	LIQ	P	17-FEB-10 15:03	021710B-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 15:03	021710B-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	17-FEB-10 15:03	021710B-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 15:03	021710B-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ng/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	17-FEB-10 15:03	021710B-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	17-FEB-10 15:03	021710B-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	17-FEB-10 15:03	021710B-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	17-FEB-10 15:03	021710B-1
	Potassium	60.87	+/-150	J	50.0	150	LIQ	P	17-FEB-10 15:03	021710B-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 15:03	021710B-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 15:03	021710B-1
	Sodium	100	+/-300	U	100	300	LIQ	P	17-FEB-10 15:03	021710B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 15:03	021710B-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	17-FEB-10 15:03	021710B-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	19-FEB-10 18:00	021910B-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	04-MAR-10 03:36	100303-5
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	04-MAR-10 03:36	100303-5
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	04-MAR-10 03:36	100303-5
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	04-MAR-10 12:04	100304-3
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	04-MAR-10 12:51	100304-6
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	04-MAR-10 12:51	100304-6
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	04-MAR-10 13:39	100304-4
CCB02										
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	17-FEB-10 10:19	021710W2-7
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	17-FEB-10 15:32	021710B-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 15:32	021710B-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 15:32	021710B-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	17-FEB-10 15:32	021710B-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 15:32	021710B-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	17-FEB-10 15:32	021710B-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	17-FEB-10 15:32	021710B-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	17-FEB-10 15:32	021710B-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	17-FEB-10 15:32	021710B-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	17-FEB-10 15:32	021710B-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 15:32	021710B-1

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565-J

Contract: LANL01004

Lab Code: GEL

Sample ID	Analyte	Result ug/L	Acceptance	Conc Qual	MDL	RDL	Matrix	M	Analysis Date/Time	Run
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 15:32	021710B-1
	Sodium	100	+/-300	U	100	300	LIQ	P	17-FEB-10 15:32	021710B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 15:32	021710B-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	17-FEB-10 15:32	021710B-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	19-FEB-10 18:20	021910B-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	04-MAR-10 03:54	100303-5
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	04-MAR-10 03:54	100303-5
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	04-MAR-10 03:54	100303-5
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	04-MAR-10 12:29	100304-3
	Beryllium	0.1	+/-5	U	0.1	0.5	LIQ	MS	04-MAR-10 13:13	100304-6
	Manganese	1.0	+/-5	U	1.0	5.0	LIQ	MS	04-MAR-10 13:13	100304-6
	Uranium	0.05	+/-2	U	0.05	0.2	LIQ	MS	04-MAR-10 13:59	100304-4
CCB03	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	17-FEB-10 10:42	021710W2-7
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	17-FEB-10 16:01	021710B-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 16:01	021710B-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 16:01	021710B-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	17-FEB-10 16:01	021710B-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 16:01	021710B-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	17-FEB-10 16:01	021710B-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	17-FEB-10 16:01	021710B-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	17-FEB-10 16:01	021710B-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	17-FEB-10 16:01	021710B-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	17-FEB-10 16:01	021710B-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 16:01	021710B-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 16:01	021710B-1
	Sodium	100	+/-300	U	100	300	LIQ	P	17-FEB-10 16:01	021710B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 16:01	021710B-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	17-FEB-10 16:01	021710B-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	19-FEB-10 19:22	021910B-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	04-MAR-10 04:50	100303-5

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ng/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
CCB04	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	04-MAR-10 04:50	100303-5
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	04-MAR-10 04:50	100303-5
	Thallium	0.3	+/-1	U	0.3	1.0	LIQ	MS	04-MAR-10 12:51	100304-3
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	17-FEB-10 11:05	021710W2-7
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	17-FEB-10 17:22	021710B-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 17:22	021710B-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 17:22	021710B-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	17-FEB-10 17:22	021710B-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 17:22	021710B-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	17-FEB-10 17:22	021710B-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	17-FEB-10 17:22	021710B-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	17-FEB-10 17:22	021710B-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	17-FEB-10 17:22	021710B-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	17-FEB-10 17:22	021710B-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 17:22	021710B-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 17:22	021710B-1
	Sodium	100	+/-300	U	100	300	LIQ	P	17-FEB-10 17:22	021710B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 17:22	021710B-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	17-FEB-10 17:22	021710B-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	19-FEB-10 20:24	021910B-2
CCB05	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	04-MAR-10 05:27	100303-5
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	04-MAR-10 05:27	100303-5
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	04-MAR-10 05:27	100303-5
	Thallium	0.443	+/-1	J	0.3	1.0	LIQ	MS	04-MAR-10 13:19	100304-3
	Mercury	0.066	+/-2	U	0.066	0.2	LIQ	AV	17-FEB-10 11:28	021710W2-7
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	17-FEB-10 18:18	021710B-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 18:18	021710B-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 18:18	021710B-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	17-FEB-10 18:18	021710B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 18:18	021710B-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	17-FEB-10 18:18	021710B-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	17-FEB-10 18:18	021710B-1
	Magnesium	97.62	+/-300	J	85.0	300	LIQ	P	17-FEB-10 18:18	021710B-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	17-FEB-10 18:18	021710B-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	17-FEB-10 18:18	021710B-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 18:18	021710B-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 18:18	021710B-1
	Sodium	100.32	+/-300	J	100	300	LIQ	P	17-FEB-10 18:18	021710B-1
	Vanadium	1.7	+/-5	J	1.0	5.0	LIQ	P	17-FEB-10 18:18	021710B-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	17-FEB-10 18:18	021710B-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	19-FEB-10 21:18	021910B-2
	Antimony	1.0	+/-3	U	1.0	3.0	LIQ	MS	04-MAR-10 06:22	100303-5
	Cadmium	0.11	+/-1	U	0.11	1.0	LIQ	MS	04-MAR-10 06:22	100303-5
	Lead	0.5	+/-2	U	0.5	2.0	LIQ	MS	04-MAR-10 06:22	100303-5
CCB06	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	17-FEB-10 19:05	021710B-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 19:05	021710B-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 19:05	021710B-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	17-FEB-10 19:05	021710B-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 19:05	021710B-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	17-FEB-10 19:05	021710B-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	17-FEB-10 19:05	021710B-1
	Magnesium	94.42	+/-300	J	85.0	300	LIQ	P	17-FEB-10 19:05	021710B-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	17-FEB-10 19:05	021710B-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	17-FEB-10 19:05	021710B-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 19:05	021710B-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 19:05	021710B-1
	Sodium	100	+/-300	U	100	300	LIQ	P	17-FEB-10 19:05	021710B-1
	Vanadium	1.6	+/-5	J	1.0	5.0	LIQ	P	17-FEB-10 19:05	021710B-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	17-FEB-10 19:05	021710B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565-1

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	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	19-FEB-10 22:27	021910B-2
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	17-FEB-10 19:53	021710B-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 19:53	021710B-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 19:53	021710B-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	17-FEB-10 19:53	021710B-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 19:53	021710B-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	17-FEB-10 19:53	021710B-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	17-FEB-10 19:53	021710B-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	17-FEB-10 19:53	021710B-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	17-FEB-10 19:53	021710B-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	17-FEB-10 19:53	021710B-1
	Selenium	6.3	+/-30	J	5.0	30.0	LIQ	P	17-FEB-10 19:53	021710B-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 19:53	021710B-1
	Sodium	100	+/-300	U	100	300	LIQ	P	17-FEB-10 19:53	021710B-1
	Vanadium	2.21	+/-5	J	1.0	5.0	LIQ	P	17-FEB-10 19:53	021710B-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	17-FEB-10 19:53	021710B-1
CCB08	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	19-FEB-10 23:35	021910B-2
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	17-FEB-10 20:55	021710B-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 20:55	021710B-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 20:55	021710B-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	17-FEB-10 20:55	021710B-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 20:55	021710B-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	17-FEB-10 20:55	021710B-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	17-FEB-10 20:55	021710B-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	17-FEB-10 20:55	021710B-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	17-FEB-10 20:55	021710B-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	17-FEB-10 20:55	021710B-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 20:55	021710B-1
	Silver	1.03	+/-5	J	1.0	5.0	LIQ	P	17-FEB-10 20:55	021710B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565-1

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ng/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB09	Sodium	100	+/-300	U	100	300	LIQ	P	17-FEB-10 20:55	021710B-1
	Vanadium	1.18	+/-5	J	1.0	5.0	LIQ	P	17-FEB-10 20:55	021710B-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	17-FEB-10 20:55	021710B-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	20-FEB-10 00:57	021910B-2
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	17-FEB-10 21:50	021710B-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 21:50	021710B-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 21:50	021710B-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	17-FEB-10 21:50	021710B-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 21:50	021710B-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	17-FEB-10 21:50	021710B-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	17-FEB-10 21:50	021710B-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	17-FEB-10 21:50	021710B-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	17-FEB-10 21:50	021710B-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	17-FEB-10 21:50	021710B-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 21:50	021710B-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 21:50	021710B-1
	Sodium	100	+/-300	U	100	300	LIQ	P	17-FEB-10 21:50	021710B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 21:50	021710B-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	17-FEB-10 21:50	021710B-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	20-FEB-10 01:45	021910B-2
CCB10	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	17-FEB-10 22:41	021710B-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 22:41	021710B-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 22:41	021710B-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	17-FEB-10 22:41	021710B-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 22:41	021710B-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	17-FEB-10 22:41	021710B-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	17-FEB-10 22:41	021710B-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	17-FEB-10 22:41	021710B-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	17-FEB-10 22:41	021710B-1

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1565-1

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>
CCB11	Potassium	51.61	+/-150	J	50.0	150	LIQ	P	17-FEB-10 22:41	021710B-1
	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 22:41	021710B-1
	Silver	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 22:41	021710B-1
	Sodium	100	+/-300	U	100	300	LIQ	P	17-FEB-10 22:41	021710B-1
	Vanadium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 22:41	021710B-1
	Zinc	3.3	+/-10	U	3.3	10.0	LIQ	P	17-FEB-10 22:41	021710B-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	20-FEB-10 02:47	021910B-2
	Aluminum	68.0	+/-200	U	68.0	200	LIQ	P	17-FEB-10 23:43	021710B-1
	Arsenic	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 23:43	021710B-1
	Barium	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 23:43	021710B-1
	Calcium	50.0	+/-200	U	50.0	200	LIQ	P	17-FEB-10 23:43	021710B-1
	Cobalt	1.0	+/-5	U	1.0	5.0	LIQ	P	17-FEB-10 23:43	021710B-1
	Copper	3.0	+/-10	U	3.0	10.0	LIQ	P	17-FEB-10 23:43	021710B-1
	Iron	30.0	+/-100	U	30.0	100	LIQ	P	17-FEB-10 23:43	021710B-1
	Magnesium	85.0	+/-300	U	85.0	300	LIQ	P	17-FEB-10 23:43	021710B-1
	Nickel	1.5	+/-5	U	1.5	5.0	LIQ	P	17-FEB-10 23:43	021710B-1
	Potassium	50.0	+/-150	U	50.0	150	LIQ	P	17-FEB-10 23:43	021710B-1
CCB12	Selenium	5.0	+/-30	U	5.0	30.0	LIQ	P	17-FEB-10 23:43	021710B-1
	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	20-FEB-10 04:34	021910B-2
CCB13	Chromium	1.0	+/-5	U	1.0	5.0	LIQ	P	20-FEB-10 05:35	021910B-2

METALS
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PREPARATION BLANK SUMMARY

SDG NO. 10-1565-1

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>
1202036425	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	112	ug/L	+/-300	J	P	85	300
	Nickel	1.5	ug/L	+/-5	U	P	1.5	5
	Potassium	50	ug/L	+/-150	U	P	50	150
	Selenium	5	ug/L	+/-30	U	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
1202036451	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	1.88	ug/L	+/-5	J	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
1202039378	Mercury	0.066	ug/L	+/-0.2	U	AV	0.066	0.2

METALS

-4-

Interference Check Sample

SDG No: 10-1565-1

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	521000	ug/L	500000	ug/L	104	80.0 - 120.0	17-FEB-10 14:18	021710B-1
	Arsenic	4.84	ug/L					17-FEB-10 14:18	021710B-1
	Barium	0.82	ug/L					17-FEB-10 14:18	021710B-1
	Calcium	490000	ug/L	500000	ug/L	98	80.0 - 120.0	17-FEB-10 14:18	021710B-1
	Cobalt	-1.03	ug/L					17-FEB-10 14:18	021710B-1
	Copper	4.22	ug/L					17-FEB-10 14:18	021710B-1
	Iron	193000	ug/L	200000	ug/L	96.7	80.0 - 120.0	17-FEB-10 14:18	021710B-1
	Magnesium	503000	ug/L	500000	ug/L	101	80.0 - 120.0	17-FEB-10 14:18	021710B-1
	Nickel	4.47	ug/L					17-FEB-10 14:18	021710B-1
	Potassium	-157.0	ug/L					17-FEB-10 14:18	021710B-1
	Selenium	-0.0007	ug/L					17-FEB-10 14:18	021710B-1
	Silver	-0.841	ug/L					17-FEB-10 14:18	021710B-1
	Sodium	269	ug/L					17-FEB-10 14:18	021710B-1
	Vanadium	-2.35	ug/L					17-FEB-10 14:18	021710B-1
	Zinc	-1.63	ug/L					17-FEB-10 14:18	021710B-1
ICSAB01									
	Aluminum	504000	ug/L	500000	ug/L	101	80.0 - 120.0	17-FEB-10 14:32	021710B-1
	Arsenic	523	ug/L	500	ug/L	105	80.0 - 120.0	17-FEB-10 14:32	021710B-1
	Barium	488	ug/L	500	ug/L	97.6	80.0 - 120.0	17-FEB-10 14:32	021710B-1
	Calcium	480000	ug/L	500000	ug/L	95.9	80.0 - 120.0	17-FEB-10 14:32	021710B-1
	Cobalt	446	ug/L	500	ug/L	89.2	80.0 - 120.0	17-FEB-10 14:32	021710B-1
	Copper	546	ug/L	500	ug/L	109	80.0 - 120.0	17-FEB-10 14:32	021710B-1
	Iron	188000	ug/L	200000	ug/L	94	80.0 - 120.0	17-FEB-10 14:32	021710B-1
	Magnesium	493000	ug/L	500000	ug/L	98.6	80.0 - 120.0	17-FEB-10 14:32	021710B-1
	Nickel	454	ug/L	500	ug/L	90.8	80.0 - 120.0	17-FEB-10 14:32	021710B-1
	Potassium	5190	ug/L	5000	ug/L	104	80.0 - 120.0	17-FEB-10 14:32	021710B-1
	Selenium	2530	ug/L	2500	ug/L	101	80.0 - 120.0	17-FEB-10 14:32	021710B-1
	Silver	268	ug/L	250	ug/L	107	80.0 - 120.0	17-FEB-10 14:32	021710B-1
	Sodium	5710	ug/L	5000	ug/L	114	80.0 - 120.0	17-FEB-10 14:32	021710B-1

METALS

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Interference Check Sample

SDG No: 10-1565-1

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>
	Vanadium	495	ug/L	500	ug/L	99	80.0 - 120.0	17-FEB-10 14:32	021710B-1
	Zinc	492	ug/L	500	ug/L	98.4	80.0 - 120.0	17-FEB-10 14:32	021710B-1

METALS

-4-

Interference Check Sample

SDG No: 10-1565-1

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	Chromium	-1.18	ug/L					19-FEB-10 17:25	021910B-2
ICSAB01	Chromium	469	ug/L	500	ug/L	93.8	80.0 - 120.0	19-FEB-10 17:32	021910B-2

METALS
-4-
Interference Check Sample

SDG No: 10-1565-1

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	0.055	ug/L					04-MAR-10 11:55	100304-3
ICSAB01	Thallium	19.6	ug/L	20	ug/L	98.1	80.0 - 120.0	04-MAR-10 11:58	100304-3

METALS

-4-

Interference Check Sample

SDG No: 10-1565-1

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Uranium	0.001	ug/L					04-MAR-10 13:33	100304-4
ICSAB01	Uranium	22.2	ug/L	20	ug/L	111	80.0 - 120.0	04-MAR-10 13:35	100304-4

METALS
-4-
Interference Check Sample

SDG No: 10-1565-1

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	0.066	ug/L					04-MAR-10 03:18	100303-5
	Cadmium	0.661	ug/L					04-MAR-10 03:18	100303-5
	Lead	0.237	ug/L					04-MAR-10 03:18	100303-5
ICSAB01									
	Antimony	20.7	ug/L	20	ug/L	104	80.0 - 120.0	04-MAR-10 03:24	100303-5
	Cadmium	19.2	ug/L	20.44	ug/L	93.7	80.0 - 120.0	04-MAR-10 03:24	100303-5
	Lead	21.7	ug/L	20.19	ug/L	108	80.0 - 120.0	04-MAR-10 03:24	100303-5

METALS
-4-
Interference Check Sample

SDG No: 10-1565-1

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	0.096	ug/L					04-MAR-10 12:44	100304-6
	Manganese	5.97	ug/L					04-MAR-10 12:44	100304-6
ICSAB01	Beryllium	19.0	ug/L	20	ug/L	95.2	80.0 - 120.0	04-MAR-10 12:47	100304-6
	Manganese	27.6	ug/L	25.8	ug/L	107	80.0 - 120.0	04-MAR-10 12:47	100304-6

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1565-1 Client ID RE15-10-8328S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 246334001 Spike ID: 1202036428

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75-125	4950		70.6	J	5000	97.6		P
Arsenic	ug/L	75-125	491		5	U	500	98.1		P
Barium	ug/L	75-125	493		2.37	J	500	98.2		P
Calcium	ug/L	75-125	4910		50	U	5000	97.2		P
Chromium	ug/L	75-125	479		1	U	500	95.7		P
Cobalt	ug/L	75-125	471		1	U	500	94.2		P
Copper	ug/L	75-125	485		3	U	500	96.9		P
Iron	ug/L	75-125	4910		71.2	J	5000	96.7		P
Magnesium	ug/L	75-125	5030		85	U	5000	99.6		P
Nickel	ug/L	75-125	483		1.5	U	500	96.5		P
Potassium	ug/L	75-125	4880		115	J	5000	95.3		P
Selenium	ug/L	75-125	490		5.39	J	500	96.9		P
Silver	ug/L	75-125	478		1	U	500	95.5		P
Sodium	ug/L	75-125	4970		134	J	5000	96.8		P
Vanadium	ug/L	75-125	494		1	U	500	98.7		P
Zinc	ug/L	75-125	473		3.3	U	500	94.4		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1565-1 Client ID RE15-10-8328S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 246334001 Spike ID: 1202036454

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Beryllium	ug/L	75-125	49.6		0.1	U	50	99.2		MS
Cadmium	ug/L	75-125	9.69		0.11	U	10	96.8		MS
Lead	ug/L	75-125	42.7		0.5	U	40	106		MS
Manganese	ug/L	75-125	53.3		3.36	J	50	99.9		MS
Antimony	ug/L	75-125	184		1	U	200	92.2		MS
Thallium	ug/L	75-125	94.1		0.3	U	100	94		MS
Uranium	ug/L	75-125	52.8		0.157	J	50	105		MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1565-1 Client ID RE46-10-11893S

Contract: LANL01004 Level: Low

Matrix: WATER % Solids:

Sample ID: 246431001 Spike ID: 1202039381

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75-125	1.93		0.066	U	2	96.7		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1565-1

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE15-10-8328D

Sample ID: 246334001

Duplicate ID: 1202036427

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L		70.6 J		68 U		200		P
Arsenic	ug/L		5 U		5 U				P
Barium	ug/L		2.37 J		1 U		200		P
Calcium	ug/L		50 U		50 U				P
Chromium	ug/L		1 U		1 U				P
Cobalt	ug/L		1 U		1 U				P
Copper	ug/L		3 U		3 U				P
Iron	ug/L	+/-100	71.2 J		51.8 J		31.6		P
Magnesium	ug/L		85 U		101 J		200		P
Nickel	ug/L		1.5 U		1.5 U				P
Potassium	ug/L	+/-150	115 J		117 J		1.81		P
Selenium	ug/L		5.39 J		5 U		200		P
Silver	ug/L		1 U		1 U				P
Sodium	ug/L	+/-300	134 J		104 J		25.8		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.: 10-1565-1

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE15-10-8328D

Sample ID: 246334001

Duplicate ID: 1202036453

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	+/-5	3.36 J		3.09 J		8.38		MS
Thallium	ug/L		0.3 U		0.3 U				MS
Uranium	ug/L		0.157 J		0.05 U		200		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1565-1

Contract: LANL01004

Lab Code: GEL

Matrix: LIQUID

Level: Low

Client ID: RE46-10-11893D

Sample ID: 246431001

Duplicate ID: 1202039380

Percent Solids for Dup: N/A

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

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1565-J

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>
1202036426								
	Aluminum	ug/L	5000	5070		101	80-120	P
	Arsenic	ug/L	500	509		102	80-120	P
	Barium	ug/L	500	501		100	80-120	P
	Calcium	ug/L	5000	5120		102	80-120	P
	Chromium	ug/L	500	487		97.4	80-120	P
	Cobalt	ug/L	500	486		97.3	80-120	P
	Copper	ug/L	500	490		97.9	80-120	P
	Iron	ug/L	5000	5140		103	80-120	P
	Magnesium	ug/L	5000	5230		105	80-120	P
	Nickel	ug/L	500	497		99.5	80-120	P
	Potassium	ug/L	5000	4930		98.7	80-120	P
	Selenium	ug/L	500	513		103	80-120	P
	Silver	ug/L	500	487		97.4	80-120	P
	Sodium	ug/L	5000	5120		102	80-120	P
	Vanadium	ug/L	500	502		100	80-120	P
	Zinc	ug/L	500	482		96.5	80-120	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1565-1

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>
1202036452								
	Beryllium	ug/L	50	50.3		101	80-120	MS
	Cadmium	ug/L	50	46.7		93.4	80-120	MS
	Lead	ug/L	50	50.3		101	80-120	MS
	Manganese	ug/L	50	53.3		107	80-120	MS
	Thallium	ug/L	50	48.2		96.4	80-120	MS
	Uranium	ug/L	50	52.4		105	80-120	MS
	Antimony	ug/L	50	47.9		95.8	80-120	MS

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1565-1

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>
1202039379	Mercury	ug/L	2	1.96		98.2	80-120	AV

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1565-1 Client ID RE15-10-8328L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 246334001 Serial Dilution ID: 1202036429

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	70.6	J	340	U	100			P
Arsenic	5	U	25	U				P
Barium	2.37	J	5	U	100			P
Calcium	50	U	250	U				P
Chromium	1	U	5	U				P
Cobalt	1	U	5	U				P
Copper	3	U	15	U				P
Iron	71.2	J	150	U	100			P
Magnesium	85	U	425	U				P
Nickel	1.5	U	7.5	U				P
Potassium	115	J	250	U	100			P
Selenium	5.39	J	25	U	100			P
Silver	1	U	5	U				P
Sodium	134	J	500	U	100			P
Vanadium	1	U	5	U				P
Zinc	3.3	U	16.5	U				P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1565-1 Client ID RE15-10-8328L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 246334001 Serial Dilution ID: 1202036455

<u>Analyte</u>	<u>Initial Value ug/L</u>	<u>C</u>	<u>Serial Value ug/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Antimony	1	U	5	U				MS
Beryllium	.1	U	.5	U				MS
Cadmium	.11	U	.55	U				MS
Lead	.5	U	2.5	U				MS
Manganese	3.36	J	5	U	100			MS
Thallium	.3	U	5.45					MS
Uranium	.157	J	.25	U	100			MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1565-1 Client ID RE46-10-11893L

Contract: LANL01004

Matrix: LIQUID Level: Low

Sample ID: 246431001 Serial Dilution ID: 1202039382

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Mercury	.066	U	.33	U				AV

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1565-1

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 950315							
1202036425	MB for batch 950315	MB	W	15-FEB-10	50mL	50mL	
1202036426	LCS for batch 950315	LCS	W	15-FEB-10	50mL	50mL	
1202036428	RE15-10-8328S	MS	W	15-FEB-10	50mL	50mL	
1202036427	RE15-10-8328D	DUP	W	15-FEB-10	50mL	50mL	
246323001	RE15-10-7344	SAMPLE	W	15-FEB-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1565-1

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	950323						
1202036451	MB for batch 950323	MB	W	15-FEB-10	50mL	50mL	
1202036452	LCS for batch 950323	LCS	W	15-FEB-10	50mL	50mL	
1202036454	RE15-10-8328S	MS	W	15-FEB-10	50mL	50mL	
1202036453	RE15-10-8328D	DUP	W	15-FEB-10	50mL	50mL	
246323001	RE15-10-7344	SAMPLE	W	15-FEB-10	50mL	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1565-1

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	951592						
1202039378	MB for batch 951592	MB	W	16-FEB-10	20mL	20mL	
1202039379	LCS for batch 951592	LCS	W	16-FEB-10	20mL	20mL	
1202039381	RE46-10-11893S	MS	W	16-FEB-10	20mL	20mL	
1202039380	RE46-10-11893D	DUP	W	16-FEB-10	20mL	20mL	
246323001	RE15-10-7344	SAMPLE	W	16-FEB-10	20mL	20mL	

SW846

Metals
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Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 04-MAR-10

End Date: 04-MAR-10

Client Sdg: 10-1565-1

Method MS

Data File: 100303-5

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Ti	U	V	Zn
S0.0	1	02:41		X				X						X												
S10	1	02:47		X				X						X												
S100	1	02:53		X				X						X												
ICV01	1	02:59		X				X						X												
ICB01	1	03:05		X				X						X												
CRDL01	1	03:12		X				X						X												
ICSA01	1	03:18		X				X						X												
ICSAB01	1	03:24		X				X						X												
CCV01	1	03:30		X				X						X												
CCB01	1	03:36		X				X						X												
LR01	1	03:42		X				X						X												
CCV02	1	03:48		X				X						X												
CCB02	1	03:54		X				X						X												
ZZZZZZ	2	04:00																								
ZZZZZZ	40	04:07																								
ZZZZZZ	2	04:13																								
ZZZZZZ	2	04:19																								
ZZZZZZ	2	04:25																								
ZZZZZZ	2	04:31																								
ZZZZZZ	10	04:37																								
CCV03	1	04:44		X				X						X												
CCB03	1	04:50		X				X						X												
ZZZZZZ	2	04:56																								
ZZZZZZ	2	05:02																								
ZZZZZZ	2	05:08																								
ZZZZZZ	2	05:14																								
CCV04	1	05:20		X				X						X												
CCB04	1	05:27		X				X						X												
1202036451	1	05:33		X				X						X												
1202036452	1	05:39		X				X						X												
246323001	1	05:45		X				X						X												
ZZZZZZ	1	05:51																								
1202036453	1	05:57		X				X						X												
1202036454	1	06:04		X				X						X												
1202036455	5	06:10		X				X						X												
CCV05	1	06:16		X				X						X												
CCB05	1	06:22		X				X						X												

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 04-MAR-10

End Date: 04-MAR-10

Client Sdg: 10-1565-1

Method MS

Data File: 100304-6

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	12:31					X									X										
S10	1	12:33					X									X										
S100	1	12:35					X									X										
ICV01	1	12:37					X									X										
ICB01	1	12:40					X									X										
CRDL01	1	12:42					X									X										
ICSA01	1	12:44					X									X										
ICSAB01	1	12:47					X									X										
CCV01	1	12:49					X									X										
CCB01	1	12:51					X									X										
1202036451	1	12:54					X									X										
1202036452	1	12:56					X									X										
246323001	1	12:59					X									X										
ZZZZZZ	1	13:01																								
1202036453	1	13:03					X									X										
1202036454	1	13:06					X									X										
1202036455	5	13:08					X									X										
CCV02	1	13:11					X									X										
CCB02	1	13:13					X									X										

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 17-FEB-10

End Date: 17-FEB-10

Client Sdg: 10-1565-1

Method P

Data File: 021710B-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	Ti	U	V	Zn
S0.0	1	13:25	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
S0.1	1	13:32			X	X					X	X						X	X	X	X				X	X
S0.5	1	13:38	X		X	X			X		X	X			X			X	X	X	X				X	X
SCAL	1	13:45	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
S10	1	13:52	X						X				X		X							X				
ICV01	1	13:58	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
ICB01	1	14:04	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
PQL01	1	14:11	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
ICSA01	1	14:18	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
ICSAB01	1	14:32	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
LR01	1	14:38	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
LR02	1	14:49	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
CCV01	1	14:56	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
CCB01	1	15:03	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
LR03	1	15:11	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
LR04	1	15:18	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
CCV02	1	15:25	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
CCB02	1	15:32	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
CCV03	1	15:54	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
CCB03	1	16:01	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	16:07																								
ZZZZZZ	1	16:14																								
ZZZZZZ	1	16:21																								
ZZZZZZ	1	16:28																								
ZZZZZZ	1	16:35																								
ZZZZZZ	1	16:41																								
ZZZZZZ	1	16:48																								
ZZZZZZ	1	16:55																								
ZZZZZZ	5	17:02																								
ZZZZZZ	1	17:09																								
CCV04	1	17:15	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
CCB04	1	17:22	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	17:29																								
ZZZZZZ	1	17:36																								
ZZZZZZ	1	17:43																								
ZZZZZZ	1	17:50																								
ZZZZZZ	1	17:57																								
ZZZZZZ	1	18:04																								
CCV05	1	18:11	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
CCB05	1	18:18	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X

Metals
-14-
Analysis Run Log

[illegible]

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
246323001	1	23:02	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
ZZZZZZ	1	23:08																								
1202036427	1	23:15	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
1202036428	1	23:22	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
1202036429	1	23:29	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
CCV11	1	23:36	X		X	X			X		X	X	X		X			X	X	X	X	X			X	X
CCB11	1	23:43	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: OPTIMA3

Start Date: 19-FEB-10

End Date: 20-FEB-10

Client Sdg: 10-1565-1

Method P

Data File: 021910B-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	Ti	U	V	Zn
S0.0	1	16:32								X																
S0.1	1	16:39								X																
S0.5	1	16:45								X																
SCAL	1	16:52								X																
S10	1	16:59																								
ICV01	1	17:05								X																
ICB01	1	17:12								X																
PQL01	1	17:18								X																
ICSA01	1	17:25								X																
ICSAB01	1	17:32								X																
LR01	1	17:39								X																
LR02	1	17:46								X																
CCV01	1	17:53								X																
CCB01	1	18:00								X																
LR03	1	18:06								X																
CCV02	1	18:13								X																
CCB02	1	18:20								X																
ZZZZZZ	1	18:27																								
ZZZZZZ	1	18:34																								
ZZZZZZ	1	18:41																								
ZZZZZZ	1	18:48																								
ZZZZZZ	1	18:54																								
ZZZZZZ	1	19:01																								
ZZZZZZ	5	19:08																								
CCV03	1	19:15								X																
CCB03	1	19:22								X																
ZZZZZZ	1	19:29																								
ZZZZZZ	1	19:36																								
ZZZZZZ	1	19:43																								
ZZZZZZ	1	19:49																								
ZZZZZZ	1	19:56																								
ZZZZZZ	1	20:03																								
ZZZZZZ	1	20:10																								
CCV04	1	20:17								X																
CCB04	1	20:24								X																
ZZZZZZ	1	20:31																								
ZZZZZZ	1	20:37																								
ZZZZZZ	1	20:44																								
ZZZZZZ	1	20:51																								
ZZZZZZ	1	20:58																								

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
CCV09	1	01:38								X																
CCB09	1	01:45								X																
ZZZZZZ	1	01:52																								
ZZZZZZ	1	01:59																								
ZZZZZZ	1	02:06																								
ZZZZZZ	1	02:12																								
ZZZZZZ	1	02:19																								
ZZZZZZ	5	02:26																								
ZZZZZZ	1	02:33																								
CCV10	1	02:40								X																
CCB10	1	02:47								X																
ZZZZZZ	1	02:54																								
ZZZZZZ	1	03:00																								
ZZZZZZ	1	03:07																								
ZZZZZZ	1	03:15																								
ZZZZZZ	1	03:22																								
ZZZZZZ	5	03:29																								
CCV11	1	03:36								X																
CCB11	1	03:43								X																
ZZZZZZ	1	03:50																								
ZZZZZZ	1	03:57																								
ZZZZZZ	1	04:04																								
ZZZZZZ	1	04:12																								
ZZZZZZ	1	04:19																								
CCV12	1	04:27								X																
CCB12	1	04:34								X																
1202036425	1	04:41								X																
1202036426	1	04:47								X																
246323001	1	04:54								X																
ZZZZZZ	1	05:01																								
1202036427	1	05:08								X																
1202036428	1	05:15								X																
1202036429	5	05:22								X																
CCV13	1	05:28								X																
CCB13	1	05:35								X																

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: HG3

Start Date: 17-FEB-10

End Date: 17-FEB-10

Client Sdg: 10-1565-1

Method: AV

Data File: 021710W2-7

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	09:36															X									
S0.2	1	09:38															X									
S0.5	1	09:40															X									
S2.0	1	09:42															X									
S5.0	1	09:44															X									
S10.0	1	09:46															X									
ICV01	1	09:48															X									
ICB01	1	09:50															X									
CRDL01	1	09:52															X									
CCV01	1	09:54															X									
CCB01	1	09:56															X									
ZZZZZZ	1	09:57																								
ZZZZZZ	1	09:59																								
ZZZZZZ	1	10:01																								
ZZZZZZ	1	10:03																								
ZZZZZZ	1	10:05																								
ZZZZZZ	1	10:07																								
ZZZZZZ	1	10:09																								
ZZZZZZ	1	10:11																								
ZZZZZZ	1	10:13																								
ZZZZZZ	5	10:15																								
CCV02	1	10:17															X									
CCB02	1	10:19															X									
ZZZZZZ	1	10:20																								
ZZZZZZ	1	10:22																								
ZZZZZZ	1	10:24																								
ZZZZZZ	1	10:26																								
ZZZZZZ	1	10:28																								
ZZZZZZ	1	10:30																								
ZZZZZZ	1	10:32																								
ZZZZZZ	1	10:34																								
ZZZZZZ	1	10:36																								
ZZZZZZ	1	10:38																								
CCV03	1	10:40															X									
CCB03	1	10:42															X									
ZZZZZZ	1	10:44																								
ZZZZZZ	1	10:45																								
ZZZZZZ	5	10:47																								
1202039378	1	10:49															X									
1202039379	1	10:51															X									

Samp No.	D/F	Run Time
246323001	1	10:53
ZZZZZZ	1	10:55
ZZZZZZ	1	10:57
1202039380	1	10:59
1202039381	1	11:01
CCV04	1	11:03
CCB04	1	11:05
1202039382	5	11:07
ZZZZZZ	1	11:09
ZZZZZZ	1	11:11
ZZZZZZ	1	11:12
ZZZZZZ	1	11:14
ZZZZZZ	1	11:16
ZZZZZZ	1	11:18
ZZZZZZ	1	11:20
ZZZZZZ	1	11:22
ZZZZZZ	1	11:24
CCV05	1	11:26
CCB05	1	11:28

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS3

Start Date: 04-MAR-10

End Date: 04-MAR-10

Client Sdg: 10-1565-1

Method MS

Data File: 100304-3

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	11:39																					X			
S10	1	11:41																					X			
S100	1	11:44																					X			
ICV01	1	11:47																					X			
ICB01	1	11:50																					X			
CRDL01	1	11:52																					X			
JCSA01	1	11:55																					X			
JCSAB01	1	11:58																					X			
CCV01	1	12:01																					X			
CCB01	1	12:04																					X			
ZZZZZZ	2	12:06																								
ZZZZZZ	40	12:09																								
ZZZZZZ	2	12:12																								
ZZZZZZ	2	12:15																								
ZZZZZZ	2	12:17																								
ZZZZZZ	2	12:20																								
ZZZZZZ	10	12:23																								
CCV02	1	12:26																					X			
CCB02	1	12:29																					X			
ZZZZZZ	2	12:31																								
ZZZZZZ	2	12:34																								
ZZZZZZ	2	12:37																								
ZZZZZZ	2	12:40																								
ZZZZZZ	2	12:42																								
ZZZZZZ	2	12:45																								
CCV03	1	12:48																					X			
CCB03	1	12:51																					X			
1202036451	1	12:54																					X			
1202036452	1	12:56																					X			
ZZZZZZ	1	12:59																								
ZZZZZZ	1	13:02																								
1202036453	1	13:05																					X			
1202036454	1	13:08																					X			
1202036455	5	13:11																					X			
246323001	1	13:13																					X			
CCV04	1	13:16																					X			
CCB04	1	13:19																					X			

Metals
-14-
Analysis Run Log

Contract: LANL01004**Lab Code:** GEL**Inst Name:** ICPMS3**Start Date:** 04-MAR-10**Client Sdg:** 10-1565-1**Method:** MS**Data File:** 100304-4**End Date:** 04-MAR-10

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Ti	U	V	Zn
S0.0	1	13:22																						X		
S10	1	13:24																						X		
S100	1	13:26																						X		
ICV01	1	13:28																						X		
ICB01	1	13:29																						X		
CRDL01	1	13:31																						X		
ICSA01	1	13:33																						X		
ICSAB01	1	13:35																						X		
CCV01	1	13:37																						X		
CCB01	1	13:39																						X		
1202036451	1	13:42																						X		
1202036452	1	13:44																						X		
246323001	1	13:47																						X		
ZZZZZ	1	13:49																								
1202036453	1	13:51																						X		
1202036454	1	13:53																						X		
1202036455	5	13:55																						X		
CCV02	1	13:57																						X		
CCB02	1	13:59																						X		

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1565-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP/MS	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
LIQUID	Aluminum		15.0	30
	Antimony		1.0	3
	Arsenic		1.6	5
	Barium		0.6	2
	Beryllium		0.1	.5
	Cadmium		0.11	1
	Calcium		65.0	200
	Chromium		2.0	10
	Cobalt		0.1	1
	Copper		0.33	1
	Iron		33.0	100
	Lead		0.5	2
	Magnesium		5.2	15
	Manganese		1.0	5
	Nickel		0.5	2
	Potassium		80.0	300
	Selenium		1.0	5
	Silver		0.2	1
	Sodium		80.0	250
	Thallium		0.3	1
	Uranium		0.05	.2
	Vanadium		3.0	10
	Zinc		3.0	10

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1565-1

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

		<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
MERCURY	<u>Analyte</u>			
LIQUID	Mercury		0.066	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1565-1

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: **10-1565-1**Contract: LANL01004Instrument: OPTIMA3Effective 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: 10-1565-1

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Boron	Cadmium	Chromium	Cobalt	Copper
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	2.85580	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.44491	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	-29.9151	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.57616
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.60374	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	198.62
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	4.37985	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.36147	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	2.23785	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.36818	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.35273

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1565-1**Contract: LANL01004Instrument: OPTIMA3Effective 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

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Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1565-1

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: **10-1565-1**

Contract: LANL01004

Instrument: OPTIMA3

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

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Silicon	Silver	Strontium	Sulfur	Thallium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1565-1**

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
-12-
Linear Ranges

SDG NO. 10-1565-1

Contract: LANL01004

Lab Code: GEL

Instrument IDICPMS5

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Antimony	1000	250	ug/L	01-FEB-10
Arsenic	1000	1000	ug/L	01-FEB-10
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10
Silver	1000	250	ug/L	01-FEB-10
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10
Aluminum	1	50000	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-1565-1

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>
Magnesium	20	500000	ug/L	01-FEB-10
Manganese	20	10000	ug/L	01-FEB-10
Nickel	20	10000	ug/L	01-FEB-10
Potassium	20	300000	ug/L	01-FEB-10
Selenium	20	10000	ug/L	01-FEB-10
Silver	20	1000	ug/L	01-FEB-10
Sodium	20	500000	ug/L	01-FEB-10
Thallium	20	10000	ug/L	01-FEB-10
Uranium	20	15000	ug/L	01-FEB-10
Vanadium	20	10000	ug/L	01-FEB-10
Zinc	20	15000	ug/L	01-FEB-10
Aluminum	20	500000	ug/L	01-FEB-10
Antimony	20	10000	ug/L	01-FEB-10
Arsenic	20	10000	ug/L	01-FEB-10
Barium	20	15000	ug/L	01-FEB-10
Beryllium	20	3000	ug/L	01-FEB-10
Cadmium	20	10000	ug/L	01-FEB-10
Calcium	20	500000	ug/L	01-FEB-10
Chromium	20	25000	ug/L	01-FEB-10
Cobalt	20	10000	ug/L	01-FEB-10
Copper	20	20000	ug/L	01-FEB-10
Iron	20	500000	ug/L	01-FEB-10
Lead	20	25000	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-1565-1

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS3

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	1	50000	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10
Arsenic	1000	1000	ug/L	01-FEB-10
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10
Silver	1000	250	ug/L	01-FEB-10
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10

Raw Data

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Reprocessing Begun

Logged In Analyst: Optima3

Technique: ICP Continuous

Results Data Set (original): 021710A

Results Library (original): C:\pe\Optima3\Results\Results.mdb

Results Data Set (reprocessed): 021710B

Results Library (reprocessed): C:\pe\Optima3\Results\Results.mdb

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Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 2/17/2010 15:39:33

IEC File: 011110.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc Radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

=====

Sequence No.: 1

Sample ID: S0

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/17/2010 13:25:46

Data Type: Reprocessed on 2/17/2010 15:41:00

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc 361.383	792965.2	792965.2	99.650 %	13:28:55
1	Sc Radial	3957.6	3957.6	99.5 %	13:27:38
1	Y 371.029	641331.2	641331.2	99.741 %	13:28:55
1	Y RADIAL	4134.3	4134.3	100.1 %	13:27:38
1	Ag 328.068†	230.8	231.7	[0.00] ug/L	13:28:55

1	Al 396.153Radial†	-150.9	-151.6	[0.00]	ug/L	13:27:38
1	As 188.979†	-31.2	-31.3	[0.00]	ug/L	13:29:15
1	B 249.677†	58.1	58.3	[0.00]	ug/L	13:28:55
1	Ba 233.527†	23.0	23.1	[0.00]	ug/L	13:29:15
1	Be 313.107†	-4221.2	-4236.0	[0.00]	ug/L	13:28:55
1	Ca 317.933Radial†	20.7	20.8	[0.00]	ug/L	13:27:58
1	Cd 226.502†	-214.0	-214.8	[0.00]	ug/L	13:29:15
1	Co 228.616†	-72.6	-72.9	[0.00]	ug/L	13:29:15
1	Cr 267.716†	715.6	718.2	[0.00]	ug/L	13:29:15
1	Cu 324.752†	8311.0	8340.2	[0.00]	ug/L	13:28:55
1	Fe 238.204 Radial†	12.8	12.8	[0.00]	ug/L	13:27:58
1	K 766.490 Radial†	3201.8	3216.5	[0.00]	ug/L	13:27:38
1	Mg 279.077 IEC†	2.3	2.4	[0.00]	ug/L	13:27:58
1	Mn 257.610†	530.4	532.3	[0.00]	ug/L	13:29:15
1	Mo 202.031†	22.3	22.4	[0.00]	ug/L	13:29:15
1	Na 589.592 Radial†	-126.2	-126.7	[0.00]	ug/L	13:27:38
1	Ni 231.604†	89.0	89.3	[0.00]	ug/L	13:29:15
1	P 214.914†	233.7	234.5	[0.00]	ug/L	13:29:15
1	Pb 220.353†	-26.6	-26.7	[0.00]	ug/L	13:29:15
1	S 181.975 Axial†	57.8	58.0	[0.00]	ug/L	13:29:15
1	Sb 206.836†	38.6	38.7	[0.00]	ug/L	13:29:15
1	Se 196.026†	-25.9	-26.0	[0.00]	ug/L	13:29:15
1	Si 251.611†	569.0	571.0	[0.00]	ug/L	13:29:15
1	Sn 189.927†	38.8	39.0	[0.00]	ug/L	13:29:15
1	Sr 421.552†	108.8	109.3	[0.00]	ug/L	13:27:38
1	Ti 334.940†	-1543.1	-1548.5	[0.00]	ug/L	13:28:55
1	Tl 190.801†	-17.0	-17.0	[0.00]	ug/L	13:29:15
1	U 409.014†	-3531.5	-3543.9	[0.00]	ug/L	13:28:55
1	V 292.402†	-1756.6	-1762.8	[0.00]	ug/L	13:28:55
1	Zn 213.857†	859.6	862.6	[0.00]	ug/L	13:29:15
1	SiO2†	600.4	602.5	[0.00]	ug/L	13:30:11
2	Sc 361.383	799345.5	799345.5	100.45	%	13:29:21
2	Sc Radial	3977.0	3977.0	100	%	13:28:03
2	Y 371.029	645940.9	645940.9	100.46	%	13:29:21
2	Y RADIAL	4121.6	4121.6	99.77	%	13:28:03
2	Ag 328.068†	159.0	158.3	[0.00]	ug/L	13:29:21
2	Al 396.153Radial†	-119.9	-119.8	[0.00]	ug/L	13:28:03
2	As 188.979†	-22.7	-22.6	[0.00]	ug/L	13:29:41
2	B 249.677†	43.7	43.5	[0.00]	ug/L	13:29:21
2	Ba 233.527†	1.0	1.0	[0.00]	ug/L	13:29:41
2	Be 313.107†	-4219.6	-4200.7	[0.00]	ug/L	13:29:21
2	Ca 317.933Radial†	32.7	32.7	[0.00]	ug/L	13:28:23
2	Cd 226.502†	-213.1	-212.2	[0.00]	ug/L	13:29:41
2	Co 228.616†	-83.2	-82.8	[0.00]	ug/L	13:29:41
2	Cr 267.716†	683.5	680.4	[0.00]	ug/L	13:29:41
2	Cu 324.752†	8336.9	8299.4	[0.00]	ug/L	13:29:21
2	Fe 238.204 Radial†	11.1	11.1	[0.00]	ug/L	13:28:23
2	K 766.490 Radial†	3219.5	3218.5	[0.00]	ug/L	13:28:03
2	Mg 279.077 IEC†	-0.0	-0.0	[0.00]	ug/L	13:28:23
2	Mn 257.610†	567.2	564.7	[0.00]	ug/L	13:29:41
2	Mo 202.031†	19.4	19.3	[0.00]	ug/L	13:29:41
2	Na 589.592 Radial†	-33.2	-33.2	[0.00]	ug/L	13:28:03
2	Ni 231.604†	90.4	90.0	[0.00]	ug/L	13:29:41
2	P 214.914†	247.0	245.8	[0.00]	ug/L	13:29:41
2	Pb 220.353†	-10.5	-10.4	[0.00]	ug/L	13:29:41
2	S 181.975 Axial†	68.9	68.6	[0.00]	ug/L	13:29:41
2	Sb 206.836†	47.6	47.4	[0.00]	ug/L	13:29:41
2	Se 196.026†	-26.1	-25.9	[0.00]	ug/L	13:29:41
2	Si 251.611†	562.7	560.2	[0.00]	ug/L	13:29:41
2	Sn 189.927†	28.5	28.4	[0.00]	ug/L	13:29:41
2	Sr 421.552†	126.0	126.0	[0.00]	ug/L	13:28:03
2	Ti 334.940†	-1561.6	-1554.6	[0.00]	ug/L	13:29:21
2	Tl 190.801†	-21.4	-21.3	[0.00]	ug/L	13:29:41
2	U 409.014†	-3577.4	-3561.4	[0.00]	ug/L	13:29:21
2	V 292.402†	-1761.8	-1753.9	[0.00]	ug/L	13:29:21
2	Zn 213.857†	861.0	857.1	[0.00]	ug/L	13:29:41
2	SiO2†	588.4	585.7	[0.00]	ug/L	13:30:16
3	Sc 361.383	794947.3	794947.3	99.899	%	13:29:46
3	Sc Radial	3992.8	3992.8	100	%	13:28:29
3	Y 371.029	641721.1	641721.1	99.801	%	13:29:46
3	Y RADIAL	4137.0	4137.0	100.1	%	13:28:29

3	Ag 328.068†	166.8	167.0	[0.00]	ug/L	13:29:46
3	Al 396.153Radial†	-154.9	-154.2	[0.00]	ug/L	13:28:29
3	As 188.979†	-28.9	-29.0	[0.00]	ug/L	13:30:06
3	B 249.677†	72.2	72.3	[0.00]	ug/L	13:29:46
3	Ba 233.527†	-4.8	-4.8	[0.00]	ug/L	13:30:06
3	Be 313.107†	-4274.2	-4278.5	[0.00]	ug/L	13:29:46
3	Ca 317.933Radial†	19.3	19.2	[0.00]	ug/L	13:28:49
3	Cd 226.502†	-198.8	-199.0	[0.00]	ug/L	13:30:06
3	Co 228.616†	-79.6	-79.7	[0.00]	ug/L	13:30:06
3	Cr 267.716†	692.3	693.0	[0.00]	ug/L	13:30:06
3	Cu 324.752†	8308.8	8317.2	[0.00]	ug/L	13:29:46
3	Fe 238.204 Radial†	9.2	9.2	[0.00]	ug/L	13:28:49
3	K 766.490 Radial†	3202.6	3189.0	[0.00]	ug/L	13:28:29
3	Mg 279.077 IEC†	1.7	1.7	[0.00]	ug/L	13:28:49
3	Mn 257.610†	556.8	557.3	[0.00]	ug/L	13:30:06
3	Mo 202.031†	21.5	21.6	[0.00]	ug/L	13:30:06
3	Na 589.592 Radial†	-151.8	-151.1	[0.00]	ug/L	13:28:29
3	Ni 231.604†	95.4	95.5	[0.00]	ug/L	13:30:06
3	P 214.914†	249.4	249.6	[0.00]	ug/L	13:30:06
3	Pb 220.353†	-10.7	-10.7	[0.00]	ug/L	13:30:06
3	S 181.975 Axial†	58.4	58.5	[0.00]	ug/L	13:30:06
3	Sb 206.836†	45.8	45.8	[0.00]	ug/L	13:30:06
3	Se 196.026†	-27.4	-27.5	[0.00]	ug/L	13:30:06
3	Si 251.611†	865.8	866.7	[0.00]	ug/L	13:30:06
3	Sn 189.927†	39.7	39.7	[0.00]	ug/L	13:30:06
3	Sr 421.552†	100.1	99.7	[0.00]	ug/L	13:28:29
3	Ti 334.940†	-1702.2	-1703.9	[0.00]	ug/L	13:29:46
3	Tl 190.801†	-25.7	-25.7	[0.00]	ug/L	13:30:06
3	U 409.014†	-3609.7	-3613.4	[0.00]	ug/L	13:29:46
3	V 292.402†	-1797.2	-1799.0	[0.00]	ug/L	13:29:46
3	Zn 213.857†	865.0	865.9	[0.00]	ug/L	13:30:06
3	SiO2†	585.0	585.6	[0.00]	ug/L	13:30:21

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	795752.7	3265.49	0.41%	100.00	%
Sc Radial	3975.8	17.62	0.44%	100	%
Y 371.029	642997.7	2556.28	0.40%	100.00	%
Y RADIAL	4131.0	8.24	0.20%	100.0	%
Ag 328.068†	185.6	40.09	21.60%	[0.00]	ug/L
Al 396.153Radial†	-141.9	19.15	13.49%	[0.00]	ug/L
As 188.979†	-27.7	4.51	16.30%	[0.00]	ug/L
B 249.677†	58.0	14.38	24.78%	[0.00]	ug/L
Ba 233.527†	6.4	14.73	229.17%	[0.00]	ug/L
Be 313.107†	-4238.4	38.99	0.92%	[0.00]	ug/L
Ca 317.933Radial†	24.3	7.38	30.45%	[0.00]	ug/L
Cd 226.502†	-208.6	8.47	4.06%	[0.00]	ug/L
Co 228.616†	-78.5	5.09	6.49%	[0.00]	ug/L
Cr 267.716†	697.2	19.23	2.76%	[0.00]	ug/L
Cu 324.752†	8318.9	20.46	0.25%	[0.00]	ug/L
Fe 238.204 Radial†	11.0	1.82	16.54%	[0.00]	ug/L
K 766.490 Radial†	3208.0	16.49	0.51%	[0.00]	ug/L
Mg 279.077 IEC†	1.4	1.24	91.96%	[0.00]	ug/L
Mn 257.610†	551.4	17.00	3.08%	[0.00]	ug/L
Mo 202.031†	21.1	1.59	7.53%	[0.00]	ug/L
Na 589.592 Radial†	-103.7	62.25	60.03%	[0.00]	ug/L
Ni 231.604†	91.6	3.38	3.69%	[0.00]	ug/L
P 214.914†	243.3	7.86	3.23%	[0.00]	ug/L
Pb 220.353†	-16.0	9.32	58.35%	[0.00]	ug/L
S 181.975 Axial†	61.7	5.98	9.70%	[0.00]	ug/L
Sb 206.836†	44.0	4.62	10.50%	[0.00]	ug/L
Se 196.026†	-26.5	0.87	3.28%	[0.00]	ug/L
Si 251.611†	665.9	173.95	26.12%	[0.00]	ug/L
Sn 189.927†	35.7	6.34	17.76%	[0.00]	ug/L
Sr 421.552†	111.7	13.31	11.92%	[0.00]	ug/L
Ti 334.940†	-1602.3	88.02	5.49%	[0.00]	ug/L
Tl 190.801†	-21.4	4.34	20.31%	[0.00]	ug/L
U 409.014†	-3572.9	36.13	1.01%	[0.00]	ug/L
V 292.402†	-1771.9	23.91	1.35%	[0.00]	ug/L

Zn 213.857†	861.9	4.43	0.51%	[0.00] ug/L
SiO2†	591.3	9.71	1.64%	[0.00] ug/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Logged In Analyst (Original) : Optima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 2/17/2010 13:32:32
 Data Type: Reprocessed on 2/17/2010 15:41:02
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc 361.383	790133.2	790133.2	99.294 %	13:34:56
1	Sc Radial	4005.8	4005.8	101 %	13:34:29
1	Y 371.029	637778.5	637778.5	99.188 %	13:34:56
1	Y RADIAL	4159.1	4159.1	100.7 %	13:34:29
1	Ag 328.068†	19435.2	19387.8	[100] ug/L	13:34:56
1	As 188.979†	212.6	241.8	[100] ug/L	13:35:16
1	B 249.677†	4098.6	4069.7	[100] ug/L	13:34:56
1	Ba 233.527†	11879.5	11957.5	[100] ug/L	13:34:56
1	Be 313.107†	257782.3	263854.0	[100] ug/L	13:34:56
1	Cd 226.502†	7911.4	8176.3	[100] ug/L	13:35:16
1	Co 228.616†	4695.9	4807.8	[100] ug/L	13:35:16
1	Cr 267.716†	8560.1	7923.8	[100] ug/L	13:35:16
1	Cu 324.752†	39246.9	31207.1	[100] ug/L	13:34:56
1	K 766.490 Radial†	7572.4	4307.7	[1000] ug/L	13:34:24
1	Mn 257.610†	87041.4	87109.0	[100] ug/L	13:34:56
1	Mo 202.031†	1317.1	1305.4	[100] ug/L	13:35:16
1	Ni 231.604†	3843.5	3779.2	[100] ug/L	13:35:16
1	P 214.914†	1160.1	925.0	[500] ug/L	13:35:16
1	Pb 220.353†	762.1	783.5	[100] ug/L	13:35:16
1	S 181.975 Axial†	208.8	148.6	[200] ug/L	13:35:16
1	Sb 206.836†	332.4	290.8	[100] ug/L	13:35:16
1	Se 196.026†	146.2	173.7	[100] ug/L	13:35:16
1	Si 251.611†	16153.8	15602.8	[500] ug/L	13:34:56
1	Sn 189.927†	570.4	538.8	[100] ug/L	13:35:16
1	Sr 421.552†	11775.0	11575.2	[100] ug/L	13:34:29
1	Ti 334.940†	58758.9	60779.1	[100] ug/L	13:34:56
1	Tl 190.801†	294.2	317.7	[100] ug/L	13:35:16
1	U 409.014†	-548.9	3020.1	[100] ug/L	13:34:56
1	V 292.402†	10798.4	12647.1	[100] ug/L	13:34:56
1	Zn 213.857†	10747.7	9962.2	[100] ug/L	13:35:16
1	SiO2†	16401.9	15927.3	[1069.5] ug/L	13:36:12
2	Sc 361.383	761602.4	761602.4	95.708 %	13:35:22
2	Sc Radial	3998.8	3998.8	101 %	13:34:39
2	Y 371.029	614566.2	614566.2	95.578 %	13:35:22
2	Y RADIAL	4112.2	4112.2	99.55 %	13:34:39
2	Ag 328.068†	19935.0	20643.2	[100] ug/L	13:35:22
2	As 188.979†	212.6	249.8	[100] ug/L	13:35:42
2	B 249.677†	4183.5	4313.1	[100] ug/L	13:35:22
2	Ba 233.527†	12202.6	12743.3	[100] ug/L	13:35:22
2	Be 313.107†	265212.8	281343.4	[100] ug/L	13:35:22
2	Cd 226.502†	8106.7	8678.9	[100] ug/L	13:35:42
2	Co 228.616†	4837.6	5133.0	[100] ug/L	13:35:42
2	Cr 267.716†	8743.2	8438.0	[100] ug/L	13:35:42
2	Cu 324.752†	40201.0	33684.7	[100] ug/L	13:35:22
2	K 766.490 Radial†	7693.2	4441.0	[1000] ug/L	13:34:34
2	Mn 257.610†	89185.1	92632.8	[100] ug/L	13:35:22
2	Mo 202.031†	1342.6	1381.7	[100] ug/L	13:35:42
2	Ni 231.604†	3961.0	4047.0	[100] ug/L	13:35:42
2	P 214.914†	1196.5	1006.8	[500] ug/L	13:35:42
2	Pb 220.353†	774.7	825.4	[100] ug/L	13:35:42
2	S 181.975 Axial†	220.2	168.4	[200] ug/L	13:35:42
2	Sb 206.836†	339.0	310.2	[100] ug/L	13:35:42
2	Se 196.026†	155.3	188.7	[100] ug/L	13:35:42
2	Si 251.611†	16529.2	16604.4	[500] ug/L	13:35:22
2	Sn 189.927†	599.6	590.8	[100] ug/L	13:35:42
2	Sr 421.552†	11754.7	11575.6	[100] ug/L	13:34:39
2	Ti 334.940†	60312.0	64618.8	[100] ug/L	13:35:22
2	Tl 190.801†	292.3	326.8	[100] ug/L	13:35:42

2	U 409.014†	-375.8	3180.3	[100]	ug/L	13:35:22
2	V 292.402†	11206.0	13480.4	[100]	ug/L	13:35:22
2	Zn 213.857†	11029.5	10662.2	[100]	ug/L	13:35:42
2	SiO2†	16261.9	16399.8	[1069.5]	ug/L	13:36:17
3	Sc 361.383	839960.4	839960.4	105.56	%	13:35:47
3	Sc Radial	4013.6	4013.6	101	%	13:34:49
3	Y 371.029	676780.1	676780.1	105.25	%	13:35:47
3	Y RADIAL	4138.3	4138.3	100.2	%	13:34:49
3	Ag 328.068†	19367.8	18162.9	[100]	ug/L	13:35:47
3	As 188.979†	218.7	234.8	[100]	ug/L	13:36:07
3	B 249.677†	4110.4	3836.0	[100]	ug/L	13:35:47
3	Ba 233.527†	11830.6	11201.5	[100]	ug/L	13:35:47
3	Be 313.107†	257223.6	247924.1	[100]	ug/L	13:35:47
3	Cd 226.502†	7895.5	7688.6	[100]	ug/L	13:36:07
3	Co 228.616†	4687.2	4519.0	[100]	ug/L	13:36:07
3	Cr 267.716†	8542.2	7395.5	[100]	ug/L	13:36:07
3	Cu 324.752†	39308.7	28920.9	[100]	ug/L	13:35:47
3	K 766.490 Radial†	7620.8	4341.1	[1000]	ug/L	13:34:44
3	Mn 257.610†	86604.9	81495.4	[100]	ug/L	13:35:47
3	Mo 202.031†	1306.7	1216.8	[100]	ug/L	13:36:07
3	Ni 231.604†	3888.8	3592.5	[100]	ug/L	13:36:07
3	P 214.914†	1148.5	844.7	[500]	ug/L	13:36:07
3	Pb 220.353†	757.0	733.2	[100]	ug/L	13:36:07
3	S 181.975 Axial†	216.0	143.0	[200]	ug/L	13:36:07
3	Sb 206.836†	327.3	266.1	[100]	ug/L	13:36:07
3	Se 196.026†	145.8	164.6	[100]	ug/L	13:36:07
3	Si 251.611†	16179.5	14662.1	[500]	ug/L	13:35:47
3	Sn 189.927†	580.7	514.4	[100]	ug/L	13:36:07
3	Sr 421.552†	11797.5	11574.8	[100]	ug/L	13:34:49
3	Ti 334.940†	58496.8	57020.4	[100]	ug/L	13:35:47
3	Tl 190.801†	289.3	295.4	[100]	ug/L	13:36:07
3	U 409.014†	-514.6	3085.3	[100]	ug/L	13:35:47
3	V 292.402†	10749.8	11955.9	[100]	ug/L	13:35:47
3	Zn 213.857†	10727.5	9301.0	[100]	ug/L	13:36:07
3	SiO2†	16349.3	14897.6	[1069.5]	ug/L	13:36:23

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	797232.0	39658.44	4.97%	100.19 %
Sc Radial	4006.1	7.41	0.18%	101 %
Y 371.029	643041.6	31439.13	4.89%	100.01 %
Y RADIAL	4136.5	23.52	0.57%	100.1 %
Ag 328.068†	19398.0	1240.22	6.39%	[100] ug/L
As 188.979†	242.1	7.51	3.10%	[100] ug/L
B 249.677†	4072.9	238.53	5.86%	[100] ug/L
Ba 233.527†	11967.4	770.96	6.44%	[100] ug/L
Be 313.107†	264373.8	16715.71	6.32%	[100] ug/L
Cd 226.502†	8181.2	495.16	6.05%	[100] ug/L
Co 228.616†	4819.9	307.20	6.37%	[100] ug/L
Cr 267.716†	7919.1	521.31	6.58%	[100] ug/L
Cu 324.752†	31270.9	2382.52	7.62%	[100] ug/L
K 766.490 Radial†	4363.3	69.35	1.59%	[1000] ug/L
Mn 257.610†	87079.1	5568.76	6.40%	[100] ug/L
Mo 202.031†	1301.3	82.53	6.34%	[100] ug/L
Ni 231.604†	3806.3	228.44	6.00%	[100] ug/L
P 214.914†	925.5	81.07	8.76%	[500] ug/L
Pb 220.353†	780.7	46.16	5.91%	[100] ug/L
S 181.975 Axial†	153.3	13.37	8.72%	[200] ug/L
Sb 206.836†	289.0	22.10	7.64%	[100] ug/L
Se 196.026†	175.7	12.20	6.95%	[100] ug/L
Si 251.611†	15623.1	971.32	6.22%	[500] ug/L
Sn 189.927†	548.0	39.02	7.12%	[100] ug/L
Sr 421.552†	11575.2	0.39	0.00%	[100] ug/L
Ti 334.940†	60806.1	3799.25	6.25%	[100] ug/L
Tl 190.801†	313.3	16.13	5.15%	[100] ug/L
U 409.014†	3095.2	80.53	2.60%	[100] ug/L
V 292.402†	12694.5	763.33	6.01%	[100] ug/L
Zn 213.857†	9975.1	680.68	6.82%	[100] ug/L
SiO2†	15741.6	768.13	4.88%	[1069.5] ug/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Logged In Analyst (Original) : Optima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 2/17/2010 13:38:33
 Data Type: Reprocessed on 2/17/2010 15:41:06
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc 361.383	805710.3	805710.3	101.25	%	13:41:45
1	Sc Radial	3962.2	3962.2	99.7	%	13:40:26
1	Y 371.029	644793.5	644793.5	100.28	%	13:41:45
1	Y RADIAL	4089.1	4089.1	98.99	%	13:40:26
1	Ag 328.068†	97027.6	95642.8	[500]	ug/L	13:41:45
1	Al 396.153Radial†	4571.4	4728.9	[5000]	ug/L	13:40:26
1	As 188.979†	1144.0	1157.5	[500]	ug/L	13:42:05
1	B 249.677†	20578.2	20265.9	[500]	ug/L	13:41:45
1	Ba 233.527†	60331.0	59579.0	[500]	ug/L	13:41:45
1	Be 313.107†	1320625.4	1308542.4	[500]	ug/L	13:41:45
1	Ca 317.933Radial†	2579.9	2564.5	[5000]	ug/L	13:40:46
1	Cd 226.502†	39667.7	39386.1	[500]	ug/L	13:42:05
1	Co 228.616†	23370.3	23160.0	[500]	ug/L	13:42:05
1	Cr 267.716†	42865.0	41638.1	[500]	ug/L	13:41:45
1	Cu 324.752†	185989.2	175371.6	[500]	ug/L	13:41:45
1	K 766.490 Radial†	25554.6	22434.2	[5000]	ug/L	13:40:26
1	Mg 279.077 IEC†	133.6	132.7	[5000]	ug/L	13:40:46
1	Mn 257.610†	440515.6	434519.9	[500]	ug/L	13:41:45
1	Mo 202.031†	6391.6	6291.5	[500]	ug/L	13:42:05
1	Ni 231.604†	18655.7	18333.6	[500]	ug/L	13:42:05
1	P 214.914†	4784.0	4481.5	[2500]	ug/L	13:42:05
1	Pb 220.353†	3838.9	3807.4	[500]	ug/L	13:42:05
1	S 181.975 Axial†	819.5	747.7	[1000]	ug/L	13:42:05
1	Sb 206.836†	1441.8	1380.0	[500]	ug/L	13:42:05
1	Se 196.026†	847.2	863.2	[500]	ug/L	13:42:05
1	Si 251.611†	82576.5	80890.0	[2500]	ug/L	13:41:45
1	Sn 189.927†	2694.2	2625.2	[500]	ug/L	13:42:05
1	Sr 421.552†	58425.0	58513.6	[500]	ug/L	13:40:26
1	Ti 334.940†	302781.2	300641.6	[500]	ug/L	13:41:45
1	Tl 190.801†	1521.1	1523.6	[500]	ug/L	13:42:05
1	U 409.014†	11460.6	14891.8	[500]	ug/L	13:41:45
1	V 292.402†	62069.1	63073.9	[500]	ug/L	13:41:45
1	Zn 213.857†	55397.3	53850.8	[500]	ug/L	13:41:45
1	SiO2†	79138.5	77569.2	[5347.5]	ug/L	13:43:05
2	Sc 361.383	809490.4	809490.4	101.73	%	13:42:12
2	Sc Radial	3974.0	3974.0	100.0	%	13:40:51
2	Y 371.029	647842.0	647842.0	100.75	%	13:42:12
2	Y RADIAL	4104.6	4104.6	99.36	%	13:40:51
2	Ag 328.068†	96210.1	94391.7	[500]	ug/L	13:42:12
2	Al 396.153Radial†	4592.4	4736.4	[5000]	ug/L	13:40:51
2	As 188.979†	1164.9	1172.8	[500]	ug/L	13:42:32
2	B 249.677†	20615.8	20207.9	[500]	ug/L	13:42:12
2	Ba 233.527†	59184.5	58173.7	[500]	ug/L	13:42:12
2	Be 313.107†	1320243.6	1302076.5	[500]	ug/L	13:42:12
2	Ca 317.933Radial†	2587.8	2564.7	[5000]	ug/L	13:41:11
2	Cd 226.502†	39780.4	39314.0	[500]	ug/L	13:42:32
2	Co 228.616†	23456.0	23136.4	[500]	ug/L	13:42:32
2	Cr 267.716†	40509.8	39125.1	[500]	ug/L	13:42:12
2	Cu 324.752†	165885.8	154751.6	[500]	ug/L	13:42:12
2	K 766.490 Radial†	25559.8	22363.5	[5000]	ug/L	13:40:51
2	Mg 279.077 IEC†	134.3	133.0	[5000]	ug/L	13:41:11
2	Mn 257.610†	428608.8	420783.5	[500]	ug/L	13:42:12
2	Mo 202.031†	6420.9	6290.8	[500]	ug/L	13:42:32
2	Ni 231.604†	18723.7	18314.3	[500]	ug/L	13:42:32
2	P 214.914†	4806.6	4481.7	[2500]	ug/L	13:42:32
2	Pb 220.353†	3867.5	3817.8	[500]	ug/L	13:42:32
2	S 181.975 Axial†	815.7	740.2	[1000]	ug/L	13:42:32
2	Sb 206.836†	1445.3	1376.8	[500]	ug/L	13:42:32

2	Se 196.026†	850.2	862.2	[500]	ug/L	13:42:32
2	Si 251.611†	78801.0	76797.8	[2500]	ug/L	13:42:12
2	Sn 189.927†	2689.5	2608.1	[500]	ug/L	13:42:32
2	Sr 421.552†	58620.9	58535.9	[500]	ug/L	13:40:51
2	Ti 334.940†	300705.0	297204.2	[500]	ug/L	13:42:12
2	Tl 190.801†	1513.9	1509.5	[500]	ug/L	13:42:32
2	U 409.014†	11236.4	14618.6	[500]	ug/L	13:42:12
2	V 292.402†	61924.4	62645.4	[500]	ug/L	13:42:12
2	Zn 213.857†	50556.2	48836.3	[500]	ug/L	13:42:12
2	SiO2†	78697.6	76770.7	[5347.5]	ug/L	13:43:10
3	Sc 361.383	814214.3	814214.3	102.32	%	13:42:39
3	Sc Radial	3952.9	3952.9	99.4	%	13:41:16
3	Y 371.029	652336.8	652336.8	101.45	%	13:42:39
3	Y RADIAL	4105.4	4105.4	99.38	%	13:41:16
3	Ag 328.068†	96584.2	94208.6	[500]	ug/L	13:42:39
3	Al 396.153Radial†	4558.7	4727.0	[5000]	ug/L	13:41:16
3	As 188.979†	1167.6	1168.8	[500]	ug/L	13:42:59
3	B 249.677†	20792.3	20262.9	[500]	ug/L	13:42:39
3	Ba 233.527†	59583.4	58225.9	[500]	ug/L	13:42:39
3	Be 313.107†	1328931.3	1303037.2	[500]	ug/L	13:42:39
3	Ca 317.933Radial†	2573.1	2563.8	[5000]	ug/L	13:41:36
3	Cd 226.502†	40012.7	39314.1	[500]	ug/L	13:42:59
3	Co 228.616†	23623.5	23166.3	[500]	ug/L	13:42:59
3	Cr 267.716†	40847.1	39223.7	[500]	ug/L	13:42:39
3	Cu 324.752†	166799.8	154698.8	[500]	ug/L	13:42:39
3	K 766.490 Radial†	25649.0	22589.7	[5000]	ug/L	13:41:16
3	Mg 279.077 IEC†	135.6	135.1	[5000]	ug/L	13:41:36
3	Mn 257.610†	431023.8	420699.3	[500]	ug/L	13:42:39
3	Mo 202.031†	6468.1	6300.3	[500]	ug/L	13:42:59
3	Ni 231.604†	18810.7	18292.6	[500]	ug/L	13:42:59
3	P 214.914†	4855.5	4502.1	[2500]	ug/L	13:42:59
3	Pb 220.353†	3881.1	3809.1	[500]	ug/L	13:42:59
3	S 181.975 Axial†	828.2	747.7	[1000]	ug/L	13:42:59
3	Sb 206.836†	1436.5	1359.9	[500]	ug/L	13:42:59
3	Se 196.026†	858.6	865.6	[500]	ug/L	13:42:59
3	Si 251.611†	79204.9	76743.1	[2500]	ug/L	13:42:39
3	Sn 189.927†	2716.6	2619.3	[500]	ug/L	13:42:59
3	Sr 421.552†	58392.7	58619.7	[500]	ug/L	13:41:16
3	Ti 334.940†	301924.9	296681.3	[500]	ug/L	13:42:39
3	Tl 190.801†	1558.0	1544.0	[500]	ug/L	13:42:59
3	U 409.014†	11411.5	14725.6	[500]	ug/L	13:42:39
3	V 292.402†	62361.3	62719.2	[500]	ug/L	13:42:39
3	Zn 213.857†	50929.6	48913.0	[500]	ug/L	13:42:39
3	SiO2†	79256.7	76868.4	[5347.5]	ug/L	13:43:15

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	809805.0	4260.74	0.53%	101.77	%
Sc Radial	3963.1	10.58	0.27%	99.7	%
Y 371.029	648324.1	3794.68	0.59%	100.83	%
Y RADIAL	4099.7	9.17	0.22%	99.24	%
Ag 328.068†	94747.7	780.57	0.82%	[500]	ug/L
Al 396.153Radial†	4730.8	4.96	0.10%	[5000]	ug/L
As 188.979†	1166.4	7.91	0.68%	[500]	ug/L
B 249.677†	20245.6	32.62	0.16%	[500]	ug/L
Ba 233.527†	58659.5	796.70	1.36%	[500]	ug/L
Be 313.107†	1304552.0	3489.00	0.27%	[500]	ug/L
Ca 317.933Radial†	2564.4	0.48	0.02%	[5000]	ug/L
Cd 226.502†	39338.1	41.63	0.11%	[500]	ug/L
Co 228.616†	23154.2	15.77	0.07%	[500]	ug/L
Cr 267.716†	39995.6	1423.25	3.56%	[500]	ug/L
Cu 324.752†	161607.4	11920.24	7.38%	[500]	ug/L
K 766.490 Radial†	22462.4	115.76	0.52%	[5000]	ug/L
Mg 279.077 IEC†	133.6	1.31	0.98%	[5000]	ug/L
Mn 257.610†	425334.2	7955.14	1.87%	[500]	ug/L
Mo 202.031†	6294.2	5.30	0.08%	[500]	ug/L
Ni 231.604†	18313.5	20.52	0.11%	[500]	ug/L
P 214.914†	4488.4	11.83	0.26%	[2500]	ug/L
Pb 220.353†	3811.4	5.58	0.15%	[500]	ug/L

S 181.975 Axial†	745.2	4.36	0.59%	[1000]	ug/L
Sb 206.836†	1372.3	10.77	0.78%	[500]	ug/L
Se 196.026†	863.7	1.75	0.20%	[500]	ug/L
Si 251.611†	78143.6	2378.61	3.04%	[2500]	ug/L
Sn 189.927†	2617.6	8.66	0.33%	[500]	ug/L
Sr 421.552†	58556.4	55.93	0.10%	[500]	ug/L
Ti 334.940†	298175.7	2151.45	0.72%	[500]	ug/L
Tl 190.801†	1525.7	17.34	1.14%	[500]	ug/L
U 409.014†	14745.4	137.68	0.93%	[500]	ug/L
V 292.402†	62812.8	229.09	0.36%	[500]	ug/L
Zn 213.857†	50533.4	2873.21	5.69%	[500]	ug/L
SiO2†	77069.4	435.53	0.57%	[5347.5]	ug/L

Sequence No.: 4
 Sample ID: SCAL
 Analyst:
 Logged In Analyst (Original) : Optima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 2/17/2010 13:45:26
 Data Type: Reprocessed on 2/17/2010 15:41:07
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc 361.383	788006.3	788006.3	99.027 %	13:48:42
1	Sc Radial	3852.5	3852.5	96.9 %	13:47:39
1	Y 371.029	632246.3	632246.3	98.328 %	13:48:42
1	Y RADIAL	4035.7	4035.7	97.69 %	13:47:19
1	Ag 328.068†	194560.4	196287.3	[1000] ug/L	13:48:42
1	Al 396.153Radial†	9243.9	9681.8	[10000] ug/L	13:47:19
1	As 188.979†	2324.9	2375.4	[1000] ug/L	13:49:02
1	B 249.677†	41797.8	42150.7	[1000] ug/L	13:48:42
1	Ba 233.527†	118345.6	119502.6	[1000] ug/L	13:48:42
1	Be 313.107†	2648106.6	2678376.8	[1000] ug/L	13:48:37
1	Ca 317.933Radial†	5146.9	5287.5	[10000] ug/L	13:47:19
1	Cd 226.502†	80596.9	81597.8	[1000] ug/L	13:48:42
1	Co 228.616†	47129.3	47671.0	[1000] ug/L	13:48:42
1	Cr 267.716†	80929.8	81028.2	[1000] ug/L	13:48:42
1	Cu 324.752†	326429.4	321319.4	[1000] ug/L	13:48:42
1	Fe 238.204 Radial†	917.6	936.0	[10000] ug/L	13:47:39
1	K 766.490 Radial†	47830.6	46154.1	[10000] ug/L	13:47:19
1	Mg 279.077 IEC†	258.6	265.5	[10000] ug/L	13:47:39
1	Mn 257.610†	854382.5	862229.9	[1000] ug/L	13:48:37
1	Mo 202.031†	12896.2	13001.9	[1000] ug/L	13:49:02
1	Na 589.592 Radial†	27087.0	28058.0	[10000] ug/L	13:47:19
1	Ni 231.604†	37291.0	37566.0	[1000] ug/L	13:48:42
1	P 214.914†	9343.2	9191.8	[5000] ug/L	13:49:02
1	Pb 220.353†	7682.3	7773.7	[1000] ug/L	13:49:02
1	S 181.975 Axial†	1605.1	1559.2	[2000] ug/L	13:49:02
1	Sb 206.836†	2884.1	2868.4	[1000] ug/L	13:49:02
1	Se 196.026†	1707.1	1750.4	[1000] ug/L	13:49:02
1	Si 251.611†	158470.0	159361.8	[5000] ug/L	13:48:42
1	Sn 189.927†	5441.9	5459.7	[1000] ug/L	13:49:02
1	Sr 421.552†	116773.1	120400.4	[1000] ug/L	13:47:19
1	Ti 334.940†	597512.4	604988.5	[1000] ug/L	13:48:42
1	Tl 190.801†	3065.3	3116.8	[1000] ug/L	13:49:02
1	U 409.014†	27709.1	31554.4	[1000] ug/L	13:48:42
1	V 292.402†	126545.6	129561.5	[1000] ug/L	13:48:42
1	Zn 213.857†	99654.9	99772.7	[1000] ug/L	13:48:42
1	SiO2†	159833.6	160813.6	[10695] ug/L	13:50:11
2	Sc 361.383	790760.5	790760.5	99.373 %	13:49:14
2	Sc Radial	3866.5	3866.5	97.3 %	13:48:04
2	Y 371.029	635419.5	635419.5	98.821 %	13:49:14
2	Y RADIAL	4122.9	4122.9	99.80 %	13:47:44
2	Ag 328.068†	195306.7	196354.1	[1000] ug/L	13:49:14
2	Al 396.153Radial†	9390.4	9797.7	[10000] ug/L	13:47:44
2	As 188.979†	2326.6	2369.0	[1000] ug/L	13:49:34
2	B 249.677†	42153.2	42361.3	[1000] ug/L	13:49:14
2	Ba 233.527†	118884.7	119628.8	[1000] ug/L	13:49:14
2	Be 313.107†	2663347.8	2684400.3	[1000] ug/L	13:49:08
2	Ca 317.933Radial†	5217.3	5340.5	[10000] ug/L	13:47:44
2	Cd 226.502†	80853.1	81572.2	[1000] ug/L	13:49:14
2	Co 228.616†	47380.7	47758.2	[1000] ug/L	13:49:14
2	Cr 267.716†	81351.6	81168.0	[1000] ug/L	13:49:14
2	Cu 324.752†	327589.4	321338.6	[1000] ug/L	13:49:14
2	Fe 238.204 Radial†	919.9	934.8	[10000] ug/L	13:48:04
2	K 766.490 Radial†	48475.1	46637.1	[10000] ug/L	13:47:44
2	Mg 279.077 IEC†	265.4	271.5	[10000] ug/L	13:48:04
2	Mn 257.610†	856522.7	861378.6	[1000] ug/L	13:49:08
2	Mo 202.031†	12936.8	12997.4	[1000] ug/L	13:49:34
2	Na 589.592 Radial†	27533.4	28415.2	[10000] ug/L	13:47:44
2	Ni 231.604†	37456.4	37601.3	[1000] ug/L	13:49:14

2	P 214.914†	9356.1	9171.8	[5000]	ug/L	13:49:34
2	Pb 220.353†	7708.4	7773.1	[1000]	ug/L	13:49:34
2	S 181.975 Axial†	1605.7	1554.2	[2000]	ug/L	13:49:34
2	Sb 206.836†	2905.9	2880.2	[1000]	ug/L	13:49:34
2	Se 196.026†	1713.7	1751.0	[1000]	ug/L	13:49:34
2	Si 251.611†	159112.0	159450.5	[5000]	ug/L	13:49:14
2	Sn 189.927†	5447.7	5446.4	[1000]	ug/L	13:49:34
2	Sr 421.552†	118439.8	121675.5	[1000]	ug/L	13:47:44
2	Ti 334.940†	599263.0	604648.6	[1000]	ug/L	13:49:14
2	Tl 190.801†	3075.8	3116.6	[1000]	ug/L	13:49:34
2	U 409.014†	27761.2	31509.4	[1000]	ug/L	13:49:14
2	V 292.402†	127155.7	129730.3	[1000]	ug/L	13:49:14
2	Zn 213.857†	100155.1	99925.5	[1000]	ug/L	13:49:14
2	SiO2†	160631.4	161054.3	[10695]	ug/L	13:50:16
3	Sc 361.383	790312.3	790312.3	99.316	%	13:49:45
3	Sc Radial	3850.1	3850.1	96.8	%	13:48:29
3	Y 371.029	635811.7	635811.7	98.882	%	13:49:45
3	Y RADIAL	4091.3	4091.3	99.04	%	13:48:09
3	Ag 328.068†	195144.4	196302.1	[1000]	ug/L	13:49:45
3	Al 396.153Radial†	9334.4	9781.2	[10000]	ug/L	13:48:09
3	As 188.979†	2316.0	2359.6	[1000]	ug/L	13:50:05
3	B 249.677†	42103.6	42335.4	[1000]	ug/L	13:49:45
3	Ba 233.527†	118775.2	119586.4	[1000]	ug/L	13:49:45
3	Be 313.107†	2673748.0	2696392.1	[1000]	ug/L	13:49:40
3	Ca 317.933Radial†	5200.3	5345.9	[10000]	ug/L	13:48:09
3	Cd 226.502†	81015.5	81781.8	[1000]	ug/L	13:49:45
3	Co 228.616†	47321.5	47725.7	[1000]	ug/L	13:49:45
3	Cr 267.716†	81325.9	81188.5	[1000]	ug/L	13:49:45
3	Cu 324.752†	326509.5	320438.2	[1000]	ug/L	13:49:45
3	Fe 238.204 Radial†	922.2	941.3	[10000]	ug/L	13:48:29
3	K 766.490 Radial†	48299.1	46668.7	[10000]	ug/L	13:48:09
3	Mg 279.077 IEC†	263.4	270.6	[10000]	ug/L	13:48:29
3	Mn 257.610†	859656.7	865023.1	[1000]	ug/L	13:49:40
3	Mo 202.031†	12868.0	12935.5	[1000]	ug/L	13:50:05
3	Na 589.592 Radial†	27426.3	28425.9	[10000]	ug/L	13:48:09
3	Ni 231.604†	37474.6	37640.9	[1000]	ug/L	13:49:45
3	P 214.914†	9318.9	9139.7	[5000]	ug/L	13:50:05
3	Pb 220.353†	7672.4	7741.1	[1000]	ug/L	13:50:05
3	S 181.975 Axial†	1598.4	1547.7	[2000]	ug/L	13:50:05
3	Sb 206.836†	2875.0	2850.8	[1000]	ug/L	13:50:05
3	Se 196.026†	1693.5	1731.7	[1000]	ug/L	13:50:05
3	Si 251.611†	158900.0	159327.9	[5000]	ug/L	13:49:45
3	Sn 189.927†	5441.6	5443.4	[1000]	ug/L	13:50:05
3	Sr 421.552†	117586.6	121315.6	[1000]	ug/L	13:48:09
3	Ti 334.940†	598101.6	603821.2	[1000]	ug/L	13:49:45
3	Tl 190.801†	3070.9	3113.3	[1000]	ug/L	13:50:05
3	U 409.014†	27775.7	31539.8	[1000]	ug/L	13:49:45
3	V 292.402†	127242.1	129889.9	[1000]	ug/L	13:49:45
3	Zn 213.857†	100170.2	99997.9	[1000]	ug/L	13:49:45
3	SiO2†	159908.4	160417.9	[10695]	ug/L	13:50:21

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	789693.0	1477.83	0.19%	99.239 %
Sc Radial	3856.4	8.90	0.23%	97.0 %
Y 371.029	634492.5	1955.16	0.31%	98.677 %
Y RADIAL	4083.3	44.16	1.08%	98.85 %
Ag 328.068†	196314.5	35.07	0.02%	[1000] ug/L
Al 396.153Radial†	9753.6	62.67	0.64%	[10000] ug/L
As 188.979†	2368.0	7.95	0.34%	[1000] ug/L
B 249.677†	42282.4	114.86	0.27%	[1000] ug/L
Ba 233.527†	119572.6	64.26	0.05%	[1000] ug/L
Be 313.107†	2686389.7	9170.97	0.34%	[1000] ug/L
Ca 317.933Radial†	5324.6	32.30	0.61%	[10000] ug/L
Cd 226.502†	81650.6	114.34	0.14%	[1000] ug/L
Co 228.616†	47718.3	44.08	0.09%	[1000] ug/L
Cr 267.716†	81128.2	87.26	0.11%	[1000] ug/L
Cu 324.752†	321032.1	514.43	0.16%	[1000] ug/L
Fe 238.204 Radial†	937.3	3.43	0.37%	[10000] ug/L

K 766.490 Radial†	46486.6	288.42	0.62%	[10000]	ug/L
Mg 279.077 IEC†	269.2	3.22	1.20%	[10000]	ug/L
Mn 257.610†	862877.2	1906.49	0.22%	[1000]	ug/L
Mo 202.031†	12978.2	37.09	0.29%	[1000]	ug/L
Na 589.592 Radial†	28299.7	209.41	0.74%	[10000]	ug/L
Ni 231.604†	37602.8	37.48	0.10%	[1000]	ug/L
P 214.914†	9167.8	26.27	0.29%	[5000]	ug/L
Pb 220.353†	7762.7	18.63	0.24%	[1000]	ug/L
S 181.975 Axial†	1553.7	5.73	0.37%	[2000]	ug/L
Sb 206.836†	2866.5	14.80	0.52%	[1000]	ug/L
Se 196.026†	1744.3	10.98	0.63%	[1000]	ug/L
Si 251.611†	159380.1	63.31	0.04%	[5000]	ug/L
Sn 189.927†	5449.8	8.68	0.16%	[1000]	ug/L
Sr 421.552†	121130.5	657.37	0.54%	[1000]	ug/L
Ti 334.940†	604486.1	600.38	0.10%	[1000]	ug/L
Tl 190.801†	3115.6	1.94	0.06%	[1000]	ug/L
U 409.014†	31534.5	22.96	0.07%	[1000]	ug/L
V 292.402†	129727.2	164.24	0.13%	[1000]	ug/L
Zn 213.857†	99898.7	114.98	0.12%	[1000]	ug/L
SiO2†	160761.9	321.32	0.20%	[10695]	ug/L

Sequence No.: 5

Sample ID: S10

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 2/17/2010 13:52:33

Data Type: Reprocessed on 2/17/2010 15:41:08

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc 361.383	789438.6	789438.6	99.207 %	13:55:43
1	Sc Radial	3918.0	3918.0	98.5 %	13:54:46
1	Y 371.029	629184.5	629184.5	97.852 %	13:55:43
1	Y RADIAL	4045.5	4045.5	97.93 %	13:54:46
1	Al 396.153Radial†	46772.2	47604.5	[50000] ug/L	13:54:26
1	Ca 317.933Radial†	25019.6	25364.7	[50000] ug/L	13:54:26
1	Fe 238.204 Radial†	1788.1	1803.4	[20000] ug/L	13:54:46
1	Mg 279.077 IEC†	1250.7	1267.8	[50000] ug/L	13:54:46
1	Na 589.592 Radial†	55431.2	56353.2	[20000] ug/L	13:54:26
2	Sc 361.383	791088.0	791088.0	99.414 %	13:55:49
2	Sc Radial	3897.5	3897.5	98.0 %	13:55:11
2	Y 371.029	630980.2	630980.2	98.131 %	13:55:49
2	Y RADIAL	4015.1	4015.1	97.19 %	13:55:11
2	Al 396.153Radial†	47710.5	48811.1	[50000] ug/L	13:54:51
2	Ca 317.933Radial†	25468.9	25956.5	[50000] ug/L	13:54:51
2	Fe 238.204 Radial†	1799.6	1824.8	[20000] ug/L	13:55:11
2	Mg 279.077 IEC†	1254.6	1278.4	[50000] ug/L	13:55:11
2	Na 589.592 Radial†	56531.1	57770.7	[20000] ug/L	13:54:51
3	Sc 361.383	802119.9	802119.9	100.80 %	13:55:55
3	Sc Radial	3897.1	3897.1	98.0 %	13:55:36
3	Y 371.029	638610.4	638610.4	99.318 %	13:55:55
3	Y RADIAL	4019.6	4019.6	97.30 %	13:55:36
3	Al 396.153Radial†	47438.9	48539.5	[50000] ug/L	13:55:16
3	Ca 317.933Radial†	25335.0	25822.8	[50000] ug/L	13:55:16
3	Fe 238.204 Radial†	1777.7	1802.6	[20000] ug/L	13:55:36
3	Mg 279.077 IEC†	1257.4	1281.5	[50000] ug/L	13:55:36
3	Na 589.592 Radial†	56021.5	57257.3	[20000] ug/L	13:55:16

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	794215.5	6894.92	0.87%	99.807 %
Sc Radial	3904.2	11.95	0.31%	98.2 %
Y 371.029	632925.0	5004.89	0.79%	98.433 %
Y RADIAL	4026.7	16.44	0.41%	97.48 %
Al 396.153Radial†	48318.4	632.97	1.31%	[50000] ug/L
Ca 317.933Radial†	25714.6	310.34	1.21%	[50000] ug/L
Fe 238.204 Radial†	1810.3	12.57	0.69%	[20000] ug/L
Mg 279.077 IEC†	1275.9	7.20	0.56%	[50000] ug/L
Na 589.592 Radial†	57127.1	717.72	1.26%	[20000] ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	194.9	0.00000	0.999903	
Al 396.153Radial	3	Lin Thru 0	0.0	0.9665	0.00000	0.999996	
As 188.979	3	Lin Thru 0	0.0	2.361	0.00000	0.999980	
B 249.677	3	Lin Thru 0	0.0	41.91	0.00000	0.999852	
Ba 233.527	3	Lin Thru 0	0.0	119.1	0.00000	0.999972	
Be 313.107	3	Lin Thru 0	0.0	2671	0.00000	0.999933	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.5150	0.00000	0.999977	
Cd 226.502	3	Lin Thru 0	0.0	81.06	0.00000	0.999893	
Co 228.616	3	Lin Thru 0	0.0	47.44	0.00000	0.999929	
Cr 267.716	3	Lin Thru 0	0.0	80.89	0.00000	0.999983	
Cu 324.752	3	Lin Thru 0	0.0	321.4	0.00000	0.999993	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0912	0.00000	0.999900	

K 766.490 Radial	3	Lin Thru 0	0.0	4.615	0.00000	0.999897
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0256	0.00000	0.999936
Mn 257.610	3	Lin Thru 0	0.0	860.5	0.00000	0.999983
Mo 202.031	3	Lin Thru 0	0.0	12.90	0.00000	0.999927
Na 589.592 Radia	2	Lin Thru 0	0.0	2.851	0.00000	0.999993
Ni 231.604	3	Lin Thru 0	0.0	37.41	0.00000	0.999945
P 214.914	3	Lin Thru 0	0.0	1.826	0.00000	0.999965
Pb 220.353	3	Lin Thru 0	0.0	7.735	0.00000	0.999974
S 181.975 Axial	3	Lin Thru 0	0.0	0.7705	0.00000	0.999866
Sb 206.836	3	Lin Thru 0	0.0	2.842	0.00000	0.999853
Se 196.026	3	Lin Thru 0	0.0	1.741	0.00000	0.999992
Si 251.611	3	Lin Thru 0	0.0	31.75	0.00000	0.999969
Sn 189.927	3	Lin Thru 0	0.0	5.407	0.00000	0.999874
Sr 421.552	3	Lin Thru 0	0.0	120.3	0.00000	0.999906
Ti 334.940	3	Lin Thru 0	0.0	602.9	0.00000	0.999985
Tl 190.801	3	Lin Thru 0	0.0	3.103	0.00000	0.999966
U 409.014	3	Lin Thru 0	0.0	31.12	0.00000	0.999658
V 292.402	3	Lin Thru 0	0.0	128.9	0.00000	0.999919
Zn 213.857	3	Lin Thru 0	0.0	100.1	0.00000	0.999989
SiO2	3	Lin Thru 0	0.0	14.91	0.00000	0.999862

Sequence No.: 6
 Sample ID: ICV
 Analyst:
 Logged In Analyst (Original) : Optima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 9
 Date Collected: 2/17/2010 13:58:06
 Data Type: Reprocessed on 2/17/2010 15:41:09
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	812358.1	812358.1	102.09 %		14:01:16
1	Sc Radial	3956.9	3956.9	99.5 %		13:59:59
1	Y 371.029	653053.6	653053.6	101.56 %		14:01:16
1	Y RADIAL	4096.6	4096.6	99.17 %		13:59:59
1	Ag 328.068†	49740.8	48538.4	252.05 ug/L	252.05 ppb	14:01:16
1	Al 396.153Radial†	4543.0	4706.6	4844.5 ug/L	4844.5 ppb	13:59:59
1	As 188.979†	1078.5	1084.1	463.22 ug/L	463.22 ppb	14:01:36
1	B 249.677†	21446.5	20950.1	497.64 ug/L	497.64 ppb	14:01:16
1	Ba 233.527†	59663.5	58437.5	491.79 ug/L	491.79 ppb	14:01:16
1	Be 313.107†	683845.0	674104.9	253.51 ug/L	253.51 ppb	14:01:16
1	Ca 317.933Radial†	2523.6	2511.4	4876.8 ug/L	4876.8 ppb	14:00:19
1	Cd 226.502†	38854.3	38268.7	471.98 ug/L	471.98 ppb	14:01:36
1	Co 228.616†	23305.3	22907.4	482.99 ug/L	482.99 ppb	14:01:36
1	Cr 267.716†	39179.0	37681.0	466.45 ug/L	466.45 ppb	14:01:16
1	Cu 324.752†	166545.0	154821.6	481.71 ug/L	481.71 ppb	14:01:16
1	Fe 238.204 Radial†	462.0	453.1	4985.3 ug/L	4985.3 ppb	14:00:19
1	K 766.490 Radial†	14073.8	10933.0	2365.4 ug/L	2365.4 ppb	13:59:59
1	Mg 279.077 IEC†	137.1	136.4	5333.3 ug/L	5333.3 ppb	14:00:19
1	Mn 257.610†	437109.6	427623.1	497.21 ug/L	497.21 ppb	14:01:16
1	Mo 202.031†	6852.3	6691.1	519.08 ug/L	519.08 ppb	14:01:36
1	Na 589.592 Radial†	6629.8	6765.2	2372.8 ug/L	2372.8 ppb	13:59:59
1	Ni 231.604†	18517.1	18047.0	482.08 ug/L	482.08 ppb	14:01:36
1	P 214.914†	4752.8	4412.3	2322.6 ug/L	2322.6 ppb	14:01:36
1	Pb 220.353†	3777.5	3716.3	482.10 ug/L	482.10 ppb	14:01:36
1	S 181.975 Axial†	1953.7	1852.1	2402.8 ug/L	2402.8 ppb	14:01:36
1	Sb 206.836†	1444.4	1370.9	500.92 ug/L	500.92 ppb	14:01:36
1	Se 196.026†	4368.1	4305.3	2489.1 ug/L	2489.1 ppb	14:01:36
1	Si 251.611†	154678.0	150850.2	4745.1 ug/L	4745.1 ppb	14:01:16
1	Sn 189.927†	2887.0	2792.3	516.50 ug/L	516.50 ppb	14:01:36
1	Sr 421.552†	60736.9	60915.5	506.37 ug/L	506.37 ppb	13:59:59
1	Ti 334.940†	298881.3	294374.2	488.10 ug/L	488.10 ppb	14:01:16
1	Tl 190.801†	1565.2	1554.6	504.38 ug/L	504.38 ppb	14:01:36
1	U 409.014†	11773.2	15105.4	483.72 ug/L	483.72 ppb	14:01:16
1	V 292.402†	63072.0	63554.6	500.03 ug/L	500.03 ppb	14:01:16
1	Zn 213.857†	51533.8	49618.5	491.08 ug/L	491.08 ppb	14:01:16
1	SiO2†	155051.8	151291.1	10135 ug/L	10135 ppb	14:02:34
2	Sc 361.383	812277.8	812277.8	102.08 %		14:01:42
2	Sc Radial	4057.7	4057.7	102 %		14:00:24
2	Y 371.029	652311.5	652311.5	101.45 %		14:01:42
2	Y RADIAL	4168.0	4168.0	100.9 %		14:00:24
2	Ag 328.068†	49797.5	48598.7	252.29 ug/L	252.29 ppb	14:01:42
2	Al 396.153Radial†	4611.6	4660.5	4796.7 ug/L	4796.7 ppb	14:00:24
2	As 188.979†	1091.6	1097.0	468.65 ug/L	468.65 ppb	14:02:02
2	B 249.677†	21524.2	21028.3	499.53 ug/L	499.53 ppb	14:01:42
2	Ba 233.527†	59755.0	58532.9	492.58 ug/L	492.58 ppb	14:01:42
2	Be 313.107†	684679.0	674988.2	253.85 ug/L	253.85 ppb	14:01:42
2	Ca 317.933Radial†	2511.6	2436.7	4731.6 ug/L	4731.6 ppb	14:00:44
2	Cd 226.502†	39272.5	38682.1	477.11 ug/L	477.11 ppb	14:02:02
2	Co 228.616†	23561.4	23160.5	488.33 ug/L	488.33 ppb	14:02:02
2	Cr 267.716†	39283.3	37786.9	467.75 ug/L	467.75 ppb	14:01:42
2	Cu 324.752†	166991.7	155275.4	483.11 ug/L	483.11 ppb	14:01:42
2	Fe 238.204 Radial†	454.4	434.2	4777.3 ug/L	4777.3 ppb	14:00:44
2	K 766.490 Radial†	14238.2	10742.9	2324.3 ug/L	2324.3 ppb	14:00:24
2	Mg 279.077 IEC†	134.7	130.6	5104.8 ug/L	5104.8 ppb	14:00:44
2	Mn 257.610†	438109.8	428645.4	498.39 ug/L	498.39 ppb	14:01:42
2	Mo 202.031†	6878.1	6717.1	521.08 ug/L	521.08 ppb	14:02:02
2	Na 589.592 Radial†	6707.8	6676.2	2341.6 ug/L	2341.6 ppb	14:00:24
2	Ni 231.604†	18700.5	18228.5	486.93 ug/L	486.93 ppb	14:02:02

2	P 214.914†	4816.5	4475.2	2357.0 ug/L	2357.0 ppb	14:02:02
2	Pb 220.353†	3813.8	3752.2	486.76 ug/L	486.76 ppb	14:02:02
2	S 181.975 Axial†	1981.3	1879.3	2438.2 ug/L	2438.2 ppb	14:02:02
2	Sb 206.836†	1444.4	1371.1	501.09 ug/L	501.09 ppb	14:02:02
2	Se 196.026†	4399.3	4336.2	2506.3 ug/L	2506.3 ppb	14:02:02
2	Si 251.611†	155132.8	151310.8	4759.5 ug/L	4759.5 ppb	14:01:42
2	Sn 189.927†	2909.6	2814.7	520.65 ug/L	520.65 ppb	14:02:02
2	Sr 421.552†	61813.6	60455.1	502.54 ug/L	502.54 ppb	14:00:24
2	Ti 334.940†	299512.0	295021.0	489.17 ug/L	489.17 ppb	14:01:42
2	Tl 190.801†	1607.4	1596.0	517.73 ug/L	517.73 ppb	14:02:02
2	U 409.014†	11744.4	15078.3	482.86 ug/L	482.86 ppb	14:01:42
2	V 292.402†	62961.7	63452.6	499.29 ug/L	499.29 ppb	14:01:42
2	Zn 213.857†	51596.1	49684.5	491.73 ug/L	491.73 ppb	14:01:42
2	SiO2†	155836.0	152074.4	10188 ug/L	10188 ppb	14:02:39
3	Sc 361.383	806472.7	806472.7	101.35 %		14:02:08
3	Sc Radial	3997.1	3997.1	101 %		14:00:49
3	Y 371.029	647028.2	647028.2	100.63 %		14:02:08
3	Y RADIAL	4115.2	4115.2	99.62 %		14:00:49
3	Ag 328.068†	49358.0	48516.2	251.89 ug/L	251.89 ppb	14:02:08
3	Al 396.153Radial†	4597.3	4714.7	4852.7 ug/L	4852.7 ppb	14:00:49
3	As 188.979†	1092.7	1105.8	472.39 ug/L	472.39 ppb	14:02:28
3	B 249.677†	21169.1	20829.7	494.77 ug/L	494.77 ppb	14:02:08
3	Ba 233.527†	59211.4	58417.9	491.62 ug/L	491.62 ppb	14:02:08
3	Be 313.107†	676124.2	671375.3	252.49 ug/L	252.49 ppb	14:02:08
3	Ca 317.933Radial†	2505.8	2468.1	4792.8 ug/L	4792.8 ppb	14:01:09
3	Cd 226.502†	39060.4	38749.9	477.93 ug/L	477.93 ppb	14:02:28
3	Co 228.616†	23408.3	23175.6	488.65 ug/L	488.65 ppb	14:02:28
3	Cr 267.716†	38882.0	37668.0	466.28 ug/L	466.28 ppb	14:02:08
3	Cu 324.752†	164778.3	154269.0	479.98 ug/L	479.98 ppb	14:02:08
3	Fe 238.204 Radial†	455.7	442.2	4865.9 ug/L	4865.9 ppb	14:01:09
3	K 766.490 Radial†	14021.5	10738.7	2323.4 ug/L	2323.4 ppb	14:00:49
3	Mg 279.077 IEC†	133.3	131.3	5131.2 ug/L	5131.2 ppb	14:01:09
3	Mn 257.610†	433761.9	427444.7	497.00 ug/L	497.00 ppb	14:02:08
3	Mo 202.031†	6851.3	6739.1	522.80 ug/L	522.80 ppb	14:02:28
3	Na 589.592 Radial†	6647.8	6716.1	2355.6 ug/L	2355.6 ppb	14:00:49
3	Ni 231.604†	18578.3	18239.8	487.23 ug/L	487.23 ppb	14:02:28
3	P 214.914†	4779.3	4472.5	2356.0 ug/L	2356.0 ppb	14:02:28
3	Pb 220.353†	3772.5	3738.3	484.97 ug/L	484.97 ppb	14:02:28
3	S 181.975 Axial†	1967.1	1879.2	2438.1 ug/L	2438.1 ppb	14:02:28
3	Sb 206.836†	1460.2	1396.8	510.19 ug/L	510.19 ppb	14:02:28
3	Se 196.026†	4395.9	4363.9	2522.5 ug/L	2522.5 ppb	14:02:28
3	Si 251.611†	153454.3	150748.6	4741.8 ug/L	4741.8 ppb	14:02:08
3	Sn 189.927†	2897.5	2823.3	522.25 ug/L	522.25 ppb	14:02:28
3	Sr 421.552†	60659.2	60224.1	500.62 ug/L	500.62 ppb	14:00:49
3	Ti 334.940†	296300.9	293964.7	487.43 ug/L	487.43 ppb	14:02:08
3	Tl 190.801†	1604.9	1604.9	520.57 ug/L	520.57 ppb	14:02:28
3	U 409.014†	11667.5	15085.3	483.08 ug/L	483.08 ppb	14:02:08
3	V 292.402†	62441.6	63383.5	498.77 ug/L	498.77 ppb	14:02:08
3	Zn 213.857†	51078.0	49537.2	490.25 ug/L	490.25 ppb	14:02:08
3	SiO2†	156786.6	154111.2	10325 ug/L	10325 ppb	14:02:44

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	810369.5	101.84 %	0.424			0.42%
Sc Radial	4003.9	101 %	1.3			1.27%
Y 371.029	650797.8	101.21 %	0.511			0.50%
Y RADIAL	4126.6	99.89 %	0.896			0.90%
Ag 328.068†	48551.1	252.08 ug/L	0.201	252.08 ppb	0.201	0.08%
QC value within limits for Ag 328.068 Recovery = 100.83%						
Al 396.153Radial†	4693.9	4831.3 ug/L	30.23	4831.3 ppb	30.23	0.63%
QC value within limits for Al 396.153Radial Recovery = 96.63%						
As 188.979†	1095.6	468.09 ug/L	4.611	468.09 ppb	4.611	0.98%
QC value within limits for As 188.979 Recovery = 93.62%						
B 249.677†	20936.0	497.31 ug/L	2.394	497.31 ppb	2.394	0.48%
QC value within limits for B 249.677 Recovery = 99.46%						
Ba 233.527†	58462.8	492.00 ug/L	0.514	492.00 ppb	0.514	0.10%
QC value within limits for Ba 233.527 Recovery = 98.40%						
Be 313.107†	673489.4	253.28 ug/L	0.707	253.28 ppb	0.707	0.28%
QC value within limits for Be 313.107 Recovery = 101.31%						

Ca 317.933Radial†	2472.1	4800.4 ug/L	72.86	4800.4 ppb	72.86	1.52%
QC value within limits for Ca 317.933Radial Recovery = 96.01%						
Cd 226.502†	38566.9	475.67 ug/L	3.224	475.67 ppb	3.224	0.68%
QC value within limits for Cd 226.502 Recovery = 95.13%						
Co 228.616†	23081.2	486.66 ug/L	3.181	486.66 ppb	3.181	0.65%
QC value within limits for Co 228.616 Recovery = 97.33%						
Cr 267.716†	37712.0	466.83 ug/L	0.805	466.83 ppb	0.805	0.17%
QC value within limits for Cr 267.716 Recovery = 93.37%						
Cu 324.752†	154788.7	481.60 ug/L	1.566	481.60 ppb	1.566	0.33%
QC value within limits for Cu 324.752 Recovery = 96.32%						
Fe 238.204 Radial†	443.2	4876.2 ug/L	104.37	4876.2 ppb	104.37	2.14%
QC value within limits for Fe 238.204 Radial Recovery = 97.52%						
K 766.490 Radial†	10804.9	2337.7 ug/L	24.02	2337.7 ppb	24.02	1.03%
QC value within limits for K 766.490 Radial Recovery = 93.51%						
Mg 279.077 IEC†	132.8	5189.8 ug/L	125.00	5189.8 ppb	125.00	2.41%
QC value within limits for Mg 279.077 IEC Recovery = 103.80%						
Mn 257.610†	427904.4	497.53 ug/L	0.748	497.53 ppb	0.748	0.15%
QC value within limits for Mn 257.610 Recovery = 99.51%						
Mo 202.031†	6715.8	520.99 ug/L	1.859	520.99 ppb	1.859	0.36%
QC value within limits for Mo 202.031 Recovery = 104.20%						
Na 589.592 Radial†	6719.1	2356.7 ug/L	15.64	2356.7 ppb	15.64	0.66%
QC value within limits for Na 589.592 Radial Recovery = 94.27%						
Ni 231.604†	18171.8	485.42 ug/L	2.890	485.42 ppb	2.890	0.60%
QC value within limits for Ni 231.604 Recovery = 97.08%						
P 214.914†	4453.3	2345.2 ug/L	19.57	2345.2 ppb	19.57	0.83%
QC value within limits for P 214.914 Recovery = 93.81%						
Pb 220.353†	3735.6	484.61 ug/L	2.349	484.61 ppb	2.349	0.48%
QC value within limits for Pb 220.353 Recovery = 96.92%						
S 181.975 Axial†	1870.2	2426.4 ug/L	20.38	2426.4 ppb	20.38	0.84%
QC value within limits for S 181.975 Axial Recovery = 97.06%						
Sb 206.836†	1379.6	504.07 ug/L	5.305	504.07 ppb	5.305	1.05%
QC value within limits for Sb 206.836 Recovery = 100.81%						
Se 196.026†	4335.1	2506.0 ug/L	16.68	2506.0 ppb	16.68	0.67%
QC value within limits for Se 196.026 Recovery = 100.24%						
Si 251.611†	150969.9	4748.8 ug/L	9.44	4748.8 ppb	9.44	0.20%
QC value within limits for Si 251.611 Recovery = 94.98%						
Sn 189.927†	2810.1	519.80 ug/L	2.966	519.80 ppb	2.966	0.57%
QC value within limits for Sn 189.927 Recovery = 103.96%						
Sr 421.552†	60531.6	503.17 ug/L	2.926	503.17 ppb	2.926	0.58%
QC value within limits for Sr 421.552 Recovery = 100.63%						
Ti 334.940†	294453.3	488.23 ug/L	0.880	488.23 ppb	0.880	0.18%
QC value within limits for Ti 334.940 Recovery = 97.65%						
Tl 190.801†	1585.2	514.22 ug/L	8.643	514.22 ppb	8.643	1.68%
QC value within limits for Tl 190.801 Recovery = 102.84%						
U 409.014†	15089.7	483.22 ug/L	0.442	483.22 ppb	0.442	0.09%
QC value within limits for U 409.014 Recovery = 96.64%						
V 292.402†	63463.6	499.37 ug/L	0.634	499.37 ppb	0.634	0.13%
QC value within limits for V 292.402 Recovery = 99.87%						
Zn 213.857†	49613.4	491.02 ug/L	0.743	491.02 ppb	0.743	0.15%
QC value within limits for Zn 213.857 Recovery = 98.20%						
SiO2†	152492.3	10216 ug/L	97.6	10216 ppb	97.6	0.96%
QC value within limits for SiO2 Recovery = 95.52%						
All analyte(s) passed QC.						

Sequence No.: 7

Sample ID: ICB

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 2/17/2010 14:04:56

Data Type: Reprocessed on 2/17/2010 15:41:10

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	804267.6	804267.6	101.07 %		14:08:05
1	Sc Radial	3968.9	3968.9	99.8 %		14:06:49
1	Y 371.029	652767.7	652767.7	101.52 %		14:08:05
1	Y RADIAL	4127.7	4127.7	99.92 %		14:06:49
1	Ag 328.068†	288.7	100.1	0.5150 ug/L	0.5150 ppb	14:08:05
1	Al 396.153Radial†	-132.5	9.2	9.4745 ug/L	9.4745 ppb	14:06:49
1	As 188.979†	-22.2	5.7	2.3963 ug/L	2.3963 ppb	14:08:25
1	B 249.677†	167.2	107.4	2.5604 ug/L	2.5604 ppb	14:08:05
1	Ba 233.527†	11.2	4.7	0.0406 ug/L	0.0406 ppb	14:08:25
1	Be 313.107†	-4116.8	165.2	0.0622 ug/L	0.0622 ppb	14:08:05
1	Ca 317.933Radial†	19.4	-4.8	-9.2679 ug/L	-9.2679 ppb	14:07:09
1	Cd 226.502†	-212.1	-1.3	-0.0161 ug/L	-0.0161 ppb	14:08:25
1	Co 228.616†	-67.8	11.4	0.2423 ug/L	0.2423 ppb	14:08:25
1	Cr 267.716†	424.1	-277.6	-3.4327 ug/L	-3.4327 ppb	14:08:25
1	Cu 324.752†	8298.4	-108.4	-0.3393 ug/L	-0.3393 ppb	14:08:05
1	Fe 238.204 Radial†	12.4	1.3	14.697 ug/L	14.697 ppb	14:07:09
1	K 766.490 Radial†	3111.7	-90.9	-19.701 ug/L	-19.701 ppb	14:06:49
1	Mg 279.077 IEC†	1.1	-0.2	-8.5825 ug/L	-8.5825 ppb	14:07:09
1	Mn 257.610†	553.6	-3.7	-0.0025 ug/L	-0.0025 ppb	14:08:25
1	Mo 202.031†	29.4	7.9	0.6163 ug/L	0.6163 ppb	14:08:25
1	Na 589.592 Radial†	-82.9	20.7	7.2481 ug/L	7.2481 ppb	14:06:49
1	Ni 231.604†	91.1	-1.5	-0.0390 ug/L	-0.0390 ppb	14:08:25
1	P 214.914†	243.7	-2.2	-1.1895 ug/L	-1.1895 ppb	14:08:25
1	Pb 220.353†	-13.7	2.4	0.3151 ug/L	0.3151 ppb	14:08:25
1	S 181.975 Axial†	45.7	-16.5	-21.422 ug/L	-21.422 ppb	14:08:25
1	Sb 206.836†	52.4	7.9	2.7594 ug/L	2.7594 ppb	14:08:25
1	Se 196.026†	-19.5	7.2	4.1965 ug/L	4.1965 ppb	14:08:25
1	Si 251.611†	554.9	-116.9	-3.6909 ug/L	-3.6909 ppb	14:08:25
1	Sn 189.927†	26.1	-9.9	-1.8319 ug/L	-1.8319 ppb	14:08:25
1	Sr 421.552†	27.9	-83.7	-0.6957 ug/L	-0.6957 ppb	14:06:49
1	Ti 334.940†	-1531.3	87.3	0.1432 ug/L	0.1432 ppb	14:08:05
1	Tl 190.801†	-18.1	3.4	1.1110 ug/L	1.1110 ppb	14:08:25
1	U 409.014†	-3450.9	158.5	5.0979 ug/L	5.0979 ppb	14:08:05
1	V 292.402†	-1749.4	41.0	0.3356 ug/L	0.3356 ppb	14:08:05
1	Zn 213.857†	872.3	1.2	0.0100 ug/L	0.0100 ppb	14:08:25
1	SiO2†	619.6	21.8	1.4441 ug/L	1.4441 ppb	14:09:22
2	Sc 361.383	813682.3	813682.3	102.25 %		14:08:31
2	Sc Radial	3973.8	3973.8	99.9 %		14:07:14
2	Y 371.029	658784.2	658784.2	102.46 %		14:08:31
2	Y RADIAL	4109.5	4109.5	99.48 %		14:07:14
2	Ag 328.068†	300.8	108.5	0.5257 ug/L	0.5257 ppb	14:08:31
2	Al 396.153Radial†	-143.0	-1.1	-1.2094 ug/L	-1.2094 ppb	14:07:14
2	As 188.979†	-28.4	-0.1	-0.0802 ug/L	-0.0802 ppb	14:08:51
2	B 249.677†	203.4	140.9	3.3755 ug/L	3.3755 ppb	14:08:31
2	Ba 233.527†	18.3	11.4	0.0932 ug/L	0.0932 ppb	14:08:51
2	Be 313.107†	-4285.6	47.2	0.0183 ug/L	0.0183 ppb	14:08:31
2	Ca 317.933Radial†	17.8	-6.5	-12.529 ug/L	-12.529 ppb	14:07:34
2	Cd 226.502†	-209.4	3.8	0.0568 ug/L	0.0568 ppb	14:08:51
2	Co 228.616†	-82.6	-2.4	-0.0457 ug/L	-0.0457 ppb	14:08:51
2	Cr 267.716†	421.4	-285.0	-3.5273 ug/L	-3.5273 ppb	14:08:51
2	Cu 324.752†	8377.0	-126.5	-0.4010 ug/L	-0.4010 ppb	14:08:31
2	Fe 238.204 Radial†	3.0	-8.0	-88.201 ug/L	-88.201 ppb	14:07:34
2	K 766.490 Radial†	3089.6	-116.9	-25.311 ug/L	-25.311 ppb	14:07:14
2	Mg 279.077 IEC†	2.3	0.9	36.061 ug/L	36.061 ppb	14:07:34
2	Mn 257.610†	550.3	-13.2	-0.0255 ug/L	-0.0255 ppb	14:08:51
2	Mo 202.031†	30.2	8.4	0.6449 ug/L	0.6449 ppb	14:08:51
2	Na 589.592 Radial†	-153.5	-49.9	-17.504 ug/L	-17.504 ppb	14:07:14
2	Ni 231.604†	77.6	-15.7	-0.4184 ug/L	-0.4184 ppb	14:08:51

2	P 214.914†	244.7	-4.0	-2.0735 ug/L	-2.0735 ppb	14:08:51
2	Pb 220.353†	-26.9	-10.3	-1.3266 ug/L	-1.3266 ppb	14:08:51
2	S 181.975 Axial†	58.3	-4.7	-6.0820 ug/L	-6.0820 ppb	14:08:51
2	Sb 206.836†	43.2	-1.7	-0.6223 ug/L	-0.6223 ppb	14:08:51
2	Se 196.026†	-16.4	10.4	5.7202 ug/L	5.7202 ppb	14:08:51
2	Si 251.611†	563.2	-115.2	-3.6367 ug/L	-3.6367 ppb	14:08:51
2	Sn 189.927†	22.7	-13.5	-2.4935 ug/L	-2.4935 ppb	14:08:51
2	Sr 421.552†	28.8	-82.9	-0.6890 ug/L	-0.6890 ppb	14:07:14
2	Ti 334.940†	-1481.5	153.5	0.2492 ug/L	0.2492 ppb	14:08:31
2	Tl 190.801†	-22.1	-0.2	-0.0714 ug/L	-0.0714 ppb	14:08:51
2	U 409.014†	-3502.3	147.8	4.7650 ug/L	4.7650 ppb	14:08:31
2	V 292.402†	-1813.9	-2.0	0.0170 ug/L	0.0170 ppb	14:08:31
2	Zn 213.857†	876.5	-4.7	-0.0305 ug/L	-0.0305 ppb	14:08:51
2	SiO2†	575.0	-29.0	-1.9605 ug/L	-1.9605 ppb	14:09:27
3	Sc 361.383	750714.7	750714.7	94.340 %		14:08:56
3	Sc Radial	3926.7	3926.7	98.8 %		14:07:39
3	Y 371.029	607861.3	607861.3	94.536 %		14:08:56
3	Y RADIAL	4091.5	4091.5	99.05 %		14:07:39
3	Ag 328.068†	297.7	129.9	0.6616 ug/L	0.6616 ppb	14:08:56
3	Al 396.153Radial†	-120.7	19.6	20.294 ug/L	20.294 ppb	14:07:39
3	As 188.979†	-33.2	-7.5	-3.1947 ug/L	-3.1947 ppb	14:09:16
3	B 249.677†	221.3	176.5	4.2152 ug/L	4.2152 ppb	14:08:56
3	Ba 233.527†	9.6	3.7	0.0292 ug/L	0.0292 ppb	14:09:16
3	Be 313.107†	-4274.8	-292.8	-0.1097 ug/L	-0.1097 ppb	14:08:56
3	Ca 317.933Radial†	20.1	-3.9	-7.6380 ug/L	-7.6380 ppb	14:07:59
3	Cd 226.502†	-206.6	-10.4	-0.1263 ug/L	-0.1263 ppb	14:09:16
3	Co 228.616†	-71.4	2.7	0.0607 ug/L	0.0607 ppb	14:09:16
3	Cr 267.716†	397.6	-275.7	-3.4075 ug/L	-3.4075 ppb	14:09:16
3	Cu 324.752†	8310.5	490.1	1.5268 ug/L	1.5268 ppb	14:08:56
3	Fe 238.204 Radial†	8.8	-2.1	-23.547 ug/L	-23.547 ppb	14:07:59
3	K 766.490 Radial†	3013.0	-157.3	-34.064 ug/L	-34.064 ppb	14:07:39
3	Mg 279.077 IEC†	-0.5	-1.9	-74.503 ug/L	-74.503 ppb	14:07:59
3	Mn 257.610†	544.9	26.1	0.0311 ug/L	0.0311 ppb	14:09:16
3	Mo 202.031†	26.6	7.1	0.5506 ug/L	0.5506 ppb	14:09:16
3	Na 589.592 Radial†	-237.3	-136.5	-47.893 ug/L	-47.893 ppb	14:07:39
3	Ni 231.604†	93.2	7.2	0.1921 ug/L	0.1921 ppb	14:09:16
3	P 214.914†	244.6	15.9	8.4322 ug/L	8.4322 ppb	14:09:16
3	Pb 220.353†	-27.8	-13.5	-1.7330 ug/L	-1.7330 ppb	14:09:16
3	S 181.975 Axial†	50.3	-8.3	-10.826 ug/L	-10.826 ppb	14:09:16
3	Sb 206.836†	45.5	4.2	1.5116 ug/L	1.5116 ppb	14:09:16
3	Se 196.026†	-18.1	7.3	4.1447 ug/L	4.1447 ppb	14:09:16
3	Si 251.611†	620.6	-8.1	-0.2617 ug/L	-0.2617 ppb	14:09:16
3	Sn 189.927†	36.3	2.8	0.5226 ug/L	0.5226 ppb	14:09:16
3	Sr 421.552†	51.3	-59.7	-0.4964 ug/L	-0.4964 ppb	14:07:39
3	Ti 334.940†	-1522.8	-11.9	-0.0110 ug/L	-0.0110 ppb	14:08:56
3	Tl 190.801†	-32.3	-12.9	-4.1443 ug/L	-4.1443 ppb	14:09:16
3	U 409.014†	-3530.5	-169.4	-5.4324 ug/L	-5.4324 ppb	14:08:56
3	V 292.402†	-1735.7	-67.9	-0.5262 ug/L	-0.5262 ppb	14:08:56
3	Zn 213.857†	855.8	45.3	0.4525 ug/L	0.4525 ppb	14:09:16
3	SiO2†	579.9	23.4	1.5579 ug/L	1.5579 ppb	14:09:32

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	789554.9	99.221 %	4.2682			4.30%
Sc Radial	3956.5	99.5 %	0.65			0.65%
Y 371.029	639804.4	99.503 %	4.3276			4.35%
Y RADIAL	4109.6	99.48 %	0.437			0.44%
Ag 328.068†	112.8	0.5675 ug/L	0.08172	0.5675 ppb	0.08172	14.40%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	9.2	9.5197 ug/L	10.75165	9.5197 ppb	10.75165	112.94%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.7	-0.2929 ug/L	2.80158	-0.2929 ppb	2.80158	956.58%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	141.6	3.3837 ug/L	0.82740	3.3837 ppb	0.82740	24.45%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	6.6	0.0543 ug/L	0.03417	0.0543 ppb	0.03417	62.89%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-26.8	-0.0097 ug/L	0.08929	-0.0097 ppb	0.08929	916.36%
QC value within limits for Be 313.107 Recovery = Not calculated						

Ca 317.933Radial†	-5.1	-9.8115 ug/L	2.49028	-9.8115 ppb	2.49028	25.38%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-2.6	-0.0285 ug/L	0.09220	-0.0285 ppb	0.09220	323.06%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	3.9	0.0858 ug/L	0.14565	0.0858 ppb	0.14565	169.84%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-279.4	-3.4559 ug/L	0.06317	-3.4559 ppb	0.06317	1.83%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	85.1	0.2622 ug/L	1.09561	0.2622 ppb	1.09561	417.88%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-2.9	-32.351 ug/L	52.0109	-32.351 ppb	52.0109	160.77%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-121.7	-26.358 ug/L	7.2384	-26.358 ppb	7.2384	27.46%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-0.4	-15.675 ug/L	55.6222	-15.675 ppb	55.6222	354.85%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	3.1	0.0010 ug/L	0.02848	0.0010 ppb	0.02848	>999.9%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	7.8	0.6039 ug/L	0.04839	0.6039 ppb	0.04839	8.01%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-55.3	-19.383 ug/L	27.6186	-19.383 ppb	27.6186	142.49%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	-3.3	-0.0884 ug/L	0.30825	-0.0884 ppb	0.30825	348.58%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	3.2	1.7231 ug/L	5.82706	1.7231 ppb	5.82706	338.18%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-7.1	-0.9148 ug/L	1.08433	-0.9148 ppb	1.08433	118.53%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-9.8	-12.776 ug/L	7.8538	-12.776 ppb	7.8538	61.47%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	3.5	1.2162 ug/L	1.71012	1.2162 ppb	1.71012	140.61%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	8.3	4.6871 ug/L	0.89503	4.6871 ppb	0.89503	19.10%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-80.1	-2.5298 ug/L	1.96436	-2.5298 ppb	1.96436	77.65%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-6.9	-1.2676 ug/L	1.58529	-1.2676 ppb	1.58529	125.06%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-75.4	-0.6270 ug/L	0.11318	-0.6270 ppb	0.11318	18.05%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	76.3	0.1272 ug/L	0.13083	0.1272 ppb	0.13083	102.89%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-3.2	-1.0349 ug/L	2.75692	-1.0349 ppb	2.75692	266.40%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	45.6	1.4769 ug/L	5.98592	1.4769 ppb	5.98592	405.31%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-9.6	-0.0579 ug/L	0.43575	-0.0579 ppb	0.43575	753.13%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	13.9	0.1440 ug/L	0.26792	0.1440 ppb	0.26792	186.03%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	5.4	0.3472 ug/L	1.99931	0.3472 ppb	1.99931	575.88%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 8
 Sample ID: PQL
 Analyst:
 Logged In Analyst (Original) : Optima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 11
 Date Collected: 2/17/2010 14:11:42
 Data Type: Reprocessed on 2/17/2010 15:41:11
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	799442.7	799442.7	100.46 %		14:14:52
1	Sc Radial	3904.9	3904.9	98.2 %		14:13:55
1	Y 371.029	648510.5	648510.5	100.86 %		14:14:52
1	Y RADIAL	4161.4	4161.4	100.7 %		14:13:35
1	Ag 328.068†	1189.9	998.8	5.1225 ug/L	5.1225 ppb	14:14:52
1	Al 396.153Radial†	25.5	167.9	173.19 ug/L	173.19 ppb	14:13:35
1	As 188.979†	33.1	60.6	25.698 ug/L	25.698 ppb	14:15:12
1	B 249.677†	2163.8	2095.7	49.971 ug/L	49.971 ppb	14:14:52
1	Ba 233.527†	624.2	614.9	5.1754 ug/L	5.1754 ppb	14:15:12
1	Be 313.107†	9117.3	13313.6	4.9969 ug/L	4.9969 ppb	14:14:52
1	Ca 317.933Radial†	130.3	108.4	210.45 ug/L	210.45 ppb	14:13:55
1	Cd 226.502†	217.9	425.5	5.2541 ug/L	5.2541 ppb	14:15:12
1	Co 228.616†	149.7	227.5	4.8092 ug/L	4.8092 ppb	14:15:12
1	Cr 267.716†	726.7	26.2	0.3099 ug/L	0.3099 ppb	14:15:12
1	Cu 324.752†	11562.6	3190.3	9.8994 ug/L	9.8994 ppb	14:14:52
1	Fe 238.204 Radial†	19.3	8.6	94.357 ug/L	94.357 ppb	14:13:55
1	K 766.490 Radial†	3721.5	581.1	125.71 ug/L	125.71 ppb	14:13:35
1	Mg 279.077 IEC†	10.8	9.6	376.63 ug/L	376.63 ppb	14:13:55
1	Mn 257.610†	9421.5	8826.6	10.251 ug/L	10.251 ppb	14:14:52
1	Mo 202.031†	153.7	131.9	10.233 ug/L	10.233 ppb	14:15:12
1	Na 589.592 Radial†	706.3	822.8	288.59 ug/L	288.59 ppb	14:13:35
1	Ni 231.604†	282.2	189.4	5.0583 ug/L	5.0583 ppb	14:15:12
1	P 214.914†	511.5	265.8	143.63 ug/L	143.63 ppb	14:15:12
1	Pb 220.353†	53.1	68.8	8.9448 ug/L	8.9448 ppb	14:15:12
1	S 181.975 Axial†	136.1	73.8	95.765 ug/L	95.765 ppb	14:15:12
1	Sb 206.836†	81.2	36.9	13.275 ug/L	13.275 ppb	14:15:12
1	Se 196.026†	30.4	56.7	32.879 ug/L	32.879 ppb	14:15:12
1	Si 251.611†	3686.1	3003.2	94.467 ug/L	94.467 ppb	14:14:52
1	Sn 189.927†	71.5	35.5	6.5905 ug/L	6.5905 ppb	14:15:12
1	Sr 421.552†	644.8	544.9	4.5281 ug/L	4.5281 ppb	14:13:35
1	Ti 334.940†	1544.1	3139.3	5.1792 ug/L	5.1792 ppb	14:14:52
1	Tl 190.801†	36.9	58.1	18.786 ug/L	18.786 ppb	14:15:12
1	U 409.014†	-1797.4	1783.7	57.298 ug/L	57.298 ppb	14:14:52
1	V 292.402†	-1147.5	629.7	5.1273 ug/L	5.1273 ppb	14:14:52
1	Zn 213.857†	2033.3	1162.0	11.546 ug/L	11.546 ppb	14:15:12
1	SiO2†	3728.7	3120.2	209.04 ug/L	209.04 ppb	14:16:09
2	Sc 361.383	811381.8	811381.8	101.96 %		14:15:18
2	Sc Radial	3885.2	3885.2	97.7 %		14:14:21
2	Y 371.029	658475.5	658475.5	102.41 %		14:15:18
2	Y RADIAL	4138.1	4138.1	100.2 %		14:14:01
2	Ag 328.068†	1211.0	1002.1	5.1420 ug/L	5.1420 ppb	14:15:18
2	Al 396.153Radial†	53.5	196.7	202.98 ug/L	202.98 ppb	14:14:01
2	As 188.979†	38.1	65.0	27.586 ug/L	27.586 ppb	14:15:38
2	B 249.677†	2161.1	2061.5	49.152 ug/L	49.152 ppb	14:15:18
2	Ba 233.527†	620.0	601.7	5.0648 ug/L	5.0648 ppb	14:15:38
2	Be 313.107†	9276.1	13335.9	5.0052 ug/L	5.0052 ppb	14:15:18
2	Ca 317.933Radial†	127.8	106.6	206.91 ug/L	206.91 ppb	14:14:21
2	Cd 226.502†	209.2	413.8	5.1085 ug/L	5.1085 ppb	14:15:38
2	Co 228.616†	153.7	229.2	4.8458 ug/L	4.8458 ppb	14:15:38
2	Cr 267.716†	748.7	37.1	0.4450 ug/L	0.4450 ppb	14:15:38
2	Cu 324.752†	11676.6	3132.7	9.7211 ug/L	9.7211 ppb	14:15:18
2	Fe 238.204 Radial†	19.5	8.9	97.987 ug/L	97.987 ppb	14:14:21
2	K 766.490 Radial†	3757.3	637.0	137.82 ug/L	137.82 ppb	14:14:01
2	Mg 279.077 IEC†	9.1	8.0	312.81 ug/L	312.81 ppb	14:14:21
2	Mn 257.610†	9614.6	8878.0	10.314 ug/L	10.314 ppb	14:15:18
2	Mo 202.031†	163.4	139.1	10.795 ug/L	10.795 ppb	14:15:38
2	Na 589.592 Radial†	652.0	770.9	270.40 ug/L	270.40 ppb	14:14:01
2	Ni 231.604†	293.5	196.3	5.2436 ug/L	5.2436 ppb	14:15:38

2	P 214.914†	509.8	256.7	138.67 ug/L	138.67 ppb	14:15:38
2	Pb 220.353†	46.4	61.5	8.0074 ug/L	8.0074 ppb	14:15:38
2	S 181.975 Axial†	141.6	77.2	100.14 ug/L	100.14 ppb	14:15:38
2	Sb 206.836†	65.8	20.5	7.5446 ug/L	7.5446 ppb	14:15:38
2	Se 196.026†	43.2	68.9	39.872 ug/L	39.872 ppb	14:15:38
2	Si 251.611†	3719.0	2981.4	93.774 ug/L	93.774 ppb	14:15:18
2	Sn 189.927†	77.4	40.2	7.4558 ug/L	7.4558 ppb	14:15:38
2	Sr 421.552†	651.9	555.4	4.6156 ug/L	4.6156 ppb	14:14:01
2	Ti 334.940†	1583.2	3155.1	5.2104 ug/L	5.2104 ppb	14:15:18
2	Tl 190.801†	49.9	70.2	22.700 ug/L	22.700 ppb	14:15:38
2	U 409.014†	-1852.4	1756.2	56.411 ug/L	56.411 ppb	14:15:18
2	V 292.402†	-1139.2	654.6	5.3254 ug/L	5.3254 ppb	14:15:18
2	Zn 213.857†	2020.6	1119.8	11.122 ug/L	11.122 ppb	14:15:38
2	SiO2†	3742.5	3079.1	206.27 ug/L	206.27 ppb	14:16:14
3	Sc 361.383	816060.6	816060.6	102.55 %		14:15:43
3	Sc Radial	3904.3	3904.3	98.2 %		14:14:46
3	Y 371.029	661431.1	661431.1	102.87 %		14:15:43
3	Y RADIAL	4184.3	4184.3	101.3 %		14:14:26
3	Ag 328.068†	1139.1	925.2	4.7498 ug/L	4.7498 ppb	14:15:43
3	Al 396.153Radial†	51.2	194.0	200.24 ug/L	200.24 ppb	14:14:26
3	As 188.979†	28.8	55.8	23.671 ug/L	23.671 ppb	14:16:03
3	B 249.677†	2180.5	2068.2	49.309 ug/L	49.309 ppb	14:15:43
3	Ba 233.527†	628.4	606.3	5.1044 ug/L	5.1044 ppb	14:16:03
3	Be 313.107†	9306.2	13313.0	4.9967 ug/L	4.9967 ppb	14:15:43
3	Ca 317.933Radial†	131.0	109.2	211.96 ug/L	211.96 ppb	14:14:46
3	Cd 226.502†	203.8	407.4	5.0287 ug/L	5.0287 ppb	14:16:03
3	Co 228.616†	150.5	225.2	4.7598 ug/L	4.7598 ppb	14:16:03
3	Cr 267.716†	727.5	12.2	0.1358 ug/L	0.1358 ppb	14:16:03
3	Cu 324.752†	11787.0	3174.7	9.8494 ug/L	9.8494 ppb	14:15:43
3	Fe 238.204 Radial†	21.9	11.3	123.99 ug/L	123.99 ppb	14:14:46
3	K 766.490 Radial†	3598.4	456.3	98.657 ug/L	98.657 ppb	14:14:26
3	Mg 279.077 IEC†	7.6	6.3	247.95 ug/L	247.95 ppb	14:14:46
3	Mn 257.610†	9608.8	8818.3	10.250 ug/L	10.250 ppb	14:15:43
3	Mo 202.031†	153.1	128.1	9.9444 ug/L	9.9444 ppb	14:16:03
3	Na 589.592 Radial†	743.6	860.9	301.95 ug/L	301.95 ppb	14:14:26
3	Ni 231.604†	298.3	199.3	5.3231 ug/L	5.3231 ppb	14:16:03
3	P 214.914†	504.9	249.0	134.43 ug/L	134.43 ppb	14:16:03
3	Pb 220.353†	59.0	73.5	9.5546 ug/L	9.5546 ppb	14:16:03
3	S 181.975 Axial†	125.3	60.5	78.458 ug/L	78.458 ppb	14:16:03
3	Sb 206.836†	68.0	22.3	8.1557 ug/L	8.1557 ppb	14:16:03
3	Se 196.026†	34.8	60.4	35.062 ug/L	35.062 ppb	14:16:03
3	Si 251.611†	3735.3	2976.4	93.629 ug/L	93.629 ppb	14:15:43
3	Sn 189.927†	73.0	35.5	6.5869 ug/L	6.5869 ppb	14:16:03
3	Sr 421.552†	596.6	495.8	4.1202 ug/L	4.1202 ppb	14:14:26
3	Ti 334.940†	1602.4	3164.9	5.2299 ug/L	5.2299 ppb	14:15:43
3	Tl 190.801†	41.6	61.9	20.004 ug/L	20.004 ppb	14:16:03
3	U 409.014†	-1652.6	1961.4	63.005 ug/L	63.005 ppb	14:15:43
3	V 292.402†	-1157.0	643.7	5.2359 ug/L	5.2359 ppb	14:15:43
3	Zn 213.857†	2024.8	1112.6	11.046 ug/L	11.046 ppb	14:16:03
3	SiO2†	3675.9	2993.2	200.53 ug/L	200.53 ppb	14:16:19

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	808961.7	101.66 %	1.077			1.06%
Sc Radial	3898.1	98.0 %	0.28			0.29%
Y 371.029	656139.0	102.04 %	1.053			1.03%
Y RADIAL	4161.3	100.7 %	0.56			0.55%
Ag 328.068†	975.3	5.0048 ug/L	0.22103	5.0048 ppb	0.22103	4.42%
QC value within limits for Ag 328.068 Recovery = 100.10%						
Al 396.153Radial†	186.2	192.14 ug/L	16.467	192.14 ppb	16.467	8.57%
QC value within limits for Al 396.153Radial Recovery = 96.07%						
As 188.979†	60.5	25.651 ug/L	1.9579	25.651 ppb	1.9579	7.63%
QC value within limits for As 188.979 Recovery = 85.50%						
B 249.677†	2075.1	49.478 ug/L	0.4347	49.478 ppb	0.4347	0.88%
QC value within limits for B 249.677 Recovery = 98.96%						
Ba 233.527†	607.6	5.1149 ug/L	0.05602	5.1149 ppb	0.05602	1.10%
QC value within limits for Ba 233.527 Recovery = 102.30%						
Be 313.107†	13320.8	4.9996 ug/L	0.00487	4.9996 ppb	0.00487	0.10%
QC value within limits for Be 313.107 Recovery = 99.99%						

QC value within limits for Ca 317.933 Radial Recovery = 104.89%							
Cd 226.502†	415.6	5.1304 ug/L	0.11427	5.1304 ppb	0.11427	2.23%	
QC value within limits for Cd 226.502 Recovery = 102.61%							
Co 228.616†	227.3	4.8050 ug/L	0.04317	4.8050 ppb	0.04317	0.90%	
QC value within limits for Co 228.616 Recovery = 96.10%							
Cr 267.716†	25.2	0.2969 ug/L	0.15498	0.2969 ppb	0.15498	52.20%	
QC value less than the lower limit for Cr 267.716 Recovery = 5.94%							
Cu 324.752†	3165.9	9.8233 ug/L	0.09197	9.8233 ppb	0.09197	0.94%	
QC value within limits for Cu 324.752 Recovery = 98.23%							
Fe 238.204 Radial†	9.6	105.45 ug/L	16.166	105.45 ppb	16.166	15.33%	
QC value within limits for Fe 238.204 Radial Recovery = 105.45%							
K 766.490 Radial†	558.1	120.73 ug/L	20.050	120.73 ppb	20.050	16.61%	
QC value within limits for K 766.490 Radial Recovery = 80.49%							
Mg 279.077 IEC†	8.0	312.46 ug/L	64.343	312.46 ppb	64.343	20.59%	
QC value within limits for Mg 279.077 IEC Recovery = 104.15%							
Mn 257.610†	8841.0	10.272 ug/L	0.0366	10.272 ppb	0.0366	0.36%	
QC value within limits for Mn 257.610 Recovery = 102.72%							
Mo 202.031†	133.1	10.324 ug/L	0.4326	10.324 ppb	0.4326	4.19%	
QC value within limits for Mo 202.031 Recovery = 103.24%							
Na 589.592 Radial†	818.2	286.98 ug/L	15.836	286.98 ppb	15.836	5.52%	
QC value within limits for Na 589.592 Radial Recovery = 95.66%							
Ni 231.604†	195.0	5.2083 ug/L	0.13586	5.2083 ppb	0.13586	2.61%	
QC value within limits for Ni 231.604 Recovery = 104.17%							
P 214.914†	257.2	138.91 ug/L	4.604	138.91 ppb	4.604	3.31%	
QC value within limits for P 214.914 Recovery = 92.61%							
Pb 220.353†	67.9	8.8356 ug/L	0.77939	8.8356 ppb	0.77939	8.82%	
QC value within limits for Pb 220.353 Recovery = 88.36%							
S 181.975 Axial†	70.5	91.453 ug/L	11.4647	91.453 ppb	11.4647	12.54%	
QC value within limits for S 181.975 Axial Recovery = 91.45%							
Sb 206.836†	26.6	9.6586 ug/L	3.14717	9.6586 ppb	3.14717	32.58%	
QC value within limits for Sb 206.836 Recovery = 96.59%							
Se 196.026†	62.0	35.975 ug/L	3.5786	35.975 ppb	3.5786	9.95%	
QC value within limits for Se 196.026 Recovery = 119.92%							
Si 251.611†	2987.0	93.957 ug/L	0.4478	93.957 ppb	0.4478	0.48%	
QC value within limits for Si 251.611 Recovery = 93.96%							
Sn 189.927†	37.1	6.8777 ug/L	0.50061	6.8777 ppb	0.50061	7.28%	
QC value less than the lower limit for Sn 189.927 Recovery = 68.78%							
Sr 421.552†	532.0	4.4213 ug/L	0.26439	4.4213 ppb	0.26439	5.98%	
QC value within limits for Sr 421.552 Recovery = 88.43%							
Ti 334.940†	3153.1	5.2065 ug/L	0.02558	5.2065 ppb	0.02558	0.49%	
QC value within limits for Ti 334.940 Recovery = 104.13%							
Tl 190.801†	63.4	20.497 ug/L	2.0026	20.497 ppb	2.0026	9.77%	
QC value within limits for Tl 190.801 Recovery = 102.48%							
U 409.014†	1833.8	58.905 ug/L	3.5783	58.905 ppb	3.5783	6.07%	
QC value within limits for U 409.014 Recovery = 117.81%							
V 292.402†	642.7	5.2296 ug/L	0.09922	5.2296 ppb	0.09922	1.90%	
QC value within limits for V 292.402 Recovery = 104.59%							
Zn 213.857†	1131.5	11.238 ug/L	0.2694	11.238 ppb	0.2694	2.40%	
QC value within limits for Zn 213.857 Recovery = 112.38%							
SiO2†	3064.2	205.28 ug/L	4.343	205.28 ppb	4.343	2.12%	
QC value within limits for SiO2 Recovery = 96.38%							
QC Failed. Continue with analysis.							

Sequence No.: 9

Sample ID: ICSCA

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 2/17/2010 14:18:30

Data Type: Reprocessed on 2/17/2010 15:41:12

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSCA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	701715.3	701715.3	88.183 %		14:21:40
1	Sc Radial	3564.8	3564.8	89.7 %		14:20:43
1	Y 371.029	556417.1	556417.1	86.535 %		14:21:40
1	Y RADIAL	3695.6	3695.6	89.46 %		14:20:43
1	Ag 328.068†	-8994.9	-10385.9	0.9054 ug/L	0.9054 ppb	14:21:40
1	Al 396.153Radial†	465545.4	519363.1	537360 ug/L	537360 ppb	14:20:23
1	As 188.979†	-111.8	-99.2	4.3846 ug/L	4.3846 ppb	14:22:01
1	B 249.677†	1253.2	1363.1	0.2779 ug/L	0.2779 ppb	14:21:40
1	Ba 233.527†	-522.1	-598.5	1.0516 ug/L	1.0516 ppb	14:22:01
1	Be 313.107†	-4330.8	-672.8	-0.2986 ug/L	-0.2986 ppb	14:21:40
1	Ca 317.933Radial†	233239.1	260106.5	505090 ug/L	505090 ppb	14:20:23
1	Cd 226.502†	1140.4	1501.8	-1.9669 ug/L	-1.9669 ppb	14:22:01
1	Co 228.616†	7.5	86.9	-1.0395 ug/L	-1.0395 ppb	14:22:01
1	Cr 267.716†	130.8	-548.9	-2.9222 ug/L	-2.9222 ppb	14:22:01
1	Cu 324.752†	5943.2	-1579.3	5.5695 ug/L	5.5695 ppb	14:21:40
1	Fe 238.204 Radial†	16235.6	18096.5	198520 ug/L	198520 ppb	14:20:43
1	K 766.490 Radial†	2977.7	113.0	-144.55 ug/L	-144.55 ppb	14:20:23
1	Mg 279.077 IEC†	11845.2	13209.6	516130 ug/L	516130 ppb	14:20:43
1	Mn 257.610†	1631.2	1298.4	0.0040 ug/L	0.0040 ppb	14:21:40
1	Mo 202.031†	-215.4	-265.4	0.8466 ug/L	0.8466 ppb	14:22:01
1	Na 589.592 Radial†	613.2	787.6	276.26 ug/L	276.26 ppb	14:20:43
1	Ni 231.604†	249.2	191.1	5.1059 ug/L	5.1059 ppb	14:22:01
1	P 214.914†	221.4	7.7	-21.298 ug/L	-21.298 ppb	14:22:01
1	Pb 220.353†	-813.6	-906.7	-11.899 ug/L	-11.899 ppb	14:22:01
1	S 181.975 Axial†	72.1	20.1	-74.613 ug/L	-74.613 ppb	14:22:01
1	Sb 206.836†	88.3	56.2	1.7644 ug/L	1.7644 ppb	14:22:01
1	Se 196.026†	-883.8	-975.7	11.820 ug/L	11.820 ppb	14:22:01
1	Si 251.611†	587.6	0.4	0.2651 ug/L	0.2651 ppb	14:22:01
1	Sn 189.927†	-273.2	-345.5	-11.623 ug/L	-11.623 ppb	14:22:01
1	Sr 421.552†	494.7	440.0	-0.1134 ug/L	-0.1134 ppb	14:20:43
1	Ti 334.940†	-12356.5	-12410.1	4.9710 ug/L	4.9710 ppb	14:21:40
1	Tl 190.801†	-72.7	-61.1	-19.902 ug/L	-19.902 ppb	14:22:01
1	U 409.014†	-1952.8	1358.4	21.029 ug/L	21.029 ppb	14:21:40
1	V 292.402†	269.8	2077.8	-3.0030 ug/L	-3.0030 ppb	14:22:01
1	Zn 213.857†	3171.1	2734.2	-2.4272 ug/L	-2.4272 ppb	14:22:01
1	SiO2†	600.1	89.3	6.5505 ug/L	6.5505 ppb	14:22:57
2	Sc 361.383	697891.5	697891.5	87.702 %		14:22:06
2	Sc Radial	3655.8	3655.8	92.0 %		14:21:08
2	Y 371.029	553224.4	553224.4	86.038 %		14:22:06
2	Y RADIAL	3790.9	3790.9	91.77 %		14:21:08
2	Ag 328.068†	-8967.0	-10410.0	-1.0923 ug/L	-1.0923 ppb	14:22:06
2	Al 396.153Radial†	450976.9	490597.3	507590 ug/L	507590 ppb	14:20:48
2	As 188.979†	-113.1	-101.3	1.7610 ug/L	1.7610 ppb	14:22:26
2	B 249.677†	1345.9	1476.5	4.1738 ug/L	4.1738 ppb	14:22:06
2	Ba 233.527†	-520.1	-599.5	0.8204 ug/L	0.8204 ppb	14:22:26
2	Be 313.107†	-4189.2	-538.2	-0.2466 ug/L	-0.2466 ppb	14:22:06
2	Ca 317.933Radial†	225881.0	245630.4	476980 ug/L	476980 ppb	14:20:48
2	Cd 226.502†	1129.4	1496.4	-1.2769 ug/L	-1.2769 ppb	14:22:26
2	Co 228.616†	8.5	88.2	-0.9116 ug/L	-0.9116 ppb	14:22:26
2	Cr 267.716†	134.3	-544.1	-3.0069 ug/L	-3.0069 ppb	14:22:26
2	Cu 324.752†	5564.1	-1974.7	3.9491 ug/L	3.9491 ppb	14:22:06
2	Fe 238.204 Radial†	16035.7	17428.4	191190 ug/L	191190 ppb	14:21:08
2	K 766.490 Radial†	2998.0	52.4	-148.29 ug/L	-148.29 ppb	14:20:48
2	Mg 279.077 IEC†	11690.6	12712.7	496720 ug/L	496720 ppb	14:21:08
2	Mn 257.610†	1280.5	908.6	-0.3786 ug/L	-0.3786 ppb	14:22:06
2	Mo 202.031†	-227.0	-280.0	-1.1830 ug/L	-1.1830 ppb	14:22:26
2	Na 589.592 Radial†	612.6	770.0	270.06 ug/L	270.06 ppb	14:21:08
2	Ni 231.604†	209.4	147.2	3.9343 ug/L	3.9343 ppb	14:22:26

2	P 214.914†	221.8	9.6	-21.551 ug/L	-21.551 ppb	14:22:26
2	Pb 220.353†	-796.4	-892.1	-16.204 ug/L	-16.204 ppb	14:22:26
2	S 181.975 Axial†	87.8	38.4	-45.298 ug/L	-45.298 ppb	14:22:26
2	Sb 206.836†	89.2	57.7	3.1772 ug/L	3.1772 ppb	14:22:26
2	Se 196.026†	-850.3	-943.1	9.8963 ug/L	9.8963 ppb	14:22:26
2	Si 251.611†	605.2	24.1	1.0262 ug/L	1.0262 ppb	14:22:26
2	Sn 189.927†	-262.2	-334.7	-12.998 ug/L	-12.998 ppb	14:22:26
2	Sr 421.552†	467.5	396.8	-0.2632 ug/L	-0.2632 ppb	14:21:08
2	Ti 334.940†	-11895.2	-11960.9	3.5301 ug/L	3.5301 ppb	14:22:06
2	Tl 190.801†	-65.1	-52.9	-17.253 ug/L	-17.253 ppb	14:22:26
2	U 409.014†	-1814.5	1503.9	26.538 ug/L	26.538 ppb	14:22:06
2	V 292.402†	276.0	2086.5	-2.2508 ug/L	-2.2508 ppb	14:22:26
2	Zn 213.857†	3160.1	2741.3	-1.2508 ug/L	-1.2508 ppb	14:22:26
2	SiO2†	632.5	129.9	9.3064 ug/L	9.3064 ppb	14:23:02
3	Sc 361.383	694820.0	694820.0	87.316 %		14:22:31
3	Sc Radial	3656.8	3656.8	92.0 %		14:21:34
3	Y 371.029	550101.9	550101.9	85.553 %		14:22:31
3	Y RADIAL	3806.8	3806.8	92.15 %		14:21:34
3	Ag 328.068†	-9074.3	-10578.1	-2.3361 ug/L	-2.3361 ppb	14:22:31
3	Al 396.153Radial†	461292.5	501675.1	519060 ug/L	519060 ppb	14:21:14
3	As 188.979†	-98.6	-85.2	8.3815 ug/L	8.3815 ppb	14:22:51
3	B 249.677†	1224.8	1344.7	1.1566 ug/L	1.1566 ppb	14:22:31
3	Ba 233.527†	-539.8	-624.6	0.5865 ug/L	0.5865 ppb	14:22:51
3	Be 313.107†	-4409.6	-811.8	-0.3493 ug/L	-0.3493 ppb	14:22:31
3	Ca 317.933Radial†	230878.6	250995.0	487400 ug/L	487400 ppb	14:21:14
3	Cd 226.502†	1141.8	1516.3	-0.9498 ug/L	-0.9498 ppb	14:22:51
3	Co 228.616†	-1.6	76.6	-1.1452 ug/L	-1.1452 ppb	14:22:51
3	Cr 267.716†	121.7	-557.9	-3.1919 ug/L	-3.1919 ppb	14:22:51
3	Cu 324.752†	5327.5	-2217.6	3.1516 ug/L	3.1516 ppb	14:22:31
3	Fe 238.204 Radial†	15974.4	17356.9	190410 ug/L	190410 ppb	14:21:34
3	K 766.490 Radial†	2885.3	-71.0	-178.49 ug/L	-178.49 ppb	14:21:14
3	Mg 279.077 IEC†	11648.4	12663.2	494790 ug/L	494790 ppb	14:21:34
3	Mn 257.610†	1100.2	708.6	-0.6095 ug/L	-0.6095 ppb	14:22:31
3	Mo 202.031†	-230.7	-285.3	-1.5318 ug/L	-1.5318 ppb	14:22:51
3	Na 589.592 Radial†	591.9	747.3	262.10 ug/L	262.10 ppb	14:21:34
3	Ni 231.604†	223.0	163.8	4.3762 ug/L	4.3762 ppb	14:22:51
3	P 214.914†	249.7	42.7	0.4440 ug/L	0.4440 ppb	14:22:51
3	Pb 220.353†	-786.0	-884.3	-12.471 ug/L	-12.471 ppb	14:22:51
3	S 181.975 Axial†	78.3	28.0	-60.896 ug/L	-60.896 ppb	14:22:51
3	Sb 206.836†	64.5	29.9	-6.5402 ug/L	-6.5402 ppb	14:22:51
3	Se 196.026†	-890.2	-993.1	-21.718 ug/L	-21.718 ppb	14:22:51
3	Si 251.611†	614.6	37.9	1.4665 ug/L	1.4665 ppb	14:22:51
3	Sn 189.927†	-152.9	-210.8	11.601 ug/L	11.601 ppb	14:22:51
3	Sr 421.552†	466.1	395.1	-0.3552 ug/L	-0.3552 ppb	14:21:34
3	Ti 334.940†	-11904.3	-12031.3	4.9684 ug/L	4.9684 ppb	14:22:31
3	Tl 190.801†	-64.3	-52.3	-17.047 ug/L	-17.047 ppb	14:22:51
3	U 409.014†	-1802.0	1509.1	26.795 ug/L	26.795 ppb	14:22:31
3	V 292.402†	317.7	2135.7	-1.7974 ug/L	-1.7974 ppb	14:22:51
3	Zn 213.857†	3138.6	2732.7	-1.2212 ug/L	-1.2212 ppb	14:22:51
3	SiO2†	569.2	60.6	4.6689 ug/L	4.6689 ppb	14:23:07

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	698142.2	87.734 %	0.4341			0.49%
Sc Radial	3625.8	91.2 %	1.33			1.46%
Y 371.029	553247.8	86.042 %	0.4911			0.57%
Y RADIAL	3764.5	91.13 %	1.456			1.60%
Ag 328.068†	-10458.0	-0.8410 ug/L	1.63530	-0.8410 ppb	1.63530	194.45%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	503878.5	521330 ug/L	15011.5	521330 ppb	15011.5	2.88%
QC value within limits for Al 396.153Radial Recovery = 104.27%						
As 188.979†	-95.2	4.8424 ug/L	3.33393	4.8424 ppb	3.33393	68.85%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	1394.8	1.8694 ug/L	2.04340	1.8694 ppb	2.04340	109.31%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-607.5	0.8195 ug/L	0.23258	0.8195 ppb	0.23258	28.38%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-674.3	-0.2982 ug/L	0.05135	-0.2982 ppb	0.05135	17.22%
QC value within limits for Be 313.107 Recovery = Not calculated						

Ca 317.933Radial†	252244.0	489820 ug/L	14211.4	489820 ppb	14211.4	2.90%
QC value within limits for Ca 317.933Radial Recovery = 97.96%						
Cd 226.502†	1504.8	-1.3979 ug/L	0.51924	-1.3979 ppb	0.51924	37.15%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	83.9	-1.0321 ug/L	0.11699	-1.0321 ppb	0.11699	11.33%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-550.3	-3.0404 ug/L	0.13791	-3.0404 ppb	0.13791	4.54%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-1923.9	4.2234 ug/L	1.23208	4.2234 ppb	1.23208	29.17%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	17627.2	193370 ug/L	4474.9	193370 ppb	4474.9	2.31%
QC value within limits for Fe 238.204 Radial Recovery = 96.69%						
K 766.490 Radial†	31.5	-157.11 ug/L	18.610	-157.11 ppb	18.610	11.85%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	12861.8	502550 ug/L	11806.9	502550 ppb	11806.9	2.35%
QC value within limits for Mg 279.077 IEC Recovery = 100.51%						
Mn 257.610†	971.9	-0.3280 ug/L	0.30988	-0.3280 ppb	0.30988	94.47%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-276.9	-0.6227 ug/L	1.28435	-0.6227 ppb	1.28435	206.24%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	768.3	269.47 ug/L	7.098	269.47 ppb	7.098	2.63%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	167.4	4.4721 ug/L	0.59169	4.4721 ppb	0.59169	13.23%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	20.0	-14.135 ug/L	12.6265	-14.135 ppb	12.6265	89.33%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-894.3	-13.525 ug/L	2.3380	-13.525 ppb	2.3380	17.29%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	28.8	-60.269 ug/L	14.6673	-60.269 ppb	14.6673	24.34%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	47.9	-0.5328 ug/L	5.25024	-0.5328 ppb	5.25024	985.35%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-970.6	-0.0007 ug/L	18.83221	-0.0007 ppb	18.83221	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	20.8	0.9193 ug/L	0.60782	0.9193 ppb	0.60782	66.12%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-297.0	-4.3398 ug/L	13.82249	-4.3398 ppb	13.82249	318.50%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	410.6	-0.2439 ug/L	0.12207	-0.2439 ppb	0.12207	50.04%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-12134.1	4.4898 ug/L	0.83117	4.4898 ppb	0.83117	18.51%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-55.4	-18.067 ug/L	1.5920	-18.067 ppb	1.5920	8.81%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	1457.1	24.787 ug/L	3.2575	24.787 ppb	3.2575	13.14%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	2100.0	-2.3504 ug/L	0.60894	-2.3504 ppb	0.60894	25.91%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	2736.1	-1.6331 ug/L	0.68789	-1.6331 ppb	0.68789	42.12%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	93.3	6.8419 ug/L	2.33244	6.8419 ppb	2.33244	34.09%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 10

Sample ID: ICSAB

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 14

Date Collected: 2/17/2010 14:32:02

Data Type: Reprocessed on 2/17/2010 15:41:13

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	710657.3	710657.3	89.306 %		14:35:12
1	Sc Radial	3658.6	3658.6	92.0 %		14:34:14
1	Y 371.029	560822.9	560822.9	87.220 %		14:35:12
1	Y RADIAL	3805.5	3805.5	92.12 %		14:34:14
1	Ag 328.068†	37615.8	41934.4	268.03 ug/L	268.03 ppb	14:35:12
1	Al 396.153Radial†	450579.8	489795.8	506740 ug/L	506740 ppb	14:33:54
1	As 188.979†	979.9	1124.9	523.48 ug/L	523.48 ppb	14:35:32
1	B 249.677†	19769.4	22078.6	494.91 ug/L	494.91 ppb	14:35:12
1	Ba 233.527†	51123.5	57238.7	487.33 ug/L	487.33 ppb	14:35:12
1	Be 313.107†	581382.3	655236.4	246.43 ug/L	246.43 ppb	14:35:12
1	Ca 317.933Radial†	228414.6	248198.4	481970 ug/L	481970 ppb	14:33:54
1	Cd 226.502†	34890.5	39277.0	465.48 ug/L	465.48 ppb	14:35:32
1	Co 228.616†	18930.9	21276.2	445.84 ug/L	445.84 ppb	14:35:32
1	Cr 267.716†	34608.3	38055.2	474.64 ug/L	474.64 ppb	14:35:12
1	Cu 324.752†	161676.2	172716.6	547.07 ug/L	547.07 ppb	14:35:12
1	Fe 238.204 Radial†	15795.8	17154.6	188200 ug/L	188200 ppb	14:34:14
1	K 766.490 Radial†	25847.2	24880.6	5226.6 ug/L	5226.6 ppb	14:33:54
1	Mg 279.077 IEC†	11630.4	12637.6	493790 ug/L	493790 ppb	14:34:14
1	Mn 257.610†	368095.8	411620.8	476.73 ug/L	476.73 ppb	14:35:12
1	Mo 202.031†	5309.8	5924.5	479.56 ug/L	479.56 ppb	14:35:32
1	Na 589.592 Radial†	15036.0	16443.6	5767.5 ug/L	5767.5 ppb	14:33:54
1	Ni 231.604†	15275.2	17012.7	454.46 ug/L	454.46 ppb	14:35:32
1	P 214.914†	4398.0	4681.3	2435.5 ug/L	2435.5 ppb	14:35:32
1	Pb 220.353†	2441.1	2749.4	455.64 ug/L	455.64 ppb	14:35:32
1	S 181.975 Axial†	1906.8	2073.5	2596.1 ug/L	2596.1 ppb	14:35:32
1	Sb 206.836†	1455.4	1585.7	558.17 ug/L	558.17 ppb	14:35:32
1	Se 196.026†	3081.1	3476.5	2540.8 ug/L	2540.8 ppb	14:35:32
1	Si 251.611†	145818.9	162613.6	5116.3 ug/L	5116.3 ppb	14:35:12
1	Sn 189.927†	2042.7	2251.6	466.41 ug/L	466.41 ppb	14:35:32
1	Sr 421.552†	55997.2	60741.6	501.36 ug/L	501.36 ppb	14:33:54
1	Ti 334.940†	256238.4	288523.2	502.46 ug/L	502.46 ppb	14:35:12
1	Tl 190.801†	1285.2	1460.5	474.01 ug/L	474.01 ppb	14:35:32
1	U 409.014†	10963.5	15849.2	486.72 ug/L	486.72 ppb	14:35:12
1	V 292.402†	56651.8	65207.3	494.82 ug/L	494.82 ppb	14:35:12
1	Zn 213.857†	47492.8	52317.8	490.72 ug/L	490.72 ppb	14:35:12
1	SiO2†	144715.2	161452.4	10819 ug/L	10819 ppb	14:36:30
2	Sc 361.383	708398.2	708398.2	89.022 %		14:35:38
2	Sc Radial	3621.2	3621.2	91.1 %		14:34:39
2	Y 371.029	557923.3	557923.3	86.769 %		14:35:38
2	Y RADIAL	3769.2	3769.2	91.24 %		14:34:39
2	Ag 328.068†	37442.1	41873.5	267.60 ug/L	267.60 ppb	14:35:38
2	Al 396.153Radial†	439163.5	482319.0	499010 ug/L	499010 ppb	14:34:19
2	As 188.979†	983.9	1132.9	526.71 ug/L	526.71 ppb	14:35:58
2	B 249.677†	19944.6	22346.0	501.41 ug/L	501.41 ppb	14:35:38
2	Ba 233.527†	51159.1	57461.2	489.17 ug/L	489.17 ppb	14:35:38
2	Be 313.107†	581452.3	657391.1	247.24 ug/L	247.24 ppb	14:35:38
2	Ca 317.933Radial†	222552.3	244325.8	474450 ug/L	474450 ppb	14:34:19
2	Cd 226.502†	34756.4	39250.9	465.24 ug/L	465.24 ppb	14:35:58
2	Co 228.616†	18918.8	21330.2	446.98 ug/L	446.98 ppb	14:35:58
2	Cr 267.716†	34784.6	38376.9	478.61 ug/L	478.61 ppb	14:35:38
2	Cu 324.752†	161129.5	172679.8	546.92 ug/L	546.92 ppb	14:35:38
2	Fe 238.204 Radial†	15572.6	17086.8	187460 ug/L	187460 ppb	14:34:39
2	K 766.490 Radial†	25207.6	24468.6	5139.9 ug/L	5139.9 ppb	14:34:19
2	Mg 279.077 IEC†	11456.6	12577.3	491440 ug/L	491440 ppb	14:34:39
2	Mn 257.610†	368419.6	413299.0	478.70 ug/L	478.70 ppb	14:35:38
2	Mo 202.031†	5290.3	5921.5	479.19 ug/L	479.19 ppb	14:35:58
2	Na 589.592 Radial†	14547.1	16075.6	5638.4 ug/L	5638.4 ppb	14:34:19
2	Ni 231.604†	15195.0	16977.2	453.51 ug/L	453.51 ppb	14:35:58

2	P 214.914†	4362.3	4656.9	2420.9 ug/L	2420.9 ppb	14:35:58
2	Pb 220.353†	2429.8	2745.4	453.41 ug/L	453.41 ppb	14:35:58
2	S 181.975 Axial†	1890.7	2062.1	2582.9 ug/L	2582.9 ppb	14:35:58
2	Sb 206.836†	1448.4	1583.0	557.57 ug/L	557.57 ppb	14:35:58
2	Se 196.026†	3055.2	3458.5	2528.6 ug/L	2528.6 ppb	14:35:58
2	Si 251.611†	145921.0	163248.9	5136.3 ug/L	5136.3 ppb	14:35:38
2	Sn 189.927†	2078.0	2298.6	474.05 ug/L	474.05 ppb	14:35:58
2	Sr 421.552†	54515.9	59743.7	493.12 ug/L	493.12 ppb	14:34:19
2	Ti 334.940†	256279.4	289484.2	503.24 ug/L	503.24 ppb	14:35:38
2	Tl 190.801†	1283.3	1462.9	474.81 ug/L	474.81 ppb	14:35:58
2	U 409.014†	10840.6	15750.3	483.61 ug/L	483.61 ppb	14:35:38
2	V 292.402†	56481.1	65217.8	494.96 ug/L	494.96 ppb	14:35:38
2	Zn 213.857†	47713.5	52735.3	495.00 ug/L	495.00 ppb	14:35:38
2	SiO2†	145615.5	162980.5	10921 ug/L	10921 ppb	14:36:35
3	Sc 361.383	703305.6	703305.6	88.382 %		14:36:04
3	Sc Radial	3617.9	3617.9	91.0 %		14:35:05
3	Y 371.029	555451.1	555451.1	86.385 %		14:36:04
3	Y RADIAL	3779.8	3779.8	91.50 %		14:35:05
3	Ag 328.068†	37173.5	41874.1	267.73 ug/L	267.73 ppb	14:36:04
3	Al 396.153Radial†	446240.3	490528.7	507500 ug/L	507500 ppb	14:34:45
3	As 188.979†	962.5	1116.7	520.04 ug/L	520.04 ppb	14:36:24
3	B 249.677†	19502.0	22007.5	493.21 ug/L	493.21 ppb	14:36:04
3	Ba 233.527†	50584.0	57226.7	487.23 ug/L	487.23 ppb	14:36:04
3	Be 313.107†	574703.4	654484.6	246.15 ug/L	246.15 ppb	14:36:04
3	Ca 317.933Radial†	226210.5	248565.2	482680 ug/L	482680 ppb	14:34:45
3	Cd 226.502†	34464.0	39202.8	464.56 ug/L	464.56 ppb	14:36:24
3	Co 228.616†	18721.3	21260.6	445.50 ug/L	445.50 ppb	14:36:24
3	Cr 267.716†	34303.3	38115.2	475.39 ug/L	475.39 ppb	14:36:04
3	Cu 324.752†	159138.4	171737.6	544.03 ug/L	544.03 ppb	14:36:04
3	Fe 238.204 Radial†	15623.1	17157.7	188230 ug/L	188230 ppb	14:35:05
3	K 766.490 Radial†	25429.0	24736.6	5195.2 ug/L	5195.2 ppb	14:34:45
3	Mg 279.077 IEC†	11510.2	12647.6	494180 ug/L	494180 ppb	14:35:05
3	Mn 257.610†	364120.0	411430.9	476.50 ug/L	476.50 ppb	14:36:04
3	Mo 202.031†	5236.5	5903.7	477.96 ug/L	477.96 ppb	14:36:24
3	Na 589.592 Radial†	14766.4	16330.9	5728.0 ug/L	5728.0 ppb	14:34:45
3	Ni 231.604†	15095.9	16988.6	453.82 ug/L	453.82 ppb	14:36:24
3	P 214.914†	4372.0	4703.3	2448.3 ug/L	2448.3 ppb	14:36:24
3	Pb 220.353†	2406.6	2738.9	454.47 ug/L	454.47 ppb	14:36:24
3	S 181.975 Axial†	1881.8	2067.4	2588.2 ug/L	2588.2 ppb	14:36:24
3	Sb 206.836†	1432.7	1577.0	555.00 ug/L	555.00 ppb	14:36:24
3	Se 196.026†	3027.2	3451.6	2526.6 ug/L	2526.6 ppb	14:36:24
3	Si 251.611†	143994.5	162256.2	5105.1 ug/L	5105.1 ppb	14:36:04
3	Sn 189.927†	1998.8	2225.8	461.75 ug/L	461.75 ppb	14:36:24
3	Sr 421.552†	55361.6	60726.8	501.23 ug/L	501.23 ppb	14:34:45
3	Ti 334.940†	254013.6	289005.1	503.33 ug/L	503.33 ppb	14:36:04
3	Tl 190.801†	1254.9	1441.2	467.80 ug/L	467.80 ppb	14:36:24
3	U 409.014†	10775.3	15764.5	483.99 ug/L	483.99 ppb	14:36:04
3	V 292.402†	56172.0	65327.5	495.73 ug/L	495.73 ppb	14:36:04
3	Zn 213.857†	46997.9	52313.7	490.68 ug/L	490.68 ppb	14:36:04
3	SiO2†	143749.7	162053.9	10859 ug/L	10859 ppb	14:36:40

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	707453.7	88.904 %	0.4732			0.53%
Sc Radial	3632.5	91.4 %	0.57			0.62%
Y 371.029	558065.8	86.791 %	0.4181			0.48%
Y RADIAL	3784.8	91.62 %	0.452			0.49%
Ag 328.068†	41894.0	267.79 ug/L	0.223	267.79 ppb	0.223	0.08%
QC value within limits for Ag 328.068 Recovery = 107.11%						
Al 396.153Radial†	487547.8	504420 ug/L	4700.5	504420 ppb	4700.5	0.93%
QC value within limits for Al 396.153Radial Recovery = 100.88%						
As 188.979†	1124.8	523.41 ug/L	3.335	523.41 ppb	3.335	0.64%
QC value within limits for As 188.979 Recovery = 104.68%						
B 249.677†	22144.0	496.51 ug/L	4.327	496.51 ppb	4.327	0.87%
QC value within limits for B 249.677 Recovery = 99.30%						
Ba 233.527†	57308.9	487.91 ug/L	1.095	487.91 ppb	1.095	0.22%
QC value within limits for Ba 233.527 Recovery = 97.58%						
Be 313.107†	655704.0	246.60 ug/L	0.566	246.60 ppb	0.566	0.23%
QC value within limits for Be 313.107 Recovery = 98.64%						

Ca 317.933Radial†	247029.8	479700 ug/L	4561.3	479700 ppb	4561.3	0.95%
QC value within limits for Ca 317.933Radial Recovery = 95.94%						
Cd 226.502†	39243.6	465.09 ug/L	0.476	465.09 ppb	0.476	0.10%
QC value within limits for Cd 226.502 Recovery = 93.02%						
Co 228.616†	21289.0	446.10 ug/L	0.775	446.10 ppb	0.775	0.17%
QC value within limits for Co 228.616 Recovery = 89.22%						
Cr 267.716†	38182.4	476.21 ug/L	2.106	476.21 ppb	2.106	0.44%
QC value within limits for Cr 267.716 Recovery = 95.24%						
Cu 324.752†	172378.0	546.00 ug/L	1.714	546.00 ppb	1.714	0.31%
QC value within limits for Cu 324.752 Recovery = 109.20%						
Fe 238.204 Radial†	17133.0	187960 ug/L	439.4	187960 ppb	439.4	0.23%
QC value within limits for Fe 238.204 Radial Recovery = 93.98%						
K 766.490 Radial†	24695.3	5187.2 ug/L	43.90	5187.2 ppb	43.90	0.85%
QC value within limits for K 766.490 Radial Recovery = 103.74%						
Mg 279.077 IEC†	12620.8	493140 ug/L	1485.6	493140 ppb	1485.6	0.30%
QC value within limits for Mg 279.077 IEC Recovery = 98.63%						
Mn 257.610†	412116.9	477.31 ug/L	1.212	477.31 ppb	1.212	0.25%
QC value within limits for Mn 257.610 Recovery = 95.46%						
Mo 202.031†	5916.6	478.90 ug/L	0.839	478.90 ppb	0.839	0.18%
QC value within limits for Mo 202.031 Recovery = 95.78%						
Na 589.592 Radial†	16283.4	5711.3 ug/L	66.13	5711.3 ppb	66.13	1.16%
QC value within limits for Na 589.592 Radial Recovery = 114.23%						
Ni 231.604†	16992.8	453.93 ug/L	0.484	453.93 ppb	0.484	0.11%
QC value within limits for Ni 231.604 Recovery = 90.79%						
P 214.914†	4680.5	2434.9 ug/L	13.70	2434.9 ppb	13.70	0.56%
QC value within limits for P 214.914 Recovery = 97.39%						
Pb 220.353†	2744.6	454.51 ug/L	1.118	454.51 ppb	1.118	0.25%
QC value within limits for Pb 220.353 Recovery = 90.90%						
S 181.975 Axial†	2067.7	2589.1 ug/L	6.67	2589.1 ppb	6.67	0.26%
QC value within limits for S 181.975 Axial Recovery = 103.56%						
Sb 206.836†	1581.9	556.91 ug/L	1.686	556.91 ppb	1.686	0.30%
QC value within limits for Sb 206.836 Recovery = 111.38%						
Se 196.026†	3462.2	2532.0 ug/L	7.70	2532.0 ppb	7.70	0.30%
QC value within limits for Se 196.026 Recovery = 101.28%						
Si 251.611†	162706.2	5119.2 ug/L	15.83	5119.2 ppb	15.83	0.31%
QC value within limits for Si 251.611 Recovery = 102.38%						
Sn 189.927†	2258.6	467.40 ug/L	6.211	467.40 ppb	6.211	1.33%
QC value within limits for Sn 189.927 Recovery = 93.48%						
Sr 421.552†	60404.0	498.57 ug/L	4.720	498.57 ppb	4.720	0.95%
QC value within limits for Sr 421.552 Recovery = 99.71%						
Ti 334.940†	289004.2	503.01 ug/L	0.476	503.01 ppb	0.476	0.09%
QC value within limits for Ti 334.940 Recovery = 100.60%						
Tl 190.801†	1454.9	472.21 ug/L	3.840	472.21 ppb	3.840	0.81%
QC value within limits for Tl 190.801 Recovery = 94.44%						
U 409.014†	15788.0	484.77 ug/L	1.693	484.77 ppb	1.693	0.35%
QC value within limits for U 409.014 Recovery = 96.95%						
V 292.402†	65250.9	495.17 ug/L	0.490	495.17 ppb	0.490	0.10%
QC value within limits for V 292.402 Recovery = 99.03%						
Zn 213.857†	52455.6	492.13 ug/L	2.486	492.13 ppb	2.486	0.51%
QC value within limits for Zn 213.857 Recovery = 98.43%						
SiO2†	162162.2	10866 ug/L	51.6	10866 ppb	51.6	0.48%
QC value within limits for SiO2 Recovery = 101.60%						

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: LR1

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 15

Date Collected: 2/17/2010 14:38:51

Data Type: Reprocessed on 2/17/2010 15:41:15

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	690492.5	690492.5	86.772 %		14:42:02
1	Sc Radial	3527.1	3527.1	88.7 %		14:41:04
1	Y 371.029	548021.8	548021.8	85.229 %		14:42:02
1	Y RADIAL	3669.5	3669.5	88.83 %		14:41:04
1	Ag 328.068†	-20639.9	-23971.9	-2.9577 ug/L	-2.9577 ppb	14:42:02
1	Al 396.153Radial†	421357.8	475110.9	491570 ug/L	491570 ppb	14:40:44
1	As 188.979†	-202.2	-205.4	17.347 ug/L	17.347 ppb	14:42:22
1	B 249.677†	1430.3	1590.3	-34.392 ug/L	-34.392 ppb	14:42:02
1	Ba 233.527†	-1646.0	-1903.4	-2.3680 ug/L	-2.3680 ppb	14:42:22
1	Be 313.107†	-8980.5	-6111.0	-2.3137 ug/L	-2.3137 ppb	14:42:02
1	Ca 317.933Radial†	214070.0	241282.9	468540 ug/L	468540 ppb	14:40:44
1	Cd 226.502†	2856.3	3500.3	-0.2814 ug/L	-0.2814 ppb	14:42:22
1	Co 228.616†	184.7	291.3	-0.3727 ug/L	-0.3727 ppb	14:42:22
1	Cr 267.716†	110.8	-569.4	-3.4982 ug/L	-3.4982 ppb	14:42:22
1	Cu 324.752†	2236.0	-5742.1	-1.4898 ug/L	-1.4898 ppb	14:42:02
1	Fe 238.204 Radial†	36021.7	40593.9	445320 ug/L	445320 ppb	14:40:44
1	K 766.490 Radial†	2966.1	135.5	-329.06 ug/L	-329.06 ppb	14:40:44
1	Mg 279.077 IEC†	10934.8	12324.7	481290 ug/L	481290 ppb	14:41:04
1	Mn 257.610†	-20639.4	-24337.2	-3.9974 ug/L	-3.9974 ppb	14:42:02
1	Mo 202.031†	-460.3	-551.6	-2.6081 ug/L	-2.6081 ppb	14:42:22
1	Na 589.592 Radial†	1308048.3	1474580.8	517200 ug/L	517200 ppb	14:40:44
1	Ni 231.604†	334.8	294.3	7.8619 ug/L	7.8619 ppb	14:42:22
1	P 214.914†	576.7	421.2	-2.6345 ug/L	-2.6345 ppb	14:42:22
1	Pb 220.353†	-582.5	-655.3	-13.495 ug/L	-13.495 ppb	14:42:22
1	S 181.975 Axial†	102.1	55.9	-19.512 ug/L	-19.512 ppb	14:42:22
1	Sb 206.836†	74.0	41.3	-5.7056 ug/L	-5.7056 ppb	14:42:22
1	Se 196.026†	-2036.8	-2320.9	-16.385 ug/L	-16.385 ppb	14:42:22
1	Si 251.611†	-269.0	-975.9	-30.213 ug/L	-30.213 ppb	14:42:22
1	Sn 189.927†	-346.8	-435.3	-64.239 ug/L	-64.239 ppb	14:42:22
1	Sr 421.552†	599.2	563.8	1.1880 ug/L	1.1880 ppb	14:41:04
1	Ti 334.940†	-7271.3	-6777.4	6.5484 ug/L	6.5484 ppb	14:42:02
1	Tl 190.801†	-88.5	-80.7	-26.311 ug/L	-26.311 ppb	14:42:22
1	U 409.014†	347874.5	404478.1	12945 ug/L	12945 ppb	14:42:02
1	V 292.402†	1555.5	3564.5	-3.6161 ug/L	-3.6161 ppb	14:42:22
1	Zn 213.857†	5556.3	5541.5	-11.324 ug/L	-11.324 ppb	14:42:22
1	SiO2†	-288.4	-923.6	-60.796 ug/L	-60.796 ppb	14:43:19
2	Sc 361.383	687162.2	687162.2	86.354 %		14:42:28
2	Sc Radial	3499.3	3499.3	88.0 %		14:41:30
2	Y 371.029	545419.6	545419.6	84.824 %		14:42:28
2	Y RADIAL	3675.7	3675.7	88.98 %		14:41:30
2	Ag 328.068†	-20792.7	-24264.1	-4.0162 ug/L	-4.0162 ppb	14:42:28
2	Al 396.153Radial†	419588.5	476875.0	493400 ug/L	493400 ppb	14:41:10
2	As 188.979†	-219.3	-226.3	8.8617 ug/L	8.8617 ppb	14:42:48
2	B 249.677†	1534.4	1718.9	-31.582 ug/L	-31.582 ppb	14:42:28
2	Ba 233.527†	-1686.1	-1959.0	-2.7868 ug/L	-2.7868 ppb	14:42:48
2	Be 313.107†	-8976.8	-6157.0	-2.3326 ug/L	-2.3326 ppb	14:42:28
2	Ca 317.933Radial†	213591.9	242657.2	471200 ug/L	471200 ppb	14:41:10
2	Cd 226.502†	2845.5	3503.8	-0.3996 ug/L	-0.3996 ppb	14:42:48
2	Co 228.616†	158.9	262.5	-0.9974 ug/L	-0.9974 ppb	14:42:48
2	Cr 267.716†	62.4	-625.0	-4.1593 ug/L	-4.1593 ppb	14:42:48
2	Cu 324.752†	2442.0	-5491.1	-0.6322 ug/L	-0.6322 ppb	14:42:28
2	Fe 238.204 Radial†	35865.1	40738.6	446900 ug/L	446900 ppb	14:41:10
2	K 766.490 Radial†	3144.5	364.8	-279.75 ug/L	-279.75 ppb	14:41:10
2	Mg 279.077 IEC†	10815.7	12287.3	479830 ug/L	479830 ppb	14:41:30
2	Mn 257.610†	-19792.2	-23471.4	-2.7748 ug/L	-2.7748 ppb	14:42:28
2	Mo 202.031†	-445.5	-537.0	-1.3283 ug/L	-1.3283 ppb	14:42:48
2	Na 589.592 Radial†	1294343.0	1470726.0	515850 ug/L	515850 ppb	14:41:10
2	Ni 231.604†	320.6	279.7	7.4726 ug/L	7.4726 ppb	14:42:48

2	P 214.914†	564.7	410.6	-9.4680 ug/L	-9.4680 ppb	14:42:48
2	Pb 220.353†	-597.0	-675.3	-15.797 ug/L	-15.797 ppb	14:42:48
2	S 181.975 Axial†	92.7	45.6	-33.225 ug/L	-33.225 ppb	14:42:48
2	Sb 206.836†	60.4	25.9	-11.175 ug/L	-11.175 ppb	14:42:48
2	Se 196.026†	-2002.4	-2292.4	4.6855 ug/L	4.6855 ppb	14:42:48
2	Si 251.611†	-263.2	-970.7	-30.063 ug/L	-30.063 ppb	14:42:48
2	Sn 189.927†	-356.7	-448.8	-66.518 ug/L	-66.518 ppb	14:42:48
2	Sr 421.552†	571.3	537.5	0.9498 ug/L	0.9498 ppb	14:41:30
2	Ti 334.940†	-7637.6	-7242.3	6.2488 ug/L	6.2488 ppb	14:42:28
2	Tl 190.801†	-67.8	-57.2	-18.734 ug/L	-18.734 ppb	14:42:48
2	U 409.014†	346569.7	404910.1	12958 ug/L	12958 ppb	14:42:28
2	V 292.402†	1550.2	3567.0	-3.8126 ug/L	-3.8126 ppb	14:42:48
2	Zn 213.857†	5544.8	5559.2	-11.384 ug/L	-11.384 ppb	14:42:48
2	SiO2†	-404.0	-1059.1	-69.920 ug/L	-69.920 ppb	14:43:24
3	Sc 361.383	692098.5	692098.5	86.974 %		14:42:54
3	Sc Radial	3512.5	3512.5	88.3 %		14:41:55
3	Y 371.029	548447.1	548447.1	85.295 %		14:42:54
3	Y RADIAL	3671.9	3671.9	88.89 %		14:41:55
3	Ag 328.068†	-20810.5	-24112.8	-2.5925 ug/L	-2.5925 ppb	14:42:54
3	Al 396.153Radial†	423176.3	479144.2	495740 ug/L	495740 ppb	14:41:35
3	As 188.979†	-202.5	-205.2	18.279 ug/L	18.279 ppb	14:43:14
3	B 249.677†	1596.3	1777.4	-30.517 ug/L	-30.517 ppb	14:42:54
3	Ba 233.527†	-1608.1	-1855.4	-1.8583 ug/L	-1.8583 ppb	14:43:14
3	Be 313.107†	-9063.3	-6182.3	-2.3338 ug/L	-2.3338 ppb	14:42:54
3	Ca 317.933Radial†	215470.1	243871.0	473560 ug/L	473560 ppb	14:41:35
3	Cd 226.502†	2851.4	3487.0	-0.8307 ug/L	-0.8307 ppb	14:43:14
3	Co 228.616†	189.6	296.4	-0.3210 ug/L	-0.3210 ppb	14:43:14
3	Cr 267.716†	42.1	-648.7	-4.3858 ug/L	-4.3858 ppb	14:43:14
3	Cu 324.752†	2234.8	-5749.4	-1.2873 ug/L	-1.2873 ppb	14:42:54
3	Fe 238.204 Radial†	36163.7	40923.5	448930 ug/L	448930 ppb	14:41:35
3	K 766.490 Radial†	3032.8	224.8	-312.13 ug/L	-312.13 ppb	14:41:35
3	Mg 279.077 IEC†	10918.4	12357.5	482560 ug/L	482560 ppb	14:41:55
3	Mn 257.610†	-20264.2	-23850.6	-3.1272 ug/L	-3.1272 ppb	14:42:54
3	Mo 202.031†	-456.1	-545.6	-1.8040 ug/L	-1.8040 ppb	14:43:14
3	Na 589.592 Radial†	1307447.3	1480031.1	519110 ug/L	519110 ppb	14:41:35
3	Ni 231.604†	328.5	286.1	7.6442 ug/L	7.6442 ppb	14:43:14
3	P 214.914†	597.5	443.7	7.7853 ug/L	7.7853 ppb	14:43:14
3	Pb 220.353†	-588.0	-660.1	-13.474 ug/L	-13.474 ppb	14:43:14
3	S 181.975 Axial†	101.7	55.3	-21.176 ug/L	-21.176 ppb	14:43:14
3	Sb 206.836†	76.1	43.5	-5.0538 ug/L	-5.0538 ppb	14:43:14
3	Se 196.026†	-2031.0	-2308.7	1.2707 ug/L	1.2707 ppb	14:43:14
3	Si 251.611†	-216.7	-915.1	-28.303 ug/L	-28.303 ppb	14:43:14
3	Sn 189.927†	-341.8	-428.7	-62.684 ug/L	-62.684 ppb	14:43:14
3	Sr 421.552†	609.8	578.6	1.2738 ug/L	1.2738 ppb	14:41:55
3	Ti 334.940†	-5766.6	-5027.9	10.047 ug/L	10.047 ppb	14:42:54
3	Tl 190.801†	-79.1	-69.5	-22.692 ug/L	-22.692 ppb	14:43:14
3	U 409.014†	347032.5	402579.7	12883 ug/L	12883 ppb	14:42:54
3	V 292.402†	1426.9	3412.4	-5.4108 ug/L	-5.4108 ppb	14:43:14
3	Zn 213.857†	5519.2	5483.9	-12.439 ug/L	-12.439 ppb	14:43:14
3	SiO2†	-81.6	-685.1	-44.811 ug/L	-44.811 ppb	14:43:29

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	689917.7	86.700 %	0.3164			0.36%
Sc Radial	3512.9	88.4 %	0.35			0.40%
Y 371.029	547296.1	85.116 %	0.2549			0.30%
Y RADIAL	3672.3	88.90 %	0.075			0.08%
Ag 328.068†	-24116.3	-3.1888 ug/L	0.73943	-3.1888 ppb	0.73943	23.19%
Al 396.153Radial†	477043.4	493570 ug/L	2091.9	493570 ppb	2091.9	0.42%
QC value within limits for Al 396.153Radial Recovery = 98.71%						
As 188.979†	-212.3	14.829 ug/L	5.1891	14.829 ppb	5.1891	34.99%
B 249.677†	1695.5	-32.164 ug/L	2.0021	-32.164 ppb	2.0021	6.22%
Ba 233.527†	-1905.9	-2.3377 ug/L	0.46501	-2.3377 ppb	0.46501	19.89%
Be 313.107†	-6150.1	-2.3267 ug/L	0.01129	-2.3267 ppb	0.01129	0.49%
Ca 317.933Radial†	242603.7	471100 ug/L	2514.4	471100 ppb	2514.4	0.53%
QC value within limits for Ca 317.933Radial Recovery = 94.22%						
Cd 226.502†	3497.1	-0.5039 ug/L	0.28915	-0.5039 ppb	0.28915	57.38%
Co 228.616†	283.4	-0.5637 ug/L	0.37648	-0.5637 ppb	0.37648	66.79%
Cr 267.716†	-614.4	-4.0144 ug/L	0.46123	-4.0144 ppb	0.46123	11.49%

Cu 324.752†	-5660.9	-1.1364 ug/L	0.44823	-1.1364 ppb	0.44823	39.44%
Fe 238.204 Radial†	40752.0	447050 ug/L	1812.3	447050 ppb	1812.3	0.41%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 89.41%						
K 766.490 Radial†	241.7	-306.98 ug/L	25.055	-306.98 ppb	25.055	8.16%
Mg 279.077 IEC†	12323.2	481230 ug/L	1370.4	481230 ppb	1370.4	0.28%
QC value within limits for Mg 279.077 IEC Recovery = 96.25%						
Mn 257.610†	-23886.4	-3.2998 ug/L	0.62930	-3.2998 ppb	0.62930	19.07%
Mo 202.031†	-544.7	-1.9135 ug/L	0.64687	-1.9135 ppb	0.64687	33.81%
Na 589.592 Radial†	1475112.7	517390 ug/L	1639.8	517390 ppb	1639.8	0.32%
QC value within limits for Na 589.592 Radial Recovery = 103.48%						
Ni 231.604†	286.7	7.6596 ug/L	0.19509	7.6596 ppb	0.19509	2.55%
P 214.914†	425.2	-1.4391 ug/L	8.68856	-1.4391 ppb	8.68856	603.77%
Pb 220.353†	-663.6	-14.256 ug/L	1.3352	-14.256 ppb	1.3352	9.37%
S 181.975 Axial†	52.3	-24.638 ug/L	7.4831	-24.638 ppb	7.4831	30.37%
Sb 206.836†	36.9	-7.3114 ug/L	3.36161	-7.3114 ppb	3.36161	45.98%
Se 196.026†	-2307.3	-3.4762 ug/L	11.30883	-3.4762 ppb	11.30883	325.32%
Si 251.611†	-953.9	-29.526 ug/L	1.0623	-29.526 ppb	1.0623	3.60%
Sn 189.927†	-437.6	-64.480 ug/L	1.9286	-64.480 ppb	1.9286	2.99%
Sr 421.552†	559.9	1.1372 ug/L	0.16792	1.1372 ppb	0.16792	14.77%
Ti 334.940†	-6349.2	7.6147 ug/L	2.11161	7.6147 ppb	2.11161	27.73%
Tl 190.801†	-69.1	-22.579 ug/L	3.7897	-22.579 ppb	3.7897	16.78%
U 409.014†	403989.3	12929 ug/L	40.0	12929 ppb	40.0	0.31%
QC value less than the lower limit for U 409.014 Recovery = 86.19%						
V 292.402†	3514.7	-4.2798 ug/L	0.98437	-4.2798 ppb	0.98437	23.00%
Zn 213.857†	5528.2	-11.716 ug/L	0.6272	-11.716 ppb	0.6272	5.35%
SiO2†	-889.3	-58.509 ug/L	12.7096	-58.509 ppb	12.7096	21.72%

QC Failed. Continue with analysis.

Sequence No.: 12

Sample ID: LR2

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 2/17/2010 14:49:47

Data Type: Reprocessed on 2/17/2010 15:41:16

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	811567.7	811567.7	101.99 %		14:53:22
1	Sc Radial	3667.9	3667.9	92.3 %		14:52:05
1	Y 371.029	647976.2	647976.2	100.77 %		14:53:22
1	Y RADIAL	4136.4	4136.4	100.1 %		14:51:45
1	Ag 328.068†	-6965.8	-7015.7	3.2137 ug/L	3.2137 ppb	14:53:27
1	Al 396.153Radial†	278.5	443.8	3.5744 ug/L	3.5744 ppb	14:51:45
1	As 188.979†	22468.1	22058.0	9400.3 ug/L	9400.3 ppb	14:53:27
1	B 249.677†	205589.3	201524.9	4782.1 ug/L	4782.1 ppb	14:53:22
1	Ba 233.527†	1587899.4	1556949.4	13091 ug/L	13091 ppb	14:53:22
1	Be 313.107†	7516868.4	7374625.0	2782.8 ug/L	2782.8 ppb	14:53:16
1	Ca 317.933Radial†	28.5	6.6	12.890 ug/L	12.890 ppb	14:52:05
1	Cd 226.502†	785632.3	770531.3	9511.5 ug/L	9511.5 ppb	14:53:22
1	Co 228.616†	439897.2	431403.3	9091.2 ug/L	9091.2 ppb	14:53:27
1	Cr 267.716†	1921548.2	1883405.7	23298 ug/L	23298 ppb	14:53:22
1	Cu 324.752†	6248075.8	6118000.1	19035 ug/L	19035 ppb	14:53:16
1	Fe 238.204 Radial†	-15.2	-27.5	-29.885 ug/L	-29.885 ppb	14:52:05
1	K 766.490 Radial†	1314393.9	1421549.6	307990 ug/L	307990 ppb	14:51:40
1	Mg 279.077 IEC†	-0.4	-1.8	27.640 ug/L	27.640 ppb	14:52:05
1	Mn 257.610†	7929142.1	7774074.9	9034.2 ug/L	9034.2 ppb	14:53:16
1	Mo 202.031†	123624.9	121194.7	9394.1 ug/L	9394.1 ppb	14:53:27
1	Na 589.592 Radial†	0.9	104.6	36.697 ug/L	36.697 ppb	14:51:45
1	Ni 231.604†	356638.0	349596.6	9338.8 ug/L	9338.8 ppb	14:53:27
1	P 214.914†	32857.1	31973.4	13824 ug/L	13824 ppb	14:53:27
1	Pb 220.353†	189145.0	185475.1	23990 ug/L	23990 ppb	14:53:27
1	S 181.975 Axial†	40487.8	39637.1	51444 ug/L	51444 ppb	14:53:27
1	Sb 206.836†	30546.8	29907.6	10876 ug/L	10876 ppb	14:53:27
1	Se 196.026†	17519.6	17204.7	9909.7 ug/L	9909.7 ppb	14:53:27
1	Si 251.611†	1490105.4	1460401.7	45884 ug/L	45884 ppb	14:53:22
1	Sn 189.927†	56250.5	55118.7	10193 ug/L	10193 ppb	14:53:27
1	Sr 421.552†	1123313.9	1217521.8	10121 ug/L	10121 ppb	14:51:40
1	Ti 334.940†	5826317.1	5714381.5	9469.7 ug/L	9469.7 ppb	14:53:16
1	Tl 190.801†	30238.0	29670.1	9625.4 ug/L	9625.4 ppb	14:53:27
1	U 409.014†	-2909.7	719.9	-28.942 ug/L	-28.942 ppb	14:53:22
1	V 292.402†	1276116.1	1253020.2	9835.7 ug/L	9835.7 ppb	14:53:22
1	Zn 213.857†	1391650.0	1363669.0	13534 ug/L	13534 ppb	14:53:22
1	SiO2†	1496399.1	1466647.3	98136 ug/L	98136 ppb	14:54:15
2	Sc 361.383	811788.3	811788.3	102.02 %		14:53:42
2	Sc Radial	3939.9	3939.9	99.1 %		14:52:35
2	Y 371.029	647730.2	647730.2	100.74 %		14:53:42
2	Y RADIAL	3982.4	3982.4	96.40 %		14:52:15
2	Ag 328.068†	-6850.0	-6900.3	3.7063 ug/L	3.7063 ppb	14:53:47
2	Al 396.153Radial†	267.0	411.3	-22.902 ug/L	-22.902 ppb	14:52:15
2	As 188.979†	21981.9	21575.3	9197.9 ug/L	9197.9 ppb	14:53:47
2	B 249.677†	205070.7	200961.8	4769.1 ug/L	4769.1 ppb	14:53:42
2	Ba 233.527†	1584787.7	1553476.3	13062 ug/L	13062 ppb	14:53:42
2	Be 313.107†	7665238.0	7518061.4	2836.9 ug/L	2836.9 ppb	14:53:35
2	Ca 317.933Radial†	36.4	12.5	24.258 ug/L	24.258 ppb	14:52:35
2	Cd 226.502†	782111.4	766870.7	9466.2 ug/L	9466.2 ppb	14:53:42
2	Co 228.616†	432733.6	424264.1	8940.0 ug/L	8940.0 ppb	14:53:47
2	Cr 267.716†	1916470.9	1877916.8	23230 ug/L	23230 ppb	14:53:42
2	Cu 324.752†	6391793.7	6257214.7	19469 ug/L	19469 ppb	14:53:35
2	Fe 238.204 Radial†	-15.0	-26.1	-19.213 ug/L	-19.213 ppb	14:52:35
2	K 766.490 Radial†	1307599.6	1316327.5	285190 ug/L	285190 ppb	14:52:10
2	Mg 279.077 IEC†	-4.2	-5.6	-122.48 ug/L	-122.48 ppb	14:52:35
2	Mn 257.610†	8083499.6	7923271.0	9207.5 ug/L	9207.5 ppb	14:53:35
2	Mo 202.031†	121723.9	119298.4	9247.1 ug/L	9247.1 ppb	14:53:47
2	Na 589.592 Radial†	-13.7	89.9	31.534 ug/L	31.534 ppb	14:52:15
2	Ni 231.604†	350862.5	343840.2	9185.0 ug/L	9185.0 ppb	14:53:47

2	P 214.914†	32292.6	31411.4	13429 ug/L	13429 ppb	14:53:47
2	Pb 220.353†	186087.7	182427.8	23596 ug/L	23596 ppb	14:53:47
2	S 181.975 Axial†	39602.8	38758.8	50304 ug/L	50304 ppb	14:53:47
2	Sb 206.836†	29919.9	29284.9	10650 ug/L	10650 ppb	14:53:47
2	Se 196.026†	17130.4	16818.5	9687.5 ug/L	9687.5 ppb	14:53:47
2	Si 251.611†	1486232.7	1456208.5	45753 ug/L	45753 ppb	14:53:42
2	Sn 189.927†	55284.9	54157.2	10015 ug/L	10015 ppb	14:53:47
2	Sr 421.552†	1114701.8	1124765.2	9350.4 ug/L	9350.4 ppb	14:52:10
2	Ti 334.940†	5942899.4	5827108.9	9656.7 ug/L	9656.7 ppb	14:53:35
2	Tl 190.801†	29715.3	29149.7	9460.8 ug/L	9460.8 ppb	14:53:47
2	U 409.014†	-2696.0	930.1	-22.038 ug/L	-22.038 ppb	14:53:42
2	V 292.402†	1273268.9	1249889.3	9809.2 ug/L	9809.2 ppb	14:53:42
2	Zn 213.857†	1387632.2	1359359.8	13491 ug/L	13491 ppb	14:53:42
2	SiO2†	1483851.9	1453949.4	97288 ug/L	97288 ppb	14:54:22
3	Sc 361.383	799311.1	799311.1	100.45 %		14:54:02
3	Sc Radial	3782.0	3782.0	95.1 %		14:53:06
3	Y 371.029	638667.7	638667.7	99.327 %		14:54:02
3	Y RADIAL	4002.6	4002.6	96.89 %		14:52:46
3	Ag 328.068†	-6864.5	-7019.6	3.2372 ug/L	3.2372 ppb	14:54:07
3	Al 396.153Radial†	280.7	437.0	-4.4056 ug/L	-4.4056 ppb	14:52:46
3	As 188.979†	22050.2	21979.7	9370.9 ug/L	9370.9 ppb	14:54:07
3	B 249.677†	201763.2	200807.0	4764.9 ug/L	4764.9 ppb	14:54:02
3	Ba 233.527†	1565950.8	1558973.0	13108 ug/L	13108 ppb	14:54:02
3	Be 313.107†	7747271.7	7717020.5	2912.0 ug/L	2912.0 ppb	14:53:55
3	Ca 317.933Radial†	27.2	4.3	8.4458 ug/L	8.4458 ppb	14:53:06
3	Cd 226.502†	774274.8	771036.5	9517.7 ug/L	9517.7 ppb	14:54:02
3	Co 228.616†	433584.0	431732.2	9097.2 ug/L	9097.2 ppb	14:54:07
3	Cr 267.716†	1896563.8	1887423.4	23348 ug/L	23348 ppb	14:54:02
3	Cu 324.752†	6459324.7	6422249.9	19982 ug/L	19982 ppb	14:53:55
3	Fe 238.204 Radial†	-13.4	-25.2	-3.8730 ug/L	-3.8730 ppb	14:53:06
3	K 766.490 Radial†	1301267.6	1364747.1	295680 ug/L	295680 ppb	14:52:41
3	Mg 279.077 IEC†	-2.4	-3.8	-51.438 ug/L	-51.438 ppb	14:53:06
3	Mn 257.610†	8166361.0	8129454.2	9447.1 ug/L	9447.1 ppb	14:53:55
3	Mo 202.031†	122022.4	121458.1	9414.5 ug/L	9414.5 ppb	14:54:07
3	Na 589.592 Radial†	-18.0	84.7	29.717 ug/L	29.717 ppb	14:52:46
3	Ni 231.604†	351541.7	349885.1	9346.5 ug/L	9346.5 ppb	14:54:07
3	P 214.914†	32230.0	31843.2	13565 ug/L	13565 ppb	14:54:07
3	Pb 220.353†	186172.9	185360.0	23975 ug/L	23975 ppb	14:54:07
3	S 181.975 Axial†	39632.1	39394.0	51128 ug/L	51128 ppb	14:54:07
3	Sb 206.836†	30053.9	29876.1	10864 ug/L	10864 ppb	14:54:07
3	Se 196.026†	17232.5	17182.2	9896.9 ug/L	9896.9 ppb	14:54:07
3	Si 251.611†	1463357.4	1456176.8	45750 ug/L	45750 ppb	14:54:02
3	Sn 189.927†	55366.9	55084.8	10187 ug/L	10187 ppb	14:54:07
3	Sr 421.552†	1103002.5	1159417.6	9638.5 ug/L	9638.5 ppb	14:52:41
3	Ti 334.940†	6002299.9	5977181.0	9905.6 ug/L	9905.6 ppb	14:53:55
3	Tl 190.801†	29788.2	29677.0	9633.2 ug/L	9633.2 ppb	14:54:07
3	U 409.014†	-2835.9	749.6	-28.103 ug/L	-28.103 ppb	14:54:02
3	V 292.402†	1258012.4	1254183.8	9844.6 ug/L	9844.6 ppb	14:54:02
3	Zn 213.857†	1370821.4	1363856.9	13534 ug/L	13534 ppb	14:54:02
3	SiO2†	1483089.8	1475896.1	98756 ug/L	98756 ppb	14:54:29

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	807555.7	101.48 %	0.897			0.88%
Sc Radial	3796.6	95.5 %	3.44			3.60%
Y 371.029	644791.4	100.28 %	0.825			0.82%
Y RADIAL	4040.5	97.81 %	2.026			2.07%
Ag 328.068†	-6978.5	3.3857 ug/L	0.27784	3.3857 ppb	0.27784	8.21%
Al 396.153Radial†	430.7	-7.9111 ug/L	13.58180	-7.9111 ppb	13.58180	171.68%
As 188.979†	21871.0	9323.1 ug/L	109.36	9323.1 ppb	109.36	1.17%
QC value within limits for As 188.979 Recovery = 93.23%						
B 249.677†	201097.9	4772.0 ug/L	8.95	4772.0 ppb	8.95	0.19%
QC value within limits for B 249.677 Recovery = 95.44%						
Ba 233.527†	1556466.2	13087 ug/L	23.4	13087 ppb	23.4	0.18%
QC value less than the lower limit for Ba 233.527 Recovery = 87.25%						
Be 313.107†	7536568.9	2843.9 ug/L	64.88	2843.9 ppb	64.88	2.28%
QC value within limits for Be 313.107 Recovery = 94.80%						
Ca 317.933Radial†	7.8	15.198 ug/L	8.1549	15.198 ppb	8.1549	53.66%
Cd 226.502†	769479.5	9498.5 ug/L	28.10	9498.5 ppb	28.10	0.30%

QC value within limits for Cd 226.502 Recovery = 94.98%							
Co 228.616†	429133.2	9042.8 ug/L	89.09	9042.8 ppb	89.09	0.99%	
QC value within limits for Co 228.616 Recovery = 90.43%							
Cr 267.716†	1882915.3	23292 ug/L	59.0	23292 ppb	59.0	0.25%	
QC value within limits for Cr 267.716 Recovery = 93.17%							
Cu 324.752†	6265821.6	19495 ug/L	473.9	19495 ppb	473.9	2.43%	
QC value within limits for Cu 324.752 Recovery = 97.48%							
Fe 238.204 Radial†	-26.3	-17.657 ug/L	13.0758	-17.657 ppb	13.0758	74.05%	
K 766.490 Radial†	1367541.4	296280 ug/L	11411.0	296280 ppb	11411.0	3.85%	
QC value within limits for K 766.490 Radial Recovery = 98.76%							
Mg 279.077 IEC†	-3.8	-48.759 ug/L	75.0957	-48.759 ppb	75.0957	154.01%	
Mn 257.610†	7942266.7	9229.6 ug/L	207.38	9229.6 ppb	207.38	2.25%	
QC value within limits for Mn 257.610 Recovery = 92.30%							
Mo 202.031†	120650.4	9351.9 ug/L	91.33	9351.9 ppb	91.33	0.98%	
QC value within limits for Mo 202.031 Recovery = 93.52%							
Na 589.592 Radial†	93.1	32.649 ug/L	3.6211	32.649 ppb	3.6211	11.09%	
Ni 231.604†	347774.0	9290.1 ug/L	91.09	9290.1 ppb	91.09	0.98%	
QC value within limits for Ni 231.604 Recovery = 92.90%							
P 214.914†	31742.7	13606 ug/L	200.9	13606 ppb	200.9	1.48%	
QC value within limits for P 214.914 Recovery = 90.70%							
Pb 220.353†	184421.0	23854 ug/L	223.5	23854 ppb	223.5	0.94%	
QC value within limits for Pb 220.353 Recovery = 95.41%							
S 181.975 Axial†	39263.3	50959 ug/L	588.6	50959 ppb	588.6	1.16%	
QC value within limits for S 181.975 Axial Recovery = 101.92%							
Sb 206.836†	29689.5	10797 ug/L	126.9	10797 ppb	126.9	1.18%	
QC value within limits for Sb 206.836 Recovery = 107.97%							
Se 196.026†	17068.5	9831.4 ug/L	124.78	9831.4 ppb	124.78	1.27%	
QC value within limits for Se 196.026 Recovery = 98.31%							
Si 251.611†	1457595.7	45796 ug/L	76.1	45796 ppb	76.1	0.17%	
QC value within limits for Si 251.611 Recovery = 91.59%							
Sn 189.927†	54786.9	10132 ug/L	100.9	10132 ppb	100.9	1.00%	
QC value within limits for Sn 189.927 Recovery = 101.32%							
Sr 421.552†	1167234.9	9703.5 ug/L	389.64	9703.5 ppb	389.64	4.02%	
QC value within limits for Sr 421.552 Recovery = 97.03%							
Ti 334.940†	5839557.2	9677.4 ug/L	218.67	9677.4 ppb	218.67	2.26%	
QC value within limits for Ti 334.940 Recovery = 96.77%							
Tl 190.801†	29498.9	9573.1 ug/L	97.36	9573.1 ppb	97.36	1.02%	
QC value within limits for Tl 190.801 Recovery = 95.73%							
U 409.014†	799.9	-26.361 ug/L	3.7671	-26.361 ppb	3.7671	14.29%	
V 292.402†	1252364.4	9829.8 ug/L	18.41	9829.8 ppb	18.41	0.19%	
QC value within limits for V 292.402 Recovery = 98.30%							
Zn 213.857†	1362295.2	13520 ug/L	24.8	13520 ppb	24.8	0.18%	
QC value within limits for Zn 213.857 Recovery = 90.13%							
SiO2†	1465497.6	98060 ug/L	736.8	98060 ppb	736.8	0.75%	
QC value within limits for SiO2 Recovery = 91.65%							
QC Failed. Continue with analysis.							

Sequence No.: 13

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/17/2010 14:56:40

Data Type: Reprocessed on 2/17/2010 15:41:17

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	837284.4	837284.4	105.22 %		14:59:51
1	Sc Radial	3878.6	3878.6	97.6 %		14:58:52
1	Y 371.029	672801.0	672801.0	104.64 %		14:59:51
1	Y RADIAL	4194.1	4194.1	101.5 %		14:58:32
1	Ag 328.068†	97041.6	92042.4	475.30 ug/L	475.30 ppb	14:59:51
1	Al 396.153Radial†	4572.6	4829.1	4973.1 ug/L	4973.1 ppb	14:58:32
1	As 188.979†	1192.0	1160.6	495.72 ug/L	495.72 ppb	15:00:11
1	B 249.677†	21566.5	20438.7	485.39 ug/L	485.39 ppb	14:59:51
1	Ba 233.527†	60329.0	57330.1	482.47 ug/L	482.47 ppb	14:59:51
1	Be 313.107†	1355852.9	1292837.1	485.17 ug/L	485.17 ppb	14:59:51
1	Ca 317.933Radial†	2633.5	2675.3	5195.1 ug/L	5195.1 ppb	14:58:52
1	Cd 226.502†	40709.2	38898.6	479.70 ug/L	479.70 ppb	15:00:11
1	Co 228.616†	23775.2	22674.3	477.99 ug/L	477.99 ppb	15:00:11
1	Cr 267.716†	42142.9	39355.3	487.15 ug/L	487.15 ppb	14:59:51
1	Cu 324.752†	166444.2	149869.2	466.34 ug/L	466.34 ppb	14:59:51
1	Fe 238.204 Radial†	488.2	489.5	5383.6 ug/L	5383.6 ppb	14:58:52
1	K 766.490 Radial†	26781.1	24244.5	5246.0 ug/L	5246.0 ppb	14:58:32
1	Mg 279.077 IEC†	139.6	141.8	5541.4 ug/L	5541.4 ppb	14:58:52
1	Mn 257.610†	435311.6	413167.4	480.44 ug/L	480.44 ppb	14:59:51
1	Mo 202.031†	6555.0	6208.8	481.73 ug/L	481.73 ppb	15:00:11
1	Na 589.592 Radial†	31394.6	32285.5	11324 ug/L	11324 ppb	14:58:32
1	Ni 231.604†	19023.5	17988.3	480.52 ug/L	480.52 ppb	15:00:11
1	P 214.914†	4890.5	4404.6	2320.9 ug/L	2320.9 ppb	15:00:11
1	Pb 220.353†	3974.1	3793.0	491.93 ug/L	491.93 ppb	15:00:11
1	S 181.975 Axial†	836.1	733.0	950.38 ug/L	950.38 ppb	15:00:11
1	Sb 206.836†	1473.4	1356.4	494.59 ug/L	494.59 ppb	15:00:11
1	Se 196.026†	860.2	844.0	502.18 ug/L	502.18 ppb	15:00:11
1	Si 251.611†	79747.5	75125.9	2360.4 ug/L	2360.4 ppb	14:59:51
1	Sn 189.927†	2820.9	2645.3	489.32 ug/L	489.32 ppb	15:00:11
1	Sr 421.552†	62267.6	63717.1	529.65 ug/L	529.65 ppb	14:58:32
1	Ti 334.940†	302713.7	289300.6	479.72 ug/L	479.72 ppb	14:59:51
1	Tl 190.801†	1641.3	1581.3	512.87 ug/L	512.87 ppb	15:00:11
1	U 409.014†	10984.0	14012.0	448.49 ug/L	448.49 ppb	14:59:51
1	V 292.402†	63034.5	61679.7	484.84 ug/L	484.84 ppb	14:59:51
1	Zn 213.857†	51758.1	48328.9	478.17 ug/L	478.17 ppb	14:59:51
1	SiO2†	80400.1	75820.7	5073.4 ug/L	5073.4 ppb	15:01:11
2	Sc 361.383	839686.1	839686.1	105.52 %		15:00:18
2	Sc Radial	3954.0	3954.0	99.4 %		14:59:17
2	Y 371.029	674224.8	674224.8	104.86 %		15:00:18
2	Y RADIAL	4112.1	4112.1	99.54 %		14:58:57
2	Ag 328.068†	97442.6	92158.7	475.83 ug/L	475.83 ppb	15:00:18
2	Al 396.153Radial†	4525.0	4691.9	4831.2 ug/L	4831.2 ppb	14:58:57
2	As 188.979†	1188.9	1154.3	493.03 ug/L	493.03 ppb	15:00:39
2	B 249.677†	21652.1	20461.2	485.96 ug/L	485.96 ppb	15:00:18
2	Ba 233.527†	60525.5	57352.3	482.65 ug/L	482.65 ppb	15:00:18
2	Be 313.107†	1359793.3	1292885.5	485.19 ug/L	485.19 ppb	15:00:18
2	Ca 317.933Radial†	2600.5	2590.7	5030.7 ug/L	5030.7 ppb	14:59:17
2	Cd 226.502†	40640.1	38722.4	477.55 ug/L	477.55 ppb	15:00:39
2	Co 228.616†	23791.5	22625.1	476.95 ug/L	476.95 ppb	15:00:39
2	Cr 267.716†	42105.3	39205.1	485.28 ug/L	485.28 ppb	15:00:18
2	Cu 324.752†	166950.1	149896.1	466.41 ug/L	466.41 ppb	15:00:18
2	Fe 238.204 Radial†	479.1	470.7	5178.3 ug/L	5178.3 ppb	14:59:17
2	K 766.490 Radial†	26403.7	23341.8	5050.6 ug/L	5050.6 ppb	14:58:57
2	Mg 279.077 IEC†	136.5	135.9	5313.4 ug/L	5313.4 ppb	14:59:17
2	Mn 257.610†	436743.9	413341.5	480.63 ug/L	480.63 ppb	15:00:18
2	Mo 202.031†	6553.5	6189.5	480.22 ug/L	480.22 ppb	15:00:39
2	Na 589.592 Radial†	30915.7	31190.4	10940 ug/L	10940 ppb	14:58:57
2	Ni 231.604†	19037.3	17949.6	479.48 ug/L	479.48 ppb	15:00:39

2	P 214.914†	4873.2	4374.9	2304.7 ug/L	2304.7 ppb	15:00:39
2	Pb 220.353†	3958.7	3767.6	488.63 ug/L	488.63 ppb	15:00:39
2	S 181.975 Axial†	845.6	739.7	959.09 ug/L	959.09 ppb	15:00:39
2	Sb 206.836†	1479.1	1357.7	494.96 ug/L	494.96 ppb	15:00:39
2	Se 196.026†	867.0	848.1	503.91 ug/L	503.91 ppb	15:00:39
2	Si 251.611†	80073.7	75218.2	2363.3 ug/L	2363.3 ppb	15:00:18
2	Sn 189.927†	2800.6	2618.4	484.34 ug/L	484.34 ppb	15:00:39
2	Sr 421.552†	61381.8	61609.6	512.14 ug/L	512.14 ppb	14:58:57
2	Ti 334.940†	303728.7	289439.5	479.94 ug/L	479.94 ppb	15:00:18
2	Tl 190.801†	1646.3	1581.5	512.95 ug/L	512.95 ppb	15:00:39
2	U 409.014†	11218.4	14204.3	454.70 ug/L	454.70 ppb	15:00:18
2	V 292.402†	63218.6	61682.8	484.88 ug/L	484.88 ppb	15:00:18
2	Zn 213.857†	51925.7	48347.0	478.39 ug/L	478.39 ppb	15:00:18
2	SiO2†	79429.3	74682.2	4997.1 ug/L	4997.1 ppb	15:01:16
3	Sc 361.383	834201.5	834201.5	104.83 %		15:00:46
3	Sc Radial	3995.3	3995.3	100 %		14:59:42
3	Y 371.029	669753.9	669753.9	104.16 %		15:00:46
3	Y RADIAL	4276.1	4276.1	103.5 %		14:59:22
3	Ag 328.068†	97243.0	92575.3	477.97 ug/L	477.97 ppb	15:00:46
3	Al 396.153Radial†	4597.0	4716.4	4856.4 ug/L	4856.4 ppb	14:59:22
3	As 188.979†	1203.8	1176.0	502.23 ug/L	502.23 ppb	15:01:06
3	B 249.677†	21503.1	20454.0	485.78 ug/L	485.78 ppb	15:00:46
3	Ba 233.527†	60319.2	57532.6	484.17 ug/L	484.17 ppb	15:00:46
3	Be 313.107†	1352998.6	1294876.5	485.94 ug/L	485.94 ppb	15:00:46
3	Ca 317.933Radial†	2628.5	2591.4	5032.2 ug/L	5032.2 ppb	14:59:42
3	Cd 226.502†	40674.2	39008.1	481.08 ug/L	481.08 ppb	15:01:06
3	Co 228.616†	23796.5	22778.2	480.18 ug/L	480.18 ppb	15:01:06
3	Cr 267.716†	42029.1	39394.7	487.63 ug/L	487.63 ppb	15:00:46
3	Cu 324.752†	166553.2	150557.7	468.46 ug/L	468.46 ppb	15:00:46
3	Fe 238.204 Radial†	483.4	470.0	5170.7 ug/L	5170.7 ppb	14:59:42
3	K 766.490 Radial†	26500.6	23163.1	5012.0 ug/L	5012.0 ppb	14:59:22
3	Mg 279.077 IEC†	137.6	135.6	5299.6 ug/L	5299.6 ppb	14:59:42
3	Mn 257.610†	435595.8	414967.5	482.52 ug/L	482.52 ppb	15:00:46
3	Mo 202.031†	6551.8	6228.7	483.26 ug/L	483.26 ppb	15:01:06
3	Na 589.592 Radial†	30985.3	30937.6	10851 ug/L	10851 ppb	14:59:22
3	Ni 231.604†	19051.6	18081.9	483.02 ug/L	483.02 ppb	15:01:06
3	P 214.914†	4890.4	4421.7	2330.0 ug/L	2330.0 ppb	15:01:06
3	Pb 220.353†	3937.3	3771.8	489.18 ug/L	489.18 ppb	15:01:06
3	S 181.975 Axial†	843.9	743.3	963.80 ug/L	963.80 ppb	15:01:06
3	Sb 206.836†	1472.4	1360.5	496.07 ug/L	496.07 ppb	15:01:06
3	Se 196.026†	867.8	854.3	507.46 ug/L	507.46 ppb	15:01:06
3	Si 251.611†	79825.0	75479.9	2371.5 ug/L	2371.5 ppb	15:00:46
3	Sn 189.927†	2799.5	2634.8	487.38 ug/L	487.38 ppb	15:01:06
3	Sr 421.552†	61896.7	61482.6	511.08 ug/L	511.08 ppb	14:59:22
3	Ti 334.940†	303080.6	290713.8	482.06 ug/L	482.06 ppb	15:00:46
3	Tl 190.801†	1628.9	1575.2	510.94 ug/L	510.94 ppb	15:01:06
3	U 409.014†	11174.7	14232.5	455.60 ug/L	455.60 ppb	15:00:46
3	V 292.402†	63037.9	61904.4	486.64 ug/L	486.64 ppb	15:00:46
3	Zn 213.857†	51722.4	48476.6	479.66 ug/L	479.66 ppb	15:00:46
3	SiO2†	79629.4	75368.0	5043.0 ug/L	5043.0 ppb	15:01:22

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	837057.3	105.19 %	0.346			0.33%
Sc Radial	3942.6	99.2 %	1.49			1.50%
Y 371.029	672259.9	104.55 %	0.355			0.34%
Y RADIAL	4194.1	101.5 %	1.98			1.95%
Ag 328.068†	92258.8	476.37 ug/L	1.415	476.37 ppb	1.415	0.30%
QC value within limits for Ag 328.068 Recovery = 95.27%						
Al 396.153Radial†	4745.8	4886.9 ug/L	75.70	4886.9 ppb	75.70	1.55%
QC value within limits for Al 396.153Radial Recovery = 97.74%						
As 188.979†	1163.6	496.99 ug/L	4.733	496.99 ppb	4.733	0.95%
QC value within limits for As 188.979 Recovery = 99.40%						
B 249.677†	20451.3	485.71 ug/L	0.293	485.71 ppb	0.293	0.06%
QC value within limits for B 249.677 Recovery = 97.14%						
Ba 233.527†	57405.0	483.10 ug/L	0.933	483.10 ppb	0.933	0.19%
QC value within limits for Ba 233.527 Recovery = 96.62%						
Be 313.107†	1293533.0	485.43 ug/L	0.439	485.43 ppb	0.439	0.09%
QC value within limits for Be 313.107 Recovery = 97.09%						

Ca 317.933Radial†	2619.1	5086.0 ug/L	94.48	5086.0 ppb	94.48	1.86%
QC value within limits for Ca 317.933Radial Recovery = 101.72%						
Cd 226.502†	38876.4	479.44 ug/L	1.778	479.44 ppb	1.778	0.37%
QC value within limits for Cd 226.502 Recovery = 95.89%						
Co 228.616†	22692.5	478.37 ug/L	1.648	478.37 ppb	1.648	0.34%
QC value within limits for Co 228.616 Recovery = 95.67%						
Cr 267.716†	39318.4	486.69 ug/L	1.239	486.69 ppb	1.239	0.25%
QC value within limits for Cr 267.716 Recovery = 97.34%						
Cu 324.752†	150107.7	467.07 ug/L	1.208	467.07 ppb	1.208	0.26%
QC value within limits for Cu 324.752 Recovery = 93.41%						
Fe 238.204 Radial†	476.7	5244.2 ug/L	120.80	5244.2 ppb	120.80	2.30%
QC value within limits for Fe 238.204 Radial Recovery = 104.88%						
K 766.490 Radial†	23583.1	5102.9 ug/L	125.48	5102.9 ppb	125.48	2.46%
QC value within limits for K 766.490 Radial Recovery = 102.06%						
Mg 279.077 IEC†	137.8	5384.8 ug/L	135.81	5384.8 ppb	135.81	2.52%
QC value within limits for Mg 279.077 IEC Recovery = 107.70%						
Mn 257.610†	413825.5	481.20 ug/L	1.150	481.20 ppb	1.150	0.24%
QC value within limits for Mn 257.610 Recovery = 96.24%						
Mo 202.031†	6209.0	481.74 ug/L	1.519	481.74 ppb	1.519	0.32%
QC value within limits for Mo 202.031 Recovery = 96.35%						
Na 589.592 Radial†	31471.1	11038 ug/L	251.3	11038 ppb	251.3	2.28%
QC value greater than the upper limit for Na 589.592 Radial Recovery = 110.38%						
Ni 231.604†	18006.6	481.01 ug/L	1.817	481.01 ppb	1.817	0.38%
QC value within limits for Ni 231.604 Recovery = 96.20%						
P 214.914†	4400.4	2318.5 ug/L	12.80	2318.5 ppb	12.80	0.55%
QC value within limits for P 214.914 Recovery = 92.74%						
Pb 220.353†	3777.4	489.91 ug/L	1.768	489.91 ppb	1.768	0.36%
QC value within limits for Pb 220.353 Recovery = 97.98%						
S 181.975 Axial†	738.7	957.76 ug/L	6.808	957.76 ppb	6.808	0.71%
QC value within limits for S 181.975 Axial Recovery = 95.78%						
Sb 206.836†	1358.2	495.21 ug/L	0.768	495.21 ppb	0.768	0.16%
QC value within limits for Sb 206.836 Recovery = 99.04%						
Se 196.026†	848.8	504.52 ug/L	2.689	504.52 ppb	2.689	0.53%
QC value within limits for Se 196.026 Recovery = 100.90%						
Si 251.611†	75274.6	2365.1 ug/L	5.77	2365.1 ppb	5.77	0.24%
QC value within limits for Si 251.611 Recovery = 94.60%						
Sn 189.927†	2632.8	487.02 ug/L	2.510	487.02 ppb	2.510	0.52%
QC value within limits for Sn 189.927 Recovery = 97.40%						
Sr 421.552†	62269.8	517.62 ug/L	10.433	517.62 ppb	10.433	2.02%
QC value within limits for Sr 421.552 Recovery = 103.52%						
Ti 334.940†	289818.0	480.57 ug/L	1.290	480.57 ppb	1.290	0.27%
QC value within limits for Ti 334.940 Recovery = 96.11%						
Tl 190.801†	1579.3	512.25 ug/L	1.141	512.25 ppb	1.141	0.22%
QC value within limits for Tl 190.801 Recovery = 102.45%						
U 409.014†	14149.6	452.93 ug/L	3.869	452.93 ppb	3.869	0.85%
QC value within limits for U 409.014 Recovery = 90.59%						
V 292.402†	61755.6	485.45 ug/L	1.029	485.45 ppb	1.029	0.21%
QC value within limits for V 292.402 Recovery = 97.09%						
Zn 213.857†	48384.1	478.74 ug/L	0.804	478.74 ppb	0.804	0.17%
QC value within limits for Zn 213.857 Recovery = 95.75%						
SiO2†	75290.3	5037.8 ug/L	38.43	5037.8 ppb	38.43	0.76%
QC value within limits for SiO2 Recovery = 94.21%						
QC Failed. Continue with analysis.						

Sequence No.: 14

Sample ID: CCB

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/17/2010 15:03:32

Data Type: Reprocessed on 2/17/2010 15:41:18

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	827660.5	827660.5	104.01 %		15:06:41
1	Sc Radial	3964.1	3964.1	99.7 %		15:05:44
1	Y 371.029	672786.2	672786.2	104.63 %		15:06:41
1	Y RADIAL	4267.4	4267.4	103.3 %		15:05:24
1	Ag 328.068†	220.7	26.6	0.1390 ug/L	0.1390 ppb	15:06:41
1	Al 396.153Radial†	-144.8	-3.4	-3.5573 ug/L	-3.5573 ppb	15:05:24
1	As 188.979†	-22.0	6.5	2.7609 ug/L	2.7609 ppb	15:07:01
1	B 249.677†	472.1	395.8	9.4404 ug/L	9.4404 ppb	15:06:41
1	Ba 233.527†	32.7	25.1	0.2118 ug/L	0.2118 ppb	15:07:01
1	Be 313.107†	-4076.3	319.2	0.1200 ug/L	0.1200 ppb	15:06:41
1	Ca 317.933Radial†	22.9	-1.3	-2.4684 ug/L	-2.4684 ppb	15:05:44
1	Cd 226.502†	-140.5	73.5	0.9064 ug/L	0.9064 ppb	15:07:01
1	Co 228.616†	-59.6	21.2	0.4479 ug/L	0.4479 ppb	15:07:01
1	Cr 267.716†	1043.4	306.0	3.7820 ug/L	3.7820 ppb	15:06:41
1	Cu 324.752†	8389.9	-252.5	-0.7873 ug/L	-0.7873 ppb	15:06:41
1	Fe 238.204 Radial†	12.1	1.1	12.099 ug/L	12.099 ppb	15:05:44
1	K 766.490 Radial†	3613.5	416.2	90.168 ug/L	90.168 ppb	15:05:24
1	Mg 279.077 IEC†	1.7	0.3	12.585 ug/L	12.585 ppb	15:05:44
1	Mn 257.610†	583.6	9.6	0.0119 ug/L	0.0119 ppb	15:07:01
1	Mo 202.031†	45.3	22.4	1.7405 ug/L	1.7405 ppb	15:07:01
1	Na 589.592 Radial†	-12.7	90.9	31.893 ug/L	31.893 ppb	15:05:24
1	Ni 231.604†	98.2	2.9	0.0764 ug/L	0.0764 ppb	15:07:01
1	P 214.914†	240.9	-11.7	-6.2681 ug/L	-6.2681 ppb	15:07:01
1	Pb 220.353†	-8.1	8.2	1.0567 ug/L	1.0567 ppb	15:07:01
1	S 181.975 Axial†	62.3	-1.8	-2.3670 ug/L	-2.3670 ppb	15:07:01
1	Sb 206.836†	50.2	4.3	1.5819 ug/L	1.5819 ppb	15:07:01
1	Se 196.026†	-20.6	6.7	3.8820 ug/L	3.8820 ppb	15:07:01
1	Si 251.611†	668.0	-23.7	-0.7672 ug/L	-0.7672 ppb	15:07:01
1	Sn 189.927†	49.5	11.9	2.1929 ug/L	2.1929 ppb	15:07:01
1	Sr 421.552†	2.6	-109.1	-0.9067 ug/L	-0.9067 ppb	15:05:24
1	Ti 334.940†	-1538.4	123.2	0.1999 ug/L	0.1999 ppb	15:06:41
1	Tl 190.801†	22.0	42.5	13.707 ug/L	13.707 ppb	15:07:01
1	U 409.014†	-3588.5	122.7	3.9338 ug/L	3.9338 ppb	15:06:41
1	V 292.402†	-1775.9	64.4	0.5288 ug/L	0.5288 ppb	15:06:41
1	Zn 213.857†	971.2	71.8	0.7163 ug/L	0.7163 ppb	15:07:01
1	SiO2†	737.9	118.2	7.8803 ug/L	7.8803 ppb	15:07:57
2	Sc 361.383	824853.0	824853.0	103.66 %		15:07:06
2	Sc Radial	3968.0	3968.0	99.8 %		15:06:09
2	Y 371.029	670585.4	670585.4	104.29 %		15:07:06
2	Y RADIAL	4256.1	4256.1	103.0 %		15:05:49
2	Ag 328.068†	207.0	14.1	0.0741 ug/L	0.0741 ppb	15:07:06
2	Al 396.153Radial†	-139.7	1.9	1.9278 ug/L	1.9278 ppb	15:05:49
2	As 188.979†	-13.5	14.6	6.2063 ug/L	6.2063 ppb	15:07:27
2	B 249.677†	489.5	414.2	9.8793 ug/L	9.8793 ppb	15:07:06
2	Ba 233.527†	23.0	15.8	0.1339 ug/L	0.1339 ppb	15:07:27
2	Be 313.107†	-3908.8	467.5	0.1767 ug/L	0.1767 ppb	15:07:06
2	Ca 317.933Radial†	26.2	2.0	3.8417 ug/L	3.8417 ppb	15:06:09
2	Cd 226.502†	-161.0	53.3	0.6575 ug/L	0.6575 ppb	15:07:27
2	Co 228.616†	-80.6	0.7	0.0119 ug/L	0.0119 ppb	15:07:27
2	Cr 267.716†	1010.3	277.5	3.4303 ug/L	3.4303 ppb	15:07:06
2	Cu 324.752†	8286.2	-325.0	-1.0131 ug/L	-1.0131 ppb	15:07:06
2	Fe 238.204 Radial†	11.9	0.9	10.048 ug/L	10.048 ppb	15:06:09
2	K 766.490 Radial†	3364.3	162.9	35.283 ug/L	35.283 ppb	15:05:49
2	Mg 279.077 IEC†	3.5	2.1	83.436 ug/L	83.436 ppb	15:06:09
2	Mn 257.610†	590.5	18.2	0.0188 ug/L	0.0188 ppb	15:07:27
2	Mo 202.031†	27.1	5.0	0.3880 ug/L	0.3880 ppb	15:07:27
2	Na 589.592 Radial†	-31.7	72.0	25.239 ug/L	25.239 ppb	15:05:49
2	Ni 231.604†	100.9	5.8	0.1545 ug/L	0.1545 ppb	15:07:27

2	P 214.914†	252.7	0.5	0.4793 ug/L	0.4793 ppb	15:07:27
2	Pb 220.353†	-11.3	5.0	0.6535 ug/L	0.6535 ppb	15:07:27
2	S 181.975 Axial†	65.1	1.1	1.4147 ug/L	1.4147 ppb	15:07:27
2	Sb 206.836†	56.9	10.9	3.8894 ug/L	3.8894 ppb	15:07:27
2	Se 196.026†	-19.5	7.6	4.4119 ug/L	4.4119 ppb	15:07:27
2	Si 251.611†	672.0	-17.6	-0.5598 ug/L	-0.5598 ppb	15:07:27
2	Sn 189.927†	57.3	19.6	3.6239 ug/L	3.6239 ppb	15:07:27
2	Sr 421.552†	40.2	-71.4	-0.5934 ug/L	-0.5934 ppb	15:05:49
2	Ti 334.940†	-1197.0	447.6	0.7330 ug/L	0.7330 ppb	15:07:06
2	Tl 190.801†	20.6	41.2	13.278 ug/L	13.278 ppb	15:07:27
2	U 409.014†	-3572.8	126.1	4.0434 ug/L	4.0434 ppb	15:07:06
2	V 292.402†	-1770.8	63.5	0.5041 ug/L	0.5041 ppb	15:07:06
2	Zn 213.857†	982.4	85.9	0.8565 ug/L	0.8565 ppb	15:07:27
2	SiO2†	697.7	81.8	5.4754 ug/L	5.4754 ppb	15:08:02
3	Sc 361.383	823784.5	823784.5	103.52 %		15:07:32
3	Sc Radial	3975.6	3975.6	100.0 %		15:06:34
3	Y 371.029	668191.5	668191.5	103.92 %		15:07:32
3	Y RADIAL	4275.1	4275.1	103.5 %		15:06:14
3	Ag 328.068†	249.9	55.8	0.2882 ug/L	0.2882 ppb	15:07:32
3	Al 396.153Radial†	-157.0	-15.1	-15.675 ug/L	-15.675 ppb	15:06:14
3	As 188.979†	-10.6	17.5	7.3906 ug/L	7.3906 ppb	15:07:52
3	B 249.677†	435.6	362.8	8.6561 ug/L	8.6561 ppb	15:07:32
3	Ba 233.527†	27.6	20.3	0.1728 ug/L	0.1728 ppb	15:07:52
3	Be 313.107†	-4032.7	342.9	0.1287 ug/L	0.1287 ppb	15:07:32
3	Ca 317.933Radial†	23.1	-1.1	-2.1515 ug/L	-2.1515 ppb	15:06:34
3	Cd 226.502†	-162.5	51.7	0.6384 ug/L	0.6384 ppb	15:07:52
3	Co 228.616†	-89.5	-8.0	-0.1668 ug/L	-0.1668 ppb	15:07:52
3	Cr 267.716†	1008.6	277.1	3.4267 ug/L	3.4267 ppb	15:07:32
3	Cu 324.752†	8413.9	-191.3	-0.5968 ug/L	-0.5968 ppb	15:07:32
3	Fe 238.204 Radial†	10.7	-0.4	-4.0990 ug/L	-4.0990 ppb	15:06:34
3	K 766.490 Radial†	3471.7	263.9	57.156 ug/L	57.156 ppb	15:06:14
3	Mg 279.077 IEC†	4.2	2.8	109.44 ug/L	109.44 ppb	15:06:34
3	Mn 257.610†	596.0	24.3	0.0234 ug/L	0.0234 ppb	15:07:52
3	Mo 202.031†	45.0	22.3	1.7297 ug/L	1.7297 ppb	15:07:52
3	Na 589.592 Radial†	-18.7	85.0	29.807 ug/L	29.807 ppb	15:06:14
3	Ni 231.604†	89.1	-5.5	-0.1472 ug/L	-0.1472 ppb	15:07:52
3	P 214.914†	239.1	-12.4	-6.6288 ug/L	-6.6288 ppb	15:07:52
3	Pb 220.353†	3.9	19.7	2.5475 ug/L	2.5475 ppb	15:07:52
3	S 181.975 Axial†	62.5	-1.3	-1.6686 ug/L	-1.6686 ppb	15:07:52
3	Sb 206.836†	59.0	13.0	4.6468 ug/L	4.6468 ppb	15:07:52
3	Se 196.026†	-19.5	7.6	4.3554 ug/L	4.3554 ppb	15:07:52
3	Si 251.611†	687.8	-1.5	-0.0694 ug/L	-0.0694 ppb	15:07:52
3	Sn 189.927†	47.9	10.6	1.9527 ug/L	1.9527 ppb	15:07:52
3	Sr 421.552†	60.9	-50.8	-0.4223 ug/L	-0.4223 ppb	15:06:14
3	Ti 334.940†	-1568.1	87.6	0.1338 ug/L	0.1338 ppb	15:07:32
3	Tl 190.801†	15.8	36.6	11.787 ug/L	11.787 ppb	15:07:52
3	U 409.014†	-3623.0	73.1	2.3428 ug/L	2.3428 ppb	15:07:32
3	V 292.402†	-1660.7	167.7	1.3310 ug/L	1.3310 ppb	15:07:32
3	Zn 213.857†	996.5	100.7	1.0080 ug/L	1.0080 ppb	15:07:52
3	SiO2†	696.3	81.3	5.4075 ug/L	5.4075 ppb	15:08:07

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	825432.7	103.73 %		0.252			0.24%
Sc Radial	3969.2	99.8 %		0.15			0.15%
Y 371.029	670521.0	104.28 %		0.357			0.34%
Y RADIAL	4266.2	103.3 %		0.23			0.22%
Ag 328.068†	32.2	0.1671 ug/L		0.10977	0.1671 ppb	0.10977	65.70%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-5.5	-5.7683 ug/L		9.00744	-5.7683 ppb	9.00744	156.16%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	12.9	5.4526 ug/L		2.40513	5.4526 ppb	2.40513	44.11%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	390.9	9.3253 ug/L		0.61964	9.3253 ppb	0.61964	6.64%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	20.4	0.1728 ug/L		0.03893	0.1728 ppb	0.03893	22.52%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	376.5	0.1418 ug/L		0.03055	0.1418 ppb	0.03055	21.54%
QC value within limits for Be 313.107 Recovery = Not calculated							

Ca 317.933 Radial†	-0.1	-0.2594 ug/L	3.55522	-0.2594 ppb	3.55522	>999.9%
QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	59.5	0.7341 ug/L	0.14951	0.7341 ppb	0.14951	20.37%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	4.6	0.0977 ug/L	0.31621	0.0977 ppb	0.31621	323.81%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	286.9	3.5463 ug/L	0.20412	3.5463 ppb	0.20412	5.76%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-256.3	-0.7991 ug/L	0.20836	-0.7991 ppb	0.20836	26.08%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.5	6.0158 ug/L	8.81944	6.0158 ppb	8.81944	146.60%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	281.0	60.869 ug/L	27.6307	60.869 ppb	27.6307	45.39%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.8	68.487 ug/L	50.1279	68.487 ppb	50.1279	73.19%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	17.4	0.0180 ug/L	0.00579	0.0180 ppb	0.00579	32.13%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	16.6	1.2861 ug/L	0.77774	1.2861 ppb	0.77774	60.47%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	82.6	28.980 ug/L	3.4031	28.980 ppb	3.4031	11.74%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	1.0	0.0279 ug/L	0.15660	0.0279 ppb	0.15660	560.60%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-7.9	-4.1392 ug/L	4.00382	-4.1392 ppb	4.00382	96.73%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	11.0	1.4192 ug/L	0.99771	1.4192 ppb	0.99771	70.30%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-0.7	-0.8737 ug/L	2.01226	-0.8737 ppb	2.01226	230.33%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	9.4	3.3727 ug/L	1.59646	3.3727 ppb	1.59646	47.33%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	7.3	4.2164 ug/L	0.29099	4.2164 ppb	0.29099	6.90%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-14.3	-0.4655 ug/L	0.35832	-0.4655 ppb	0.35832	76.98%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	14.0	2.5898 ug/L	0.90352	2.5898 ppb	0.90352	34.89%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-77.1	-0.6408 ug/L	0.24566	-0.6408 ppb	0.24566	38.33%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	219.5	0.3556 ug/L	0.32855	0.3556 ppb	0.32855	92.40%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	40.1	12.924 ug/L	1.0079	12.924 ppb	1.0079	7.80%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	107.3	3.4400 ug/L	0.95176	3.4400 ppb	0.95176	27.67%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	98.5	0.7880 ug/L	0.47044	0.7880 ppb	0.47044	59.70%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	86.1	0.8603 ug/L	0.14587	0.8603 ppb	0.14587	16.96%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	93.8	6.2544 ug/L	1.40847	6.2544 ppb	1.40847	22.52%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 15

Sample ID: LR1

Analyst: HSC

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 36

Date Collected: 2/17/2010 15:11:42

Data Type: Reprocessed on 2/17/2010 15:41:19

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	814468.7	814468.7	102.35 %		15:14:52
1	Sc Radial	3889.7	3889.7	97.8 %		15:13:55
1	Y 371.029	658766.2	658766.2	102.45 %		15:14:52
1	Y RADIAL	4203.9	4203.9	101.8 %		15:13:35
1	Ag 328.068†	-20956.6	-20660.7	2.5235 ug/L	2.5235 ppb	15:14:52
1	Al 396.153Radial†	-154.1	-15.6	-14.953 ug/L	-14.953 ppb	15:13:35
1	As 188.979†	-209.7	-177.2	13.764 ug/L	13.764 ppb	15:15:12
1	B 249.677†	1752.0	1653.7	-22.090 ug/L	-22.090 ppb	15:14:52
1	Ba 233.527†	-1779.7	-1745.3	-3.0542 ug/L	-3.0542 ppb	15:14:52
1	Be 313.107†	-8214.8	-3787.6	-1.4081 ug/L	-1.4081 ppb	15:14:52
1	Ca 317.933Radial†	3.5	-20.7	-40.224 ug/L	-40.224 ppb	15:13:55
1	Cd 226.502†	2512.9	2663.8	-4.3360 ug/L	-4.3360 ppb	15:14:52
1	Co 228.616†	716.2	778.2	10.860 ug/L	10.860 ppb	15:15:12
1	Cr 267.716†	132.8	-567.5	-3.5080 ug/L	-3.5080 ppb	15:14:52
1	Cu 324.752†	2617.6	-5761.5	-3.3284 ug/L	-3.3284 ppb	15:14:52
1	Fe 238.204 Radial†	33784.2	34520.8	378690 ug/L	378690 ppb	15:13:35
1	K 766.490 Radial†	2995.8	-145.9	-31.512 ug/L	-31.512 ppb	15:13:35
1	Mg 279.077 IEC†	11.0	9.9	-9.1870 ug/L	-9.1870 ppb	15:13:55
1	Mn 257.610†	-30693.6	-30539.7	1.8964 ug/L	1.8964 ppb	15:14:52
1	Mo 202.031†	-313.8	-327.7	3.9964 ug/L	3.9964 ppb	15:14:52
1	Na 589.592 Radial†	-368.8	-273.3	-95.849 ug/L	-95.849 ppb	15:13:35
1	Ni 231.604†	289.1	190.8	5.0907 ug/L	5.0907 ppb	15:15:12
1	P 214.914†	758.5	497.8	-28.925 ug/L	-28.925 ppb	15:15:12
1	Pb 220.353†	228.3	239.0	-5.3382 ug/L	-5.3382 ppb	15:15:12
1	S 181.975 Axial†	66.6	3.4	4.3640 ug/L	4.3640 ppb	15:15:12
1	Sb 206.836†	27.0	-17.6	-10.937 ug/L	-10.937 ppb	15:15:12
1	Se 196.026†	-1728.0	-1661.8	184.52 ug/L	184.52 ppb	15:15:12
1	Si 251.611†	-531.4	-1185.1	-37.016 ug/L	-37.016 ppb	15:14:52
1	Sn 189.927†	4.8	-31.0	-52.446 ug/L	-52.446 ppb	15:15:12
1	Sr 421.552†	137.0	28.4	0.2365 ug/L	0.2365 ppb	15:13:35
1	Ti 334.940†	1105.6	2682.5	0.0945 ug/L	0.0945 ppb	15:14:52
1	Tl 190.801†	-28.3	-6.3	-2.3123 ug/L	-2.3123 ppb	15:15:12
1	U 409.014†	309749.9	306204.9	9794.9 ug/L	9794.9 ppb	15:14:52
1	V 292.402†	2654.6	4365.5	-2.8094 ug/L	-2.8094 ppb	15:14:52
1	Zn 213.857†	4199.1	3240.7	-24.314 ug/L	-24.314 ppb	15:15:12
1	SiO2†	-507.5	-1087.1	-72.240 ug/L	-72.240 ppb	15:16:10
2	Sc 361.383	818770.7	818770.7	102.89 %		15:15:18
2	Sc Radial	3881.5	3881.5	97.6 %		15:14:20
2	Y 371.029	662015.2	662015.2	102.96 %		15:15:18
2	Y RADIAL	4289.5	4289.5	103.8 %		15:14:00
2	Ag 328.068†	-20887.6	-20486.0	5.5604 ug/L	5.5604 ppb	15:15:18
2	Al 396.153Radial†	-163.7	-25.8	-25.533 ug/L	-25.533 ppb	15:14:00
2	As 188.979†	-206.9	-173.4	16.981 ug/L	16.981 ppb	15:15:38
2	B 249.677†	1831.2	1721.7	-21.582 ug/L	-21.582 ppb	15:15:18
2	Ba 233.527†	-1864.5	-1818.5	-3.4600 ug/L	-3.4600 ppb	15:15:18
2	Be 313.107†	-8206.1	-3737.0	-1.3895 ug/L	-1.3895 ppb	15:15:18
2	Ca 317.933Radial†	5.5	-18.7	-36.257 ug/L	-36.257 ppb	15:14:20
2	Cd 226.502†	2517.6	2655.4	-5.1563 ug/L	-5.1563 ppb	15:15:18
2	Co 228.616†	740.5	798.1	11.185 ug/L	11.185 ppb	15:15:38
2	Cr 267.716†	44.2	-654.2	-4.4305 ug/L	-4.4305 ppb	15:15:18
2	Cu 324.752†	2551.5	-5839.2	-3.1846 ug/L	-3.1846 ppb	15:15:18
2	Fe 238.204 Radial†	34322.3	35145.6	385550 ug/L	385550 ppb	15:14:00
2	K 766.490 Radial†	3100.6	-32.0	-6.8451 ug/L	-6.8451 ppb	15:14:00
2	Mg 279.077 IEC†	11.9	10.8	19.483 ug/L	19.483 ppb	15:14:20
2	Mn 257.610†	-31141.4	-30817.3	2.2492 ug/L	2.2492 ppb	15:15:18
2	Mo 202.031†	-299.3	-312.0	5.7435 ug/L	5.7435 ppb	15:15:18
2	Na 589.592 Radial†	-341.3	-245.9	-86.258 ug/L	-86.258 ppb	15:14:00
2	Ni 231.604†	230.2	132.2	3.5231 ug/L	3.5231 ppb	15:15:38

2	P 214.914†	731.1	467.2	-51.129 ug/L	-51.129 ppb	15:15:38
2	Pb 220.353†	229.9	239.4	-5.9398 ug/L	-5.9398 ppb	15:15:38
2	S 181.975 Axial†	61.1	-2.3	-2.9258 ug/L	-2.9258 ppb	15:15:38
2	Sb 206.836†	44.1	-1.2	-5.1995 ug/L	-5.1995 ppb	15:15:38
2	Se 196.026†	-1723.3	-1648.3	212.89 ug/L	212.89 ppb	15:15:38
2	Si 251.611†	-593.9	-1243.1	-38.858 ug/L	-38.858 ppb	15:15:18
2	Sn 189.927†	4.3	-31.5	-53.388 ug/L	-53.388 ppb	15:15:38
2	Sr 421.552†	147.7	39.6	0.3297 ug/L	0.3297 ppb	15:14:00
2	Ti 334.940†	1025.6	2599.1	-0.0277 ug/L	-0.0277 ppb	15:15:18
2	Tl 190.801†	-1.2	20.2	6.2267 ug/L	6.2267 ppb	15:15:38
2	U 409.014†	310065.2	304921.2	9752.9 ug/L	9752.9 ppb	15:15:18
2	V 292.402†	2688.7	4385.0	-3.7172 ug/L	-3.7172 ppb	15:15:18
2	Zn 213.857†	4212.9	3232.6	-25.411 ug/L	-25.411 ppb	15:15:38
2	SiO2†	-478.4	-1056.3	-70.201 ug/L	-70.201 ppb	15:16:15
3	Sc 361.383	820967.0	820967.0	103.17 %		15:15:44
3	Sc Radial	3904.9	3904.9	98.2 %		15:14:45
3	Y 371.029	663206.0	663206.0	103.14 %		15:15:44
3	Y RADIAL	4173.7	4173.7	101.0 %		15:14:25
3	Ag 328.068†	-21097.7	-20635.4	0.8184 ug/L	0.8184 ppb	15:15:44
3	Al 396.153Radial†	-163.5	-24.6	-24.221 ug/L	-24.221 ppb	15:14:25
3	As 188.979†	-205.1	-171.2	14.897 ug/L	14.897 ppb	15:16:04
3	B 249.677†	1815.4	1701.6	-19.957 ug/L	-19.957 ppb	15:15:44
3	Ba 233.527†	-1845.6	-1795.4	-3.6594 ug/L	-3.6594 ppb	15:15:44
3	Be 313.107†	-8207.9	-3717.4	-1.3822 ug/L	-1.3822 ppb	15:15:44
3	Ca 317.933Radial†	3.0	-21.2	-41.262 ug/L	-41.262 ppb	15:14:45
3	Cd 226.502†	2569.4	2699.1	-3.2796 ug/L	-3.2796 ppb	15:15:44
3	Co 228.616†	717.6	774.1	10.861 ug/L	10.861 ppb	15:16:04
3	Cr 267.716†	57.1	-641.8	-4.5264 ug/L	-4.5264 ppb	15:15:44
3	Cu 324.752†	2513.6	-5882.5	-4.0017 ug/L	-4.0017 ppb	15:15:44
3	Fe 238.204 Radial†	33369.2	33964.6	372590 ug/L	372590 ppb	15:14:25
3	K 766.490 Radial†	3167.3	16.8	3.7327 ug/L	3.7327 ppb	15:14:25
3	Mg 279.077 IEC†	10.9	9.8	-7.4518 ug/L	-7.4518 ppb	15:14:45
3	Mn 257.610†	-30972.1	-30572.3	1.2561 ug/L	1.2561 ppb	15:15:44
3	Mo 202.031†	-324.4	-335.5	2.9184 ug/L	2.9184 ppb	15:15:44
3	Na 589.592 Radial†	-297.9	-199.7	-70.030 ug/L	-70.030 ppb	15:14:25
3	Ni 231.604†	247.9	148.7	3.9642 ug/L	3.9642 ppb	15:16:04
3	P 214.914†	731.1	465.3	-41.721 ug/L	-41.721 ppb	15:16:04
3	Pb 220.353†	239.4	248.0	-3.5993 ug/L	-3.5993 ppb	15:16:04
3	S 181.975 Axial†	73.0	9.1	11.840 ug/L	11.840 ppb	15:16:04
3	Sb 206.836†	33.2	-11.8	-8.8608 ug/L	-8.8608 ppb	15:16:04
3	Se 196.026†	-1729.9	-1650.3	172.78 ug/L	172.78 ppb	15:16:04
3	Si 251.611†	-541.6	-1190.9	-37.191 ug/L	-37.191 ppb	15:15:44
3	Sn 189.927†	0.8	-34.9	-52.429 ug/L	-52.429 ppb	15:16:04
3	Sr 421.552†	103.9	-5.9	-0.0483 ug/L	-0.0483 ppb	15:14:25
3	Ti 334.940†	1001.9	2573.5	-0.0651 ug/L	-0.0651 ppb	15:15:44
3	Tl 190.801†	-5.5	16.0	4.8937 ug/L	4.8937 ppb	15:16:04
3	U 409.014†	310707.5	304737.6	9748.5 ug/L	9748.5 ppb	15:15:44
3	V 292.402†	2746.5	4434.0	-1.4876 ug/L	-1.4876 ppb	15:15:44
3	Zn 213.857†	4193.5	3202.8	-23.772 ug/L	-23.772 ppb	15:16:04
3	SiO2†	-498.9	-1074.9	-71.400 ug/L	-71.400 ppb	15:16:20

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	818068.8	102.80 %	0.415			0.40%
Sc Radial	3892.0	97.9 %	0.30			0.30%
Y 371.029	661329.1	102.85 %	0.357			0.35%
Y RADIAL	4222.4	102.2 %	1.45			1.42%
Ag 328.068†	-20594.0	2.9674 ug/L	2.40194	2.9674 ppb	2.40194	80.94%
Al 396.153Radial†	-22.0	-21.569 ug/L	5.7670	-21.569 ppb	5.7670	26.74%
As 188.979†	-173.9	15.214 ug/L	1.6320	15.214 ppb	1.6320	10.73%
B 249.677†	1692.3	-21.210 ug/L	1.1138	-21.210 ppb	1.1138	5.25%
Ba 233.527†	-1786.4	-3.3912 ug/L	0.30841	-3.3912 ppb	0.30841	9.09%
Be 313.107†	-3747.4	-1.3933 ug/L	0.01334	-1.3933 ppb	0.01334	0.96%
Ca 317.933Radial†	-20.2	-39.247 ug/L	2.6417	-39.247 ppb	2.6417	6.73%
Cd 226.502†	2672.8	-4.2573 ug/L	0.94083	-4.2573 ppb	0.94083	22.10%
Co 228.616†	783.4	10.969 ug/L	0.1872	10.969 ppb	0.1872	1.71%
Cr 267.716†	-621.2	-4.1550 ug/L	0.56235	-4.1550 ppb	0.56235	13.53%
Cu 324.752†	-5827.7	-3.5049 ug/L	0.43623	-3.5049 ppb	0.43623	12.45%
Fe 238.204 Radial†	34543.7	378940 ug/L	6481.1	378940 ppb	6481.1	1.71%

K 766.490 Radial†	-53.7	-11.542 ug/L	18.0857	-11.542 ppb	18.0857	156.70%
Mg 279.077 IEC†	10.2	0.9482 ug/L	16.07536	0.9482 ppb	16.07536	>999.9%
Mn 257.610†	-30643.1	1.8006 ug/L	0.50343	1.8006 ppb	0.50343	27.96%
Mo 202.031†	-325.1	4.2194 ug/L	1.42570	4.2194 ppb	1.42570	33.79%
Na 589.592 Radial†	-239.6	-84.046 ug/L	13.0508	-84.046 ppb	13.0508	15.53%
Ni 231.604†	157.2	4.1927 ug/L	0.80839	4.1927 ppb	0.80839	19.28%
P 214.914†	476.8	-40.592 ug/L	11.1447	-40.592 ppb	11.1447	27.46%
Pb 220.353†	242.1	-4.9591 ug/L	1.21543	-4.9591 ppb	1.21543	24.51%
S 181.975 Axial†	3.4	4.4261 ug/L	7.38318	4.4261 ppb	7.38318	166.81%
Sb 206.836†	-10.2	-8.3323 ug/L	2.90486	-8.3323 ppb	2.90486	34.86%
Se 196.026†	-1653.5	190.06 ug/L	20.620	190.06 ppb	20.620	10.85%
Si 251.611†	-1206.4	-37.689 ug/L	1.0168	-37.689 ppb	1.0168	2.70%
Sn 189.927†	-32.5	-52.754 ug/L	0.5488	-52.754 ppb	0.5488	1.04%
Sr 421.552†	20.7	0.1726 ug/L	0.19697	0.1726 ppb	0.19697	114.09%
Ti 334.940†	2618.4	0.0006 ug/L	0.08345	0.0006 ppb	0.08345	>999.9%
Tl 190.801†	10.0	2.9360 ug/L	4.59381	2.9360 ppb	4.59381	156.46%
U 409.014†	305287.9	9765.5 ug/L	25.63	9765.5 ppb	25.63	0.26%
V 292.402†	4394.8	-2.6714 ug/L	1.12119	-2.6714 ppb	1.12119	41.97%
Zn 213.857†	3225.4	-24.499 ug/L	0.8348	-24.499 ppb	0.8348	3.41%
SiO2†	-1072.7	-71.280 ug/L	1.0245	-71.280 ppb	1.0245	1.44%

Sequence No.: 16

Sample ID: LR2

Analyst: HSC

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 37

Date Collected: 2/17/2010 15:18:33

Data Type: Reprocessed on 2/17/2010 15:41:20

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	829261.7	829261.7	104.21 %		15:21:43
1	Sc Radial	3945.0	3945.0	99.2 %		15:20:46
1	Y 371.029	671866.2	671866.2	104.49 %		15:21:43
1	Y RADIAL	4281.9	4281.9	103.7 %		15:20:26
1	Ag 328.068†	220.5	26.0	0.1576 ug/L	0.1576 ppb	15:21:48
1	Al 396.153Radial†	-165.7	-25.1	-25.884 ug/L	-25.884 ppb	15:20:26
1	As 188.979†	-39.8	-10.5	-4.4234 ug/L	-4.4234 ppb	15:22:08
1	B 249.677†	173.6	108.6	2.5887 ug/L	2.5887 ppb	15:21:48
1	Ba 233.527†	1208748.4	1159898.5	9736.7 ug/L	9736.7 ppb	15:21:43
1	Be 313.107†	-4038.8	362.8	0.1375 ug/L	0.1375 ppb	15:21:48
1	Ca 317.933Radial†	30.4	6.4	12.420 ug/L	12.420 ppb	15:20:46
1	Cd 226.502†	-157.4	57.6	0.7039 ug/L	0.7039 ppb	15:22:08
1	Co 228.616†	-292.4	-202.1	0.4233 ug/L	0.4233 ppb	15:22:08
1	Cr 267.716†	681.0	-43.7	-0.5405 ug/L	-0.5405 ppb	15:21:48
1	Cu 324.752†	8622.0	-45.4	-0.1422 ug/L	-0.1422 ppb	15:21:48
1	Fe 238.204 Radial†	19.0	8.1	89.157 ug/L	89.157 ppb	15:20:46
1	K 766.490 Radial†	3351.3	169.5	36.741 ug/L	36.741 ppb	15:20:26
1	Mg 279.077 IEC†	2.6	1.3	49.742 ug/L	49.742 ppb	15:20:46
1	Mn 257.610†	648.7	71.1	0.0894 ug/L	0.0894 ppb	15:22:08
1	Mo 202.031†	11.3	-10.2	-0.7857 ug/L	-0.7857 ppb	15:22:08
1	Na 589.592 Radial†	-267.5	-165.9	-58.194 ug/L	-58.194 ppb	15:20:26
1	Ni 231.604†	125.4	28.8	0.7717 ug/L	0.7717 ppb	15:22:08
1	P 214.914†	251.9	-1.6	-0.9235 ug/L	-0.9235 ppb	15:22:08
1	Pb 220.353†	-43.6	-25.8	-3.3549 ug/L	-3.3549 ppb	15:22:08
1	S 181.975 Axial†	63.4	-0.8	-1.0735 ug/L	-1.0735 ppb	15:22:08
1	Sb 206.836†	45.5	-0.3	-0.1508 ug/L	-0.1508 ppb	15:22:08
1	Se 196.026†	-22.0	5.4	3.3647 ug/L	3.3647 ppb	15:22:08
1	Si 251.611†	672.8	-20.3	-0.6309 ug/L	-0.6309 ppb	15:22:08
1	Sn 189.927†	27.7	-9.1	-1.6909 ug/L	-1.6909 ppb	15:22:08
1	Sr 421.552†	79.3	-31.7	-0.2637 ug/L	-0.2637 ppb	15:20:26
1	Ti 334.940†	-1217.9	433.7	0.7126 ug/L	0.7126 ppb	15:21:48
1	Tl 190.801†	0.7	22.0	7.1126 ug/L	7.1126 ppb	15:22:08
1	U 409.014†	-3386.9	322.8	10.363 ug/L	10.363 ppb	15:21:43
1	V 292.402†	-1662.0	177.0	1.3694 ug/L	1.3694 ppb	15:21:48
1	Zn 213.857†	941.4	41.5	0.3960 ug/L	0.3960 ppb	15:22:08
1	SiO2†	643.4	26.1	1.7741 ug/L	1.7741 ppb	15:23:14
2	Sc 361.383	830105.0	830105.0	104.32 %		15:22:13
2	Sc Radial	3962.6	3962.6	99.7 %		15:21:11
2	Y 371.029	672643.4	672643.4	104.61 %		15:22:13
2	Y RADIAL	4282.2	4282.2	103.7 %		15:20:51
2	Ag 328.068†	254.3	58.2	0.3110 ug/L	0.3110 ppb	15:22:18
2	Al 396.153Radial†	-148.8	-7.4	-7.7148 ug/L	-7.7148 ppb	15:20:51
2	As 188.979†	-23.2	5.4	2.3069 ug/L	2.3069 ppb	15:22:38
2	B 249.677†	127.5	64.2	1.5342 ug/L	1.5342 ppb	15:22:18
2	Ba 233.527†	1208904.7	1158869.9	9728.1 ug/L	9728.1 ppb	15:22:13
2	Be 313.107†	-4109.3	299.2	0.1140 ug/L	0.1140 ppb	15:22:18
2	Ca 317.933Radial†	30.6	6.4	12.444 ug/L	12.444 ppb	15:21:11
2	Cd 226.502†	-167.8	47.8	0.5859 ug/L	0.5859 ppb	15:22:38
2	Co 228.616†	-295.4	-204.8	0.3673 ug/L	0.3673 ppb	15:22:38
2	Cr 267.716†	640.9	-82.8	-1.0260 ug/L	-1.0260 ppb	15:22:18
2	Cu 324.752†	8720.9	41.1	0.1253 ug/L	0.1253 ppb	15:22:18
2	Fe 238.204 Radial†	16.3	5.3	58.049 ug/L	58.049 ppb	15:21:11
2	K 766.490 Radial†	3230.5	33.2	7.2262 ug/L	7.2262 ppb	15:20:51
2	Mg 279.077 IEC†	3.7	2.4	91.880 ug/L	91.880 ppb	15:21:11
2	Mn 257.610†	665.0	86.0	0.1020 ug/L	0.1020 ppb	15:22:38
2	Mo 202.031†	30.8	8.4	0.6543 ug/L	0.6543 ppb	15:22:38
2	Na 589.592 Radial†	-302.4	-199.7	-70.038 ug/L	-70.038 ppb	15:20:51
2	Ni 231.604†	131.5	34.4	0.9233 ug/L	0.9233 ppb	15:22:38

2	P 214.914†	247.3	-6.2	-3.5156 ug/L	-3.5156 ppb	15:22:38
2	Pb 220.353†	-13.7	2.8	0.3553 ug/L	0.3553 ppb	15:22:38
2	S 181.975 Axial†	61.1	-3.2	-4.0879 ug/L	-4.0879 ppb	15:22:38
2	Sb 206.836†	49.5	3.5	1.1942 ug/L	1.1942 ppb	15:22:38
2	Se 196.026†	-27.1	0.4	0.4355 ug/L	0.4355 ppb	15:22:38
2	Si 251.611†	1184.3	469.4	14.777 ug/L	14.777 ppb	15:22:38
2	Sn 189.927†	24.8	-11.9	-2.2033 ug/L	-2.2033 ppb	15:22:38
2	Sr 421.552†	18.9	-92.7	-0.7710 ug/L	-0.7710 ppb	15:20:51
2	Ti 334.940†	-1136.4	513.0	0.8410 ug/L	0.8410 ppb	15:22:18
2	Tl 190.801†	0.6	21.9	7.0870 ug/L	7.0870 ppb	15:22:38
2	U 409.014†	-3400.0	313.5	10.069 ug/L	10.069 ppb	15:22:13
2	V 292.402†	-1746.4	97.7	0.7794 ug/L	0.7794 ppb	15:22:18
2	Zn 213.857†	935.3	34.7	0.3323 ug/L	0.3323 ppb	15:22:38
2	SiO2†	597.8	-18.2	-1.2397 ug/L	-1.2397 ppb	15:23:19
3	Sc 361.383	837286.8	837286.8	105.22 %		15:22:44
3	Sc Radial	3938.8	3938.8	99.1 %		15:21:36
3	Y 371.029	678131.5	678131.5	105.46 %		15:22:44
3	Y RADIAL	4198.5	4198.5	101.6 %		15:21:16
3	Ag 328.068†	170.2	-23.9	-0.1157 ug/L	-0.1157 ppb	15:22:49
3	Al 396.153Radial†	-131.3	9.4	9.6554 ug/L	9.6554 ppb	15:21:16
3	As 188.979†	-29.7	-0.5	-0.2198 ug/L	-0.2198 ppb	15:23:09
3	B 249.677†	192.4	124.9	2.9846 ug/L	2.9846 ppb	15:22:49
3	Ba 233.527†	1222371.7	1161728.8	9752.1 ug/L	9752.1 ppb	15:22:44
3	Be 313.107†	-4205.3	241.8	0.0908 ug/L	0.0908 ppb	15:22:49
3	Ca 317.933Radial†	32.2	8.2	15.964 ug/L	15.964 ppb	15:21:36
3	Cd 226.502†	-173.3	43.9	0.5394 ug/L	0.5394 ppb	15:23:09
3	Co 228.616†	-301.8	-208.3	0.3057 ug/L	0.3057 ppb	15:23:09
3	Cr 267.716†	556.8	-168.0	-2.0789 ug/L	-2.0789 ppb	15:22:49
3	Cu 324.752†	8776.2	21.9	0.0648 ug/L	0.0648 ppb	15:22:49
3	Fe 238.204 Radial†	14.7	3.8	41.917 ug/L	41.917 ppb	15:21:36
3	K 766.490 Radial†	3282.2	105.1	22.794 ug/L	22.794 ppb	15:21:16
3	Mg 279.077 IEC†	0.4	-0.9	-37.048 ug/L	-37.048 ppb	15:21:36
3	Mn 257.610†	665.7	81.2	0.1000 ug/L	0.1000 ppb	15:23:09
3	Mo 202.031†	31.2	8.5	0.6637 ug/L	0.6637 ppb	15:23:09
3	Na 589.592 Radial†	-335.6	-235.1	-82.455 ug/L	-82.455 ppb	15:21:16
3	Ni 231.604†	103.3	6.6	0.1801 ug/L	0.1801 ppb	15:23:09
3	P 214.914†	225.9	-28.6	-15.721 ug/L	-15.721 ppb	15:23:09
3	Pb 220.353†	-14.0	2.7	0.3475 ug/L	0.3475 ppb	15:23:09
3	S 181.975 Axial†	65.8	0.8	1.0730 ug/L	1.0730 ppb	15:23:09
3	Sb 206.836†	34.4	-11.3	-3.9664 ug/L	-3.9664 ppb	15:23:09
3	Se 196.026†	-27.2	0.6	0.4844 ug/L	0.4844 ppb	15:23:09
3	Si 251.611†	691.9	-8.4	-0.2724 ug/L	-0.2724 ppb	15:23:09
3	Sn 189.927†	38.8	1.2	0.2193 ug/L	0.2193 ppb	15:23:09
3	Sr 421.552†	17.1	-94.4	-0.7849 ug/L	-0.7849 ppb	15:21:16
3	Ti 334.940†	-1621.9	60.9	0.1025 ug/L	0.1025 ppb	15:22:49
3	Tl 190.801†	-6.5	15.1	4.8994 ug/L	4.8994 ppb	15:23:09
3	U 409.014†	-3422.6	320.1	10.283 ug/L	10.283 ppb	15:22:44
3	V 292.402†	-1775.8	84.1	0.6757 ug/L	0.6757 ppb	15:22:49
3	Zn 213.857†	954.7	45.5	0.4465 ug/L	0.4465 ppb	15:23:09
3	SiO2†	669.5	45.0	2.9998 ug/L	2.9998 ppb	15:23:24

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	832217.8	104.58 %	0.554			0.53%
Sc Radial	3948.8	99.3 %	0.31			0.31%
Y 371.029	674213.7	104.85 %	0.531			0.51%
Y RADIAL	4254.2	103.0 %	1.17			1.13%
Ag 328.068†	20.1	0.1176 ug/L	0.21615	0.1176 ppb	0.21615	183.76%
Al 396.153Radial†	-7.7	-7.9811 ug/L	17.77116	-7.9811 ppb	17.77116	222.66%
As 188.979†	-1.9	-0.7788 ug/L	3.39977	-0.7788 ppb	3.39977	436.54%
B 249.677†	99.2	2.3691 ug/L	0.74971	2.3691 ppb	0.74971	31.64%
Ba 233.527†	1160165.7	9739.0 ug/L	12.15	9739.0 ppb	12.15	0.12%
Be 313.107†	301.3	0.1141 ug/L	0.02336	0.1141 ppb	0.02336	20.48%
Ca 317.933Radial†	7.0	13.609 ug/L	2.0391	13.609 ppb	2.0391	14.98%
Cd 226.502†	49.8	0.6097 ug/L	0.08482	0.6097 ppb	0.08482	13.91%
Co 228.616†	-205.1	0.3654 ug/L	0.05881	0.3654 ppb	0.05881	16.09%
Cr 267.716†	-98.2	-1.2151 ug/L	0.78641	-1.2151 ppb	0.78641	64.72%
Cu 324.752†	5.9	0.0160 ug/L	0.14027	0.0160 ppb	0.14027	879.09%
Fe 238.204 Radial†	5.8	63.041 ug/L	24.0120	63.041 ppb	24.0120	38.09%

K 766.490 Radial†	102.6	22.254 ug/L	14.7650	22.254 ppb	14.7650	66.35%
Mg 279.077 IEC†	0.9	34.858 ug/L	65.7400	34.858 ppb	65.7400	188.59%
Mn 257.610†	79.4	0.0971 ug/L	0.00680	0.0971 ppb	0.00680	7.00%
Mo 202.031†	2.2	0.1775 ug/L	0.83412	0.1775 ppb	0.83412	469.98%
Na 589.592 Radial†	-200.2	-70.229 ug/L	12.1316	-70.229 ppb	12.1316	17.27%
Ni 231.604†	23.3	0.6250 ug/L	0.39270	0.6250 ppb	0.39270	62.83%
P 214.914†	-12.1	-6.7199 ug/L	7.90186	-6.7199 ppb	7.90186	117.59%
Pb 220.353†	-6.8	-0.8841 ug/L	2.13982	-0.8841 ppb	2.13982	242.04%
S 181.975 Axial†	-1.1	-1.3628 ug/L	2.59255	-1.3628 ppb	2.59255	190.24%
Sb 206.836†	-2.7	-0.9743 ug/L	2.67703	-0.9743 ppb	2.67703	274.76%
Se 196.026†	2.2	1.4282 ug/L	1.67723	1.4282 ppb	1.67723	117.44%
Si 251.611†	146.9	4.6245 ug/L	8.79391	4.6245 ppb	8.79391	190.16%
Sn 189.927†	-6.6	-1.2250 ug/L	1.27674	-1.2250 ppb	1.27674	104.22%
Sr 421.552†	-72.9	-0.6065 ug/L	0.29699	-0.6065 ppb	0.29699	48.97%
Ti 334.940†	335.9	0.5520 ug/L	0.39458	0.5520 ppb	0.39458	71.48%
Tl 190.801†	19.7	6.3663 ug/L	1.27047	6.3663 ppb	1.27047	19.96%
U 409.014†	318.8	10.239 ug/L	0.1521	10.239 ppb	0.1521	1.49%
V 292.402†	119.6	0.9415 ug/L	0.37419	0.9415 ppb	0.37419	39.74%
Zn 213.857†	40.6	0.3916 ug/L	0.05723	0.3916 ppb	0.05723	14.61%
SiO2†	17.6	1.1781 ug/L	2.18170	1.1781 ppb	2.18170	185.20%

Sequence No.: 17

Sample ID: CCV

Analyst:

Logged In Analyst (Original) : Optima3

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/17/2010 15:25:36

Data Type: Reprocessed on 2/17/2010 15:41:22

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	834710.2	834710.2	104.90 %		15:28:48
1	Sc Radial	3881.8	3881.8	97.6 %		15:27:49
1	Y 371.029	668576.4	668576.4	103.98 %		15:28:48
1	Y RADIAL	4146.7	4146.7	100.4 %		15:27:29
1	Ag 328.068†	98065.0	93302.4	481.66 ug/L	481.66 ppb	15:28:48
1	Al 396.153Radial†	4572.1	4824.8	4968.8 ug/L	4968.8 ppb	15:27:29
1	As 188.979†	1175.0	1147.9	490.34 ug/L	490.34 ppb	15:29:08
1	B 249.677†	21014.9	19976.0	474.41 ug/L	474.41 ppb	15:28:48
1	Ba 233.527†	60679.6	57841.1	486.76 ug/L	486.76 ppb	15:28:48
1	Be 313.107†	1359086.2	1299893.4	487.83 ug/L	487.83 ppb	15:28:48
1	Ca 317.933Radial†	2579.1	2617.3	5082.5 ug/L	5082.5 ppb	15:27:49
1	Cd 226.502†	40182.5	38515.8	475.02 ug/L	475.02 ppb	15:29:08
1	Co 228.616†	23661.0	22635.1	477.15 ug/L	477.15 ppb	15:29:08
1	Cr 267.716†	41451.3	38819.5	480.51 ug/L	480.51 ppb	15:28:48
1	Cu 324.752†	169278.8	153059.3	476.24 ug/L	476.24 ppb	15:28:48
1	Fe 238.204 Radial†	460.1	460.2	5063.0 ug/L	5063.0 ppb	15:27:49
1	K 766.490 Radial†	25586.8	22998.7	4976.8 ug/L	4976.8 ppb	15:27:29
1	Mg 279.077 IEC†	132.3	134.2	5245.5 ug/L	5245.5 ppb	15:27:49
1	Mn 257.610†	438398.0	417385.6	485.32 ug/L	485.32 ppb	15:28:48
1	Mo 202.031†	6474.3	6151.0	477.23 ug/L	477.23 ppb	15:29:08
1	Na 589.592 Radial†	26693.7	27444.1	9625.9 ug/L	9625.9 ppb	15:27:29
1	Ni 231.604†	18897.1	17923.6	478.79 ug/L	478.79 ppb	15:29:08
1	P 214.914†	4841.4	4372.1	2301.3 ug/L	2301.3 ppb	15:29:08
1	Pb 220.353†	3897.4	3731.5	483.99 ug/L	483.99 ppb	15:29:08
1	S 181.975 Axial†	821.7	721.7	935.68 ug/L	935.68 ppb	15:29:08
1	Sb 206.836†	1434.3	1323.4	482.73 ug/L	482.73 ppb	15:29:08
1	Se 196.026†	864.3	850.4	504.87 ug/L	504.87 ppb	15:29:08
1	Si 251.611†	80320.7	75906.0	2385.0 ug/L	2385.0 ppb	15:28:48
1	Sn 189.927†	2754.1	2589.9	479.10 ug/L	479.10 ppb	15:29:08
1	Sr 421.552†	57926.1	59217.8	492.25 ug/L	492.25 ppb	15:27:29
1	Ti 334.940†	306220.9	293531.3	486.74 ug/L	486.74 ppb	15:28:48
1	Tl 190.801†	1577.4	1525.2	494.88 ug/L	494.88 ppb	15:29:08
1	U 409.014†	11589.6	14621.5	468.13 ug/L	468.13 ppb	15:28:48
1	V 292.402†	63174.5	61998.0	487.32 ug/L	487.32 ppb	15:28:48
1	Zn 213.857†	51781.9	48503.2	479.95 ug/L	479.95 ppb	15:28:48
1	SiO2†	78888.2	74615.0	4992.7 ug/L	4992.7 ppb	15:30:08
2	Sc 361.383	828337.4	828337.4	104.09 %		15:29:15
2	Sc Radial	3902.7	3902.7	98.2 %		15:28:14
2	Y 371.029	663464.7	663464.7	103.18 %		15:29:15
2	Y RADIAL	4155.1	4155.1	100.6 %		15:27:54
2	Ag 328.068†	97133.0	93126.4	480.74 ug/L	480.74 ppb	15:29:15
2	Al 396.153Radial†	4555.4	4782.6	4925.0 ug/L	4925.0 ppb	15:27:54
2	As 188.979†	1162.4	1144.3	488.82 ug/L	488.82 ppb	15:29:35
2	B 249.677†	20824.1	19946.9	473.71 ug/L	473.71 ppb	15:29:15
2	Ba 233.527†	60193.2	57818.9	486.57 ug/L	486.57 ppb	15:29:15
2	Be 313.107†	1349333.3	1300492.3	488.05 ug/L	488.05 ppb	15:29:15
2	Ca 317.933Radial†	2565.4	2589.2	5027.8 ug/L	5027.8 ppb	15:28:14
2	Cd 226.502†	40258.0	38883.0	479.55 ug/L	479.55 ppb	15:29:35
2	Co 228.616†	23675.2	22822.4	481.10 ug/L	481.10 ppb	15:29:35
2	Cr 267.716†	41162.0	38845.6	480.83 ug/L	480.83 ppb	15:29:15
2	Cu 324.752†	167408.1	152503.7	474.50 ug/L	474.50 ppb	15:29:15
2	Fe 238.204 Radial†	457.8	455.4	5010.0 ug/L	5010.0 ppb	15:28:14
2	K 766.490 Radial†	25802.2	23077.4	4993.9 ug/L	4993.9 ppb	15:27:54
2	Mg 279.077 IEC†	129.0	130.1	5083.9 ug/L	5083.9 ppb	15:28:14
2	Mn 257.610†	435073.4	417407.3	485.35 ug/L	485.35 ppb	15:29:15
2	Mo 202.031†	6469.1	6193.5	480.52 ug/L	480.52 ppb	15:29:35
2	Na 589.592 Radial†	26691.3	27294.8	9573.5 ug/L	9573.5 ppb	15:27:54
2	Ni 231.604†	18917.0	18081.3	483.00 ug/L	483.00 ppb	15:29:35

2	P 214.914†	4846.9	4412.9	2324.0 ug/L	2324.0 ppb	15:29:35
2	Pb 220.353†	3927.4	3788.9	491.41 ug/L	491.41 ppb	15:29:35
2	S 181.975 Axial†	829.2	734.9	952.82 ug/L	952.82 ppb	15:29:35
2	Sb 206.836†	1454.7	1353.5	493.42 ug/L	493.42 ppb	15:29:35
2	Se 196.026†	864.2	856.7	508.34 ug/L	508.34 ppb	15:29:35
2	Si 251.611†	79565.9	75770.0	2380.7 ug/L	2380.7 ppb	15:29:15
2	Sn 189.927†	2745.4	2601.7	481.28 ug/L	481.28 ppb	15:29:35
2	Sr 421.552†	58076.3	59052.2	490.88 ug/L	490.88 ppb	15:27:54
2	Ti 334.940†	303677.9	293334.3	486.42 ug/L	486.42 ppb	15:29:15
2	Tl 190.801†	1563.0	1522.9	494.13 ug/L	494.13 ppb	15:29:35
2	U 409.014†	11637.7	14752.8	472.35 ug/L	472.35 ppb	15:29:15
2	V 292.402†	62902.5	62199.9	488.95 ug/L	488.95 ppb	15:29:15
2	Zn 213.857†	51454.3	48568.4	480.59 ug/L	480.59 ppb	15:29:15
2	SiO2†	79935.7	76200.0	5098.9 ug/L	5098.9 ppb	15:30:13
3	Sc 361.383	825891.6	825891.6	103.79 %		15:29:42
3	Sc Radial	3921.4	3921.4	98.6 %		15:28:39
3	Y 371.029	661779.0	661779.0	102.92 %		15:29:42
3	Y RADIAL	4120.8	4120.8	99.75 %		15:28:19
3	Ag 328.068†	97139.2	93408.7	482.20 ug/L	482.20 ppb	15:29:42
3	Al 396.153Radial†	4497.0	4701.3	4840.8 ug/L	4840.8 ppb	15:28:19
3	As 188.979†	1158.3	1143.7	488.55 ug/L	488.55 ppb	15:30:02
3	B 249.677†	20854.8	20035.8	475.82 ug/L	475.82 ppb	15:29:42
3	Ba 233.527†	60162.3	57960.4	487.76 ug/L	487.76 ppb	15:29:42
3	Be 313.107†	1345799.6	1300926.3	488.21 ug/L	488.21 ppb	15:29:42
3	Ca 317.933Radial†	2591.4	2603.1	5054.8 ug/L	5054.8 ppb	15:28:39
3	Cd 226.502†	40224.4	38965.1	480.57 ug/L	480.57 ppb	15:30:02
3	Co 228.616†	23670.0	22884.7	482.42 ug/L	482.42 ppb	15:30:02
3	Cr 267.716†	41137.5	38939.1	481.99 ug/L	481.99 ppb	15:29:42
3	Cu 324.752†	167067.9	152652.2	474.97 ug/L	474.97 ppb	15:29:42
3	Fe 238.204 Radial†	460.9	456.3	5020.1 ug/L	5020.1 ppb	15:28:39
3	K 766.490 Radial†	25426.0	22570.7	4884.2 ug/L	4884.2 ppb	15:28:19
3	Mg 279.077 IEC†	131.8	132.3	5170.0 ug/L	5170.0 ppb	15:28:39
3	Mn 257.610†	434536.8	418128.0	486.19 ug/L	486.19 ppb	15:29:42
3	Mo 202.031†	6474.5	6217.2	482.36 ug/L	482.36 ppb	15:30:02
3	Na 589.592 Radial†	26277.3	26745.5	9380.8 ug/L	9380.8 ppb	15:28:19
3	Ni 231.604†	18899.4	18118.1	483.98 ug/L	483.98 ppb	15:30:02
3	P 214.914†	4838.6	4418.7	2327.1 ug/L	2327.1 ppb	15:30:02
3	Pb 220.353†	3924.1	3796.9	492.44 ug/L	492.44 ppb	15:30:02
3	S 181.975 Axial†	825.0	733.3	950.76 ug/L	950.76 ppb	15:30:02
3	Sb 206.836†	1437.9	1341.4	489.31 ug/L	489.31 ppb	15:30:02
3	Se 196.026†	856.3	851.6	505.42 ug/L	505.42 ppb	15:30:02
3	Si 251.611†	79560.3	75990.9	2387.6 ug/L	2387.6 ppb	15:29:42
3	Sn 189.927†	2765.3	2628.7	486.28 ug/L	486.28 ppb	15:30:02
3	Sr 421.552†	57176.1	57857.6	480.94 ug/L	480.94 ppb	15:28:19
3	Ti 334.940†	303235.5	293772.0	487.14 ug/L	487.14 ppb	15:29:42
3	Tl 190.801†	1563.2	1527.5	495.61 ug/L	495.61 ppb	15:30:02
3	U 409.014†	11380.9	14538.4	465.46 ug/L	465.46 ppb	15:29:42
3	V 292.402†	62784.4	62265.1	489.46 ug/L	489.46 ppb	15:29:42
3	Zn 213.857†	51412.8	48674.7	481.64 ug/L	481.64 ppb	15:29:42
3	SiO2†	80055.9	76543.2	5121.9 ug/L	5121.9 ppb	15:30:18

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	829646.4	104.26 %	0.572			0.55%
Sc Radial	3902.0	98.1 %	0.50			0.51%
Y 371.029	664606.7	103.36 %	0.550			0.53%
Y RADIAL	4140.9	100.2 %	0.43			0.43%
Ag 328.068†	93279.2	481.53 ug/L	0.737	481.53 ppb	0.737	0.15%
QC value within limits for Ag 328.068 Recovery = 96.31%						
Al 396.153Radial†	4769.6	4911.5 ug/L	65.04	4911.5 ppb	65.04	1.32%
QC value within limits for Al 396.153Radial Recovery = 98.23%						
As 188.979†	1145.3	489.24 ug/L	0.965	489.24 ppb	0.965	0.20%
QC value within limits for As 188.979 Recovery = 97.85%						
B 249.677†	19986.2	474.65 ug/L	1.078	474.65 ppb	1.078	0.23%
QC value within limits for B 249.677 Recovery = 94.93%						
Ba 233.527†	57873.5	487.03 ug/L	0.640	487.03 ppb	0.640	0.13%
QC value within limits for Ba 233.527 Recovery = 97.41%						
Be 313.107†	1300437.3	488.03 ug/L	0.195	488.03 ppb	0.195	0.04%
QC value within limits for Be 313.107 Recovery = 97.61%						

Ca 317.933Radial†	2603.2	5055.0 ug/L	27.33	5055.0 ppb	27.33	0.54%
QC value within limits for Ca 317.933Radial Recovery = 101.10%						
Cd 226.502†	38788.0	478.38 ug/L	2.956	478.38 ppb	2.956	0.62%
QC value within limits for Cd 226.502 Recovery = 95.68%						
Co 228.616†	22780.7	480.22 ug/L	2.744	480.22 ppb	2.744	0.57%
QC value within limits for Co 228.616 Recovery = 96.04%						
Cr 267.716†	38868.1	481.11 ug/L	0.779	481.11 ppb	0.779	0.16%
QC value within limits for Cr 267.716 Recovery = 96.22%						
Cu 324.752†	152738.4	475.23 ug/L	0.897	475.23 ppb	0.897	0.19%
QC value within limits for Cu 324.752 Recovery = 95.05%						
Fe 238.204 Radial†	457.3	5031.0 ug/L	28.13	5031.0 ppb	28.13	0.56%
QC value within limits for Fe 238.204 Radial Recovery = 100.62%						
K 766.490 Radial†	22882.3	4951.6 ug/L	59.04	4951.6 ppb	59.04	1.19%
QC value within limits for K 766.490 Radial Recovery = 99.03%						
Mg 279.077 IEC†	132.2	5166.4 ug/L	80.89	5166.4 ppb	80.89	1.57%
QC value within limits for Mg 279.077 IEC Recovery = 103.33%						
Mn 257.610†	417640.3	485.62 ug/L	0.490	485.62 ppb	0.490	0.10%
QC value within limits for Mn 257.610 Recovery = 97.12%						
Mo 202.031†	6187.2	480.03 ug/L	2.597	480.03 ppb	2.597	0.54%
QC value within limits for Mo 202.031 Recovery = 96.01%						
Na 589.592 Radial†	27161.5	9526.7 ug/L	129.04	9526.7 ppb	129.04	1.35%
QC value within limits for Na 589.592 Radial Recovery = 95.27%						
Ni 231.604†	18041.0	481.92 ug/L	2.760	481.92 ppb	2.760	0.57%
QC value within limits for Ni 231.604 Recovery = 96.38%						
P 214.914†	4401.2	2317.5 ug/L	14.10	2317.5 ppb	14.10	0.61%
QC value within limits for P 214.914 Recovery = 92.70%						
Pb 220.353†	3772.4	489.28 ug/L	4.608	489.28 ppb	4.608	0.94%
QC value within limits for Pb 220.353 Recovery = 97.86%						
S 181.975 Axial†	729.9	946.42 ug/L	9.355	946.42 ppb	9.355	0.99%
QC value within limits for S 181.975 Axial Recovery = 94.64%						
Sb 206.836†	1339.4	488.49 ug/L	5.390	488.49 ppb	5.390	1.10%
QC value within limits for Sb 206.836 Recovery = 97.70%						
Se 196.026†	852.9	506.21 ug/L	1.869	506.21 ppb	1.869	0.37%
QC value within limits for Se 196.026 Recovery = 101.24%						
Si 251.611†	75889.0	2384.4 ug/L	3.50	2384.4 ppb	3.50	0.15%
QC value within limits for Si 251.611 Recovery = 95.38%						
Sn 189.927†	2606.8	482.22 ug/L	3.681	482.22 ppb	3.681	0.76%
QC value within limits for Sn 189.927 Recovery = 96.44%						
Sr 421.552†	58709.2	488.02 ug/L	6.170	488.02 ppb	6.170	1.26%
QC value within limits for Sr 421.552 Recovery = 97.60%						
Ti 334.940†	293545.9	486.77 ug/L	0.363	486.77 ppb	0.363	0.07%
QC value within limits for Ti 334.940 Recovery = 97.35%						
Tl 190.801†	1525.2	494.87 ug/L	0.741	494.87 ppb	0.741	0.15%
QC value within limits for Tl 190.801 Recovery = 98.97%						
U 409.014†	14637.6	468.65 ug/L	3.474	468.65 ppb	3.474	0.74%
QC value within limits for U 409.014 Recovery = 93.73%						
V 292.402†	62154.3	488.58 ug/L	1.119	488.58 ppb	1.119	0.23%
QC value within limits for V 292.402 Recovery = 97.72%						
Zn 213.857†	48582.1	480.73 ug/L	0.853	480.73 ppb	0.853	0.18%
QC value within limits for Zn 213.857 Recovery = 96.15%						
SiO2†	75786.1	5071.2 ug/L	68.93	5071.2 ppb	68.93	1.36%
QC value within limits for SiO2 Recovery = 94.83%						
All analyte(s) passed QC.						

Sequence No.: 18
 Sample ID: CCB
 Analyst:
 Logged In Analyst (Original) : Optima3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 2/17/2010 15:32:28
 Data Type: Reprocessed on 2/17/2010 15:41:23

Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc 361.383	809732.9	809732.9	101.76 %		15:35:38
1	Sc Radial	3938.2	3938.2	99.1 %		15:34:41
1	Y 371.029	658106.7	658106.7	102.35 %		15:35:38
1	Y RADIAL	4246.0	4246.0	102.8 %		15:34:21
1	Ag 328.068†	123.3	-64.5	-0.3212 ug/L	-0.3212 ppb	15:35:38
1	Al 396.153Radial†	-141.0	-0.4	-0.4870 ug/L	-0.4870 ppb	15:34:21
1	As 188.979†	-29.0	-0.9	-0.3598 ug/L	-0.3598 ppb	15:35:58
1	B 249.677†	187.0	125.7	2.9966 ug/L	2.9966 ppb	15:35:38
1	Ba 233.527†	31.5	24.6	0.2075 ug/L	0.2075 ppb	15:35:58
1	Be 313.107†	-4085.4	223.5	0.0839 ug/L	0.0839 ppb	15:35:38
1	Ca 317.933Radial†	25.0	1.0	1.9594 ug/L	1.9594 ppb	15:34:41
1	Cd 226.502†	-175.8	35.9	0.4398 ug/L	0.4398 ppb	15:35:58
1	Co 228.616†	-75.1	4.6	0.1010 ug/L	0.1010 ppb	15:35:58
1	Cr 267.716†	475.4	-230.0	-2.8417 ug/L	-2.8417 ppb	15:35:38
1	Cu 324.752†	8351.5	-111.6	-0.3446 ug/L	-0.3446 ppb	15:35:38
1	Fe 238.204 Radial†	12.7	1.7	19.124 ug/L	19.124 ppb	15:34:41
1	K 766.490 Radial†	3293.0	116.5	25.239 ug/L	25.239 ppb	15:34:21
1	Mg 279.077 IEC†	1.6	0.2	8.7297 ug/L	8.7297 ppb	15:34:41
1	Mn 257.610†	630.9	68.6	0.0812 ug/L	0.0812 ppb	15:35:58
1	Mo 202.031†	34.5	12.8	0.9917 ug/L	0.9917 ppb	15:35:58
1	Na 589.592 Radial†	-115.6	-13.0	-4.5634 ug/L	-4.5634 ppb	15:34:21
1	Ni 231.604†	96.9	3.7	0.0979 ug/L	0.0979 ppb	15:35:58
1	P 214.914†	227.3	-19.9	-10.878 ug/L	-10.878 ppb	15:35:58
1	Pb 220.353†	-23.5	-7.1	-0.9196 ug/L	-0.9196 ppb	15:35:58
1	S 181.975 Axial†	57.6	-5.1	-6.6189 ug/L	-6.6189 ppb	15:35:58
1	Sb 206.836†	46.0	1.3	0.4450 ug/L	0.4450 ppb	15:35:58
1	Se 196.026†	-14.1	12.6	7.3093 ug/L	7.3093 ppb	15:35:58
1	Si 251.611†	584.6	-91.4	-2.8915 ug/L	-2.8915 ppb	15:35:58
1	Sn 189.927†	29.5	-6.7	-1.2365 ug/L	-1.2365 ppb	15:35:58
1	Sr 421.552†	50.5	-60.7	-0.5043 ug/L	-0.5043 ppb	15:34:21
1	Ti 334.940†	-1578.2	51.4	0.0872 ug/L	0.0872 ppb	15:35:38
1	Tl 190.801†	-9.5	12.0	3.8736 ug/L	3.8736 ppb	15:35:58
1	U 409.014†	-3734.6	-97.2	-3.1194 ug/L	-3.1194 ppb	15:35:38
1	V 292.402†	-1763.5	38.8	0.3074 ug/L	0.3074 ppb	15:35:38
1	Zn 213.857†	894.1	16.7	0.1641 ug/L	0.1641 ppb	15:35:58
1	SiO2†	603.8	2.1	0.1126 ug/L	0.1126 ppb	15:36:54
2	Sc 361.383	812472.9	812472.9	102.10 %		15:36:03
2	Sc Radial	3960.5	3960.5	99.6 %		15:35:06
2	Y 371.029	659676.6	659676.6	102.59 %		15:36:03
2	Y RADIAL	4164.7	4164.7	100.8 %		15:34:46
2	Ag 328.068†	227.0	36.7	0.1827 ug/L	0.1827 ppb	15:36:03
2	Al 396.153Radial†	-148.7	-7.3	-7.6159 ug/L	-7.6159 ppb	15:34:46
2	As 188.979†	-23.7	4.4	1.8605 ug/L	1.8605 ppb	15:36:23
2	B 249.677†	196.1	134.0	3.1981 ug/L	3.1981 ppb	15:36:03
2	Ba 233.527†	53.6	46.1	0.3872 ug/L	0.3872 ppb	15:36:23
2	Be 313.107†	-4100.4	222.4	0.0837 ug/L	0.0837 ppb	15:36:03
2	Ca 317.933Radial†	18.9	-5.3	-10.339 ug/L	-10.339 ppb	15:35:06
2	Cd 226.502†	-187.3	25.2	0.3130 ug/L	0.3130 ppb	15:36:23
2	Co 228.616†	-67.2	12.7	0.2690 ug/L	0.2690 ppb	15:36:23
2	Cr 267.716†	504.8	-202.8	-2.5089 ug/L	-2.5089 ppb	15:36:03
2	Cu 324.752†	8401.9	-90.0	-0.2831 ug/L	-0.2831 ppb	15:36:03
2	Fe 238.204 Radial†	10.0	-1.0	-11.124 ug/L	-11.124 ppb	15:35:06
2	K 766.490 Radial†	3296.1	100.8	21.848 ug/L	21.848 ppb	15:34:46
2	Mg 279.077 IEC†	3.1	1.8	68.665 ug/L	68.665 ppb	15:35:06
2	Mn 257.610†	593.8	30.2	0.0311 ug/L	0.0311 ppb	15:36:23
2	Mo 202.031†	26.6	4.9	0.3811 ug/L	0.3811 ppb	15:36:23
2	Na 589.592 Radial†	-203.5	-100.6	-35.300 ug/L	-35.300 ppb	15:34:46
2	Ni 231.604†	102.6	8.9	0.2385 ug/L	0.2385 ppb	15:36:23

2	P 214.914†	240.0	-8.3	-4.4945 ug/L	-4.4945 ppb	15:36:23
2	Pb 220.353†	-28.9	-12.3	-1.5947 ug/L	-1.5947 ppb	15:36:23
2	S 181.975 Axial†	60.6	-2.3	-3.0050 ug/L	-3.0050 ppb	15:36:23
2	Sb 206.836†	42.6	-2.3	-0.7994 ug/L	-0.7994 ppb	15:36:23
2	Se 196.026†	-25.7	1.3	0.7168 ug/L	0.7168 ppb	15:36:23
2	Si 251.611†	591.2	-86.9	-2.7419 ug/L	-2.7419 ppb	15:36:23
2	Sn 189.927†	32.6	-3.8	-0.7001 ug/L	-0.7001 ppb	15:36:23
2	Sr 421.552†	60.8	-50.6	-0.4206 ug/L	-0.4206 ppb	15:34:46
2	Ti 334.940†	-1533.7	100.2	0.1581 ug/L	0.1581 ppb	15:36:03
2	Tl 190.801†	-7.1	14.4	4.6403 ug/L	4.6403 ppb	15:36:23
2	U 409.014†	-3505.8	139.3	4.4809 ug/L	4.4809 ppb	15:36:03
2	V 292.402†	-1760.8	47.3	0.3846 ug/L	0.3846 ppb	15:36:03
2	Zn 213.857†	899.3	18.9	0.1894 ug/L	0.1894 ppb	15:36:23
2	SiO2†	550.6	-52.0	-3.5000 ug/L	-3.5000 ppb	15:36:59
3	Sc 361.383	806934.5	806934.5	101.41 %		15:36:29
3	Sc Radial	3945.7	3945.7	99.2 %		15:35:31
3	Y 371.029	655855.5	655855.5	102.00 %		15:36:29
3	Y RADIAL	4130.9	4130.9	100.00 %		15:35:11
3	Ag 328.068†	252.9	63.8	0.3324 ug/L	0.3324 ppb	15:36:29
3	Al 396.153Radial†	-165.3	-24.7	-25.572 ug/L	-25.572 ppb	15:35:11
3	As 188.979†	-30.1	-2.0	-0.8625 ug/L	-0.8625 ppb	15:36:49
3	B 249.677†	202.0	141.2	3.3669 ug/L	3.3669 ppb	15:36:29
3	Ba 233.527†	49.4	42.3	0.3553 ug/L	0.3553 ppb	15:36:49
3	Be 313.107†	-4083.6	211.4	0.0792 ug/L	0.0792 ppb	15:36:29
3	Ca 317.933Radial†	17.0	-7.1	-13.773 ug/L	-13.773 ppb	15:35:31
3	Cd 226.502†	-178.9	32.2	0.3957 ug/L	0.3957 ppb	15:36:49
3	Co 228.616†	-80.9	-1.4	-0.0270 ug/L	-0.0270 ppb	15:36:49
3	Cr 267.716†	500.6	-203.5	-2.5150 ug/L	-2.5150 ppb	15:36:29
3	Cu 324.752†	8243.6	-189.5	-0.5877 ug/L	-0.5877 ppb	15:36:29
3	Fe 238.204 Radial†	11.7	0.7	8.0199 ug/L	8.0199 ppb	15:35:31
3	K 766.490 Radial†	3274.4	91.4	19.818 ug/L	19.818 ppb	15:35:11
3	Mg 279.077 IEC†	3.1	1.7	67.798 ug/L	67.798 ppb	15:35:31
3	Mn 257.610†	598.7	38.9	0.0433 ug/L	0.0433 ppb	15:36:49
3	Mo 202.031†	25.1	3.6	0.2832 ug/L	0.2832 ppb	15:36:49
3	Na 589.592 Radial†	-232.4	-130.5	-45.777 ug/L	-45.777 ppb	15:35:11
3	Ni 231.604†	110.9	17.8	0.4751 ug/L	0.4751 ppb	15:36:49
3	P 214.914†	246.0	-0.7	-0.3068 ug/L	-0.3068 ppb	15:36:49
3	Pb 220.353†	-17.2	-1.0	-0.1315 ug/L	-0.1315 ppb	15:36:49
3	S 181.975 Axial†	52.6	-9.8	-12.682 ug/L	-12.682 ppb	15:36:49
3	Sb 206.836†	50.8	6.1	2.1109 ug/L	2.1109 ppb	15:36:49
3	Se 196.026†	-34.2	-7.2	-4.1275 ug/L	-4.1275 ppb	15:36:49
3	Si 251.611†	571.9	-102.0	-3.2150 ug/L	-3.2150 ppb	15:36:49
3	Sn 189.927†	24.7	-11.3	-2.0956 ug/L	-2.0956 ppb	15:36:49
3	Sr 421.552†	33.0	-78.4	-0.6517 ug/L	-0.6517 ppb	15:35:11
3	Ti 334.940†	-1607.8	16.8	0.0227 ug/L	0.0227 ppb	15:36:29
3	Tl 190.801†	-4.4	17.0	5.4724 ug/L	5.4724 ppb	15:36:49
3	U 409.014†	-3713.9	-89.6	-2.8731 ug/L	-2.8731 ppb	15:36:29
3	V 292.402†	-1787.7	9.0	0.0691 ug/L	0.0691 ppb	15:36:29
3	Zn 213.857†	904.5	30.1	0.2971 ug/L	0.2971 ppb	15:36:49
3	SiO2†	577.9	-21.4	-1.4423 ug/L	-1.4423 ppb	15:37:04

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	809713.4	101.75 %	0.348			0.34%
Sc Radial	3948.1	99.3 %	0.29			0.29%
Y 371.029	657879.6	102.31 %	0.299			0.29%
Y RADIAL	4180.5	101.2 %	1.43			1.41%
Ag 328.068†	12.0	0.0646 ug/L	0.34244	0.0646 ppb	0.34244	529.89%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-10.8	-11.225 ug/L	12.9263	-11.225 ppb	12.9263	115.15%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.5	0.2127 ug/L	1.44895	0.2127 ppb	1.44895	681.11%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	133.6	3.1872 ug/L	0.18540	3.1872 ppb	0.18540	5.82%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	37.6	0.3166 ug/L	0.09584	0.3166 ppb	0.09584	30.27%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	219.1	0.0823 ug/L	0.00263	0.0823 ppb	0.00263	3.20%
QC value within limits for Be 313.107 Recovery = Not calculated						

Ca 317.933Radial†	-3.8	-7.3842 ug/L	8.27201	-7.3842 ppb	8.27201	112.02%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	31.1	0.3828 ug/L	0.06437	0.3828 ppb	0.06437	16.81%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	5.3	0.1143 ug/L	0.14843	0.1143 ppb	0.14843	129.84%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-212.1	-2.6219 ug/L	0.19040	-2.6219 ppb	0.19040	7.26%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-130.4	-0.4051 ug/L	0.16109	-0.4051 ppb	0.16109	39.76%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.5	5.3399 ug/L	15.30140	5.3399 ppb	15.30140	286.55%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	102.9	22.302 ug/L	2.7386	22.302 ppb	2.7386	12.28%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.2	48.398 ug/L	34.3562	48.398 ppb	34.3562	70.99%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	45.9	0.0519 ug/L	0.02612	0.0519 ppb	0.02612	50.35%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	7.1	0.5520 ug/L	0.38396	0.5520 ppb	0.38396	69.56%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-81.4	-28.547 ug/L	21.4207	-28.547 ppb	21.4207	75.04%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	10.1	0.2705 ug/L	0.19061	0.2705 ppb	0.19061	70.46%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-9.7	-5.2263 ug/L	5.32329	-5.2263 ppb	5.32329	101.86%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-6.8	-0.8819 ug/L	0.73236	-0.8819 ppb	0.73236	83.04%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-5.7	-7.4352 ug/L	4.88976	-7.4352 ppb	4.88976	65.76%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	1.7	0.5855 ug/L	1.46024	0.5855 ppb	1.46024	249.41%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.2	1.2995 ug/L	5.74066	1.2995 ppb	5.74066	441.75%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-93.4	-2.9495 ug/L	0.24178	-2.9495 ppb	0.24178	8.20%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-7.3	-1.3441 ug/L	0.70394	-1.3441 ppb	0.70394	52.37%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-63.2	-0.5255 ug/L	0.11700	-0.5255 ppb	0.11700	22.26%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	56.1	0.0893 ug/L	0.06776	0.0893 ppb	0.06776	75.86%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	14.5	4.6621 ug/L	0.79960	4.6621 ppb	0.79960	17.15%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-15.8	-0.5039 ug/L	4.31867	-0.5039 ppb	4.31867	857.10%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	31.7	0.2537 ug/L	0.16448	0.2537 ppb	0.16448	64.83%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	21.9	0.2169 ug/L	0.07061	0.2169 ppb	0.07061	32.56%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	-23.8	-1.6099 ug/L	1.81211	-1.6099 ppb	1.81211	112.56%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

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Analysis Begun

Start Time: 2/17/2010 15:54:01

Plasma On Time: 2/17/2010 14:48:31

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\021710A.sif

Batch ID:

Results Data Set: 021710B

Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 1

Sample ID: CCV

Date Collected: 2/17/2010 15:54:02

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	4136.8	4136.8	104 %		15:55:54
1	Y RADIAL	4265.2	4265.2	103.3 %		15:55:54
1	Al 396.153Radial†	4666.9	4627.2	4764.1 ug/L	4764.1 ppb	15:55:54
1	Ca 317.933Radial†	2618.2	2492.0	4839.2 ug/L	4839.2 ppb	15:56:14
1	Fe 238.204 Radial†	469.5	440.2	4843.2 ug/L	4843.2 ppb	15:56:14
1	K 766.490 Radial†	26287.4	22056.2	4772.7 ug/L	4772.7 ppb	15:55:54
1	Mg 279.077 IEC†	132.2	125.7	4911.7 ug/L	4911.7 ppb	15:56:14
1	Na 589.592 Radial†	28080.4	27091.1	9502.0 ug/L	9502.0 ppb	15:55:54
1	Sr 421.552†	60318.2	57858.7	480.95 ug/L	480.95 ppb	15:55:54
1	Sc 361.383	823470.5	823470.5	103.48 %		15:57:12
1	Y 371.029	657758.3	657758.3	102.30 %		15:57:12
1	Ag 328.068†	97328.0	93866.4	484.49 ug/L	484.49 ppb	15:57:17
1	As 188.979†	1168.5	1156.8	494.00 ug/L	494.00 ppb	15:57:37
1	B 249.677†	20730.5	19974.7	474.38 ug/L	474.38 ppb	15:57:17
1	Ba 233.527†	59814.6	57794.8	486.37 ug/L	486.37 ppb	15:57:17
1	Be 313.107†	1333945.7	1293283.7	485.33 ug/L	485.33 ppb	15:57:12
1	Cd 226.502†	40869.4	39702.4	489.69 ug/L	489.69 ppb	15:57:17
1	Co 228.616†	23841.3	23117.3	487.34 ug/L	487.34 ppb	15:57:17
1	Cr 267.716†	40938.3	38863.2	481.05 ug/L	481.05 ppb	15:57:17
1	Cu 324.752†	166308.2	152391.3	474.14 ug/L	474.14 ppb	15:57:17
1	Mn 257.610†	434357.7	419185.9	487.41 ug/L	487.41 ppb	15:57:12
1	Mo 202.031†	6439.5	6201.6	481.13 ug/L	481.13 ppb	15:57:37
1	Ni 231.604†	18985.7	18255.1	487.64 ug/L	487.64 ppb	15:57:17
1	P 214.914†	4829.7	4423.8	2330.1 ug/L	2330.1 ppb	15:57:37
1	Pb 220.353†	3843.6	3730.2	483.81 ug/L	483.81 ppb	15:57:37
1	S 181.975 Axial†	827.6	738.0	956.98 ug/L	956.98 ppb	15:57:37
1	Sb 206.836†	1444.9	1352.3	493.04 ug/L	493.04 ppb	15:57:37
1	Se 196.026†	854.4	852.1	505.18 ug/L	505.18 ppb	15:57:37
1	Si 251.611†	79365.3	76027.9	2388.8 ug/L	2388.8 ppb	15:57:17
1	Sn 189.927†	2719.9	2592.7	479.60 ug/L	479.60 ppb	15:57:37
1	Ti 334.940†	296448.6	288072.6	477.67 ug/L	477.67 ppb	15:57:17
1	Tl 190.801†	1547.7	1516.9	492.10 ug/L	492.10 ppb	15:57:37
1	U 409.014†	11952.0	15122.5	484.25 ug/L	484.25 ppb	15:57:17
1	V 292.402†	62716.6	62377.4	490.38 ug/L	490.38 ppb	15:57:17
1	Zn 213.857†	51207.6	48622.1	481.12 ug/L	481.12 ppb	15:57:17
1	SiO2†	79501.0	76233.7	5101.2 ug/L	5101.2 ppb	15:58:44
2	Sc Radial	4283.7	4283.7	108 %		15:56:19
2	Y RADIAL	4425.1	4425.1	107.1 %		15:56:19
2	Al 396.153Radial†	4436.1	4259.2	4383.3 ug/L	4383.3 ppb	15:56:19
2	Ca 317.933Radial†	2588.6	2378.3	4618.3 ug/L	4618.3 ppb	15:56:39
2	Fe 238.204 Radial†	462.7	418.4	4604.6 ug/L	4604.6 ppb	15:56:39
2	K 766.490 Radial†	25123.6	20110.0	4351.4 ug/L	4351.4 ppb	15:56:19
2	Mg 279.077 IEC†	136.0	124.9	4882.4 ug/L	4882.4 ppb	15:56:39
2	Na 589.592 Radial†	26664.9	24852.2	8716.8 ug/L	8716.8 ppb	15:56:19
2	Sr 421.552†	57207.5	52984.4	440.44 ug/L	440.44 ppb	15:56:19
2	Sc 361.383	816427.2	816427.2	102.60 %		15:57:43
2	Y 371.029	653060.0	653060.0	101.56 %		15:57:43

2	Ag 328.068†	97214.1	94566.7	488.02 ug/L	488.02 ppb	15:57:48
2	As 188.979†	1154.2	1152.6	492.18 ug/L	492.18 ppb	15:58:08
2	B 249.677†	20642.1	20061.3	476.47 ug/L	476.47 ppb	15:57:48
2	Ba 233.527†	59904.9	58381.5	491.29 ug/L	491.29 ppb	15:57:48
2	Be 313.107†	1325764.0	1296429.9	486.52 ug/L	486.52 ppb	15:57:43
2	Cd 226.502†	40904.6	40077.4	494.34 ug/L	494.34 ppb	15:57:48
2	Co 228.616†	23936.2	23408.5	493.48 ug/L	493.48 ppb	15:57:48
2	Cr 267.716†	41008.0	39272.4	486.11 ug/L	486.11 ppb	15:57:48
2	Cu 324.752†	166021.0	153497.9	477.57 ug/L	477.57 ppb	15:57:48
2	Mn 257.610†	430060.3	418618.4	486.73 ug/L	486.73 ppb	15:57:43
2	Mo 202.031†	6418.7	6235.1	483.71 ug/L	483.71 ppb	15:58:08
2	Ni 231.604†	18990.1	18417.6	491.98 ug/L	491.98 ppb	15:57:48
2	P 214.914†	4840.3	4474.4	2357.4 ug/L	2357.4 ppb	15:58:08
2	Pb 220.353†	3860.7	3778.9	490.05 ug/L	490.05 ppb	15:58:08
2	S 181.975 Axial†	836.7	753.8	977.52 ug/L	977.52 ppb	15:58:08
2	Sb 206.836†	1464.0	1383.0	504.05 ug/L	504.05 ppb	15:58:08
2	Se 196.026†	854.7	859.5	508.77 ug/L	508.77 ppb	15:58:08
2	Si 251.611†	79331.3	76656.4	2408.6 ug/L	2408.6 ppb	15:57:48
2	Sn 189.927†	2746.9	2641.7	488.66 ug/L	488.66 ppb	15:58:08
2	Ti 334.940†	296484.6	290579.0	481.80 ug/L	481.80 ppb	15:57:48
2	Tl 190.801†	1557.4	1539.3	499.32 ug/L	499.32 ppb	15:58:08
2	U 409.014†	11817.1	15090.7	483.24 ug/L	483.24 ppb	15:57:48
2	V 292.402†	62664.7	62849.7	494.11 ug/L	494.11 ppb	15:57:48
2	Zn 213.857†	51221.5	49062.5	485.52 ug/L	485.52 ppb	15:57:48
2	SiO2†	79149.3	76553.7	5122.5 ug/L	5122.5 ppb	15:58:49
3	Sc Radial	4045.8	4045.8	102 %		15:56:44
3	Y RADIAL	4219.3	4219.3	102.1 %		15:56:44
3	Al 396.153Radial†	4570.0	4632.9	4770.6 ug/L	4770.6 ppb	15:56:44
3	Ca 317.933Radial†	2580.3	2511.5	4876.9 ug/L	4876.9 ppb	15:57:04
3	Fe 238.204 Radial†	462.1	443.1	4875.2 ug/L	4875.2 ppb	15:57:04
3	K 766.490 Radial†	25799.2	22145.2	4792.0 ug/L	4792.0 ppb	15:56:44
3	Mg 279.077 IEC†	133.9	130.2	5088.9 ug/L	5088.9 ppb	15:57:04
3	Na 589.592 Radial†	27480.7	27109.4	9508.5 ug/L	9508.5 ppb	15:56:44
3	Sr 421.552†	58833.6	57704.8	479.68 ug/L	479.68 ppb	15:56:44
3	Sc 361.383	837514.0	837514.0	105.25 %		15:58:14
3	Y 371.029	668329.3	668329.3	103.94 %		15:58:14
3	Ag 328.068†	97534.5	92485.4	477.39 ug/L	477.39 ppb	15:58:19
3	As 188.979†	1158.9	1128.8	482.10 ug/L	482.10 ppb	15:58:39
3	B 249.677†	20821.9	19725.6	468.45 ug/L	468.45 ppb	15:58:19
3	Ba 233.527†	60079.9	57077.7	480.34 ug/L	480.34 ppb	15:58:19
3	Be 313.107†	1364602.4	1300797.1	488.13 ug/L	488.13 ppb	15:58:14
3	Cd 226.502†	41117.4	39275.8	484.42 ug/L	484.42 ppb	15:58:19
3	Co 228.616†	23958.7	22842.5	481.54 ug/L	481.54 ppb	15:58:19
3	Cr 267.716†	41131.5	38383.4	475.11 ug/L	475.11 ppb	15:58:19
3	Cu 324.752†	166468.2	149848.6	466.23 ug/L	466.23 ppb	15:58:19
3	Mn 257.610†	442016.0	419424.2	487.68 ug/L	487.68 ppb	15:58:14
3	Mo 202.031†	6401.6	6061.3	470.26 ug/L	470.26 ppb	15:58:39
3	Ni 231.604†	19079.0	18036.1	481.79 ug/L	481.79 ppb	15:58:19
3	P 214.914†	4800.1	4317.4	2273.4 ug/L	2273.4 ppb	15:58:39
3	Pb 220.353†	3811.6	3637.5	471.80 ug/L	471.80 ppb	15:58:39
3	S 181.975 Axial†	828.7	725.7	940.92 ug/L	940.92 ppb	15:58:39
3	Sb 206.836†	1443.3	1327.4	483.95 ug/L	483.95 ppb	15:58:39
3	Se 196.026†	861.4	844.9	501.15 ug/L	501.15 ppb	15:58:39
3	Si 251.611†	79549.9	74917.3	2353.9 ug/L	2353.9 ppb	15:58:19
3	Sn 189.927†	2731.3	2559.4	473.45 ug/L	473.45 ppb	15:58:39
3	Ti 334.940†	296967.6	283762.1	470.52 ug/L	470.52 ppb	15:58:19
3	Tl 190.801†	1541.3	1485.8	482.06 ug/L	482.06 ppb	15:58:39
3	U 409.014†	12044.0	15016.3	480.85 ug/L	480.85 ppb	15:58:19
3	V 292.402†	62986.1	61617.2	484.33 ug/L	484.33 ppb	15:58:19
3	Zn 213.857†	51405.3	47980.2	474.75 ug/L	474.75 ppb	15:58:19
3	SiO2†	79081.3	74546.8	4988.3 ug/L	4988.3 ppb	15:58:55

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	825803.9	103.78 %		1.349			1.30%
Sc Radial	4155.4	105 %		3.0			2.89%
Y 371.029	659715.9	102.60 %		1.216			1.19%
Y RADIAL	4303.2	104.2 %		2.62			2.51%
Ag 328.068†	93639.5	483.30 ug/L		5.415	483.30 ppb	5.415	1.12%

QC value within limits for Ag 328.068 Recovery = 96.66%					
Al 396.153Radial†	4506.4	4639.4 ug/L	221.77	4639.4 ppb	221.77 4.78%
QC value within limits for Al 396.153Radial Recovery = 92.79%					
As 188.979†	1146.1	489.43 ug/L	6.415	489.43 ppb	6.415 1.31%
QC value within limits for As 188.979 Recovery = 97.89%					
B 249.677†	19920.5	473.10 ug/L	4.160	473.10 ppb	4.160 0.88%
QC value within limits for B 249.677 Recovery = 94.62%					
Ba 233.527†	57751.3	486.00 ug/L	5.488	486.00 ppb	5.488 1.13%
QC value within limits for Ba 233.527 Recovery = 97.20%					
Be 313.107†	1296836.9	486.66 ug/L	1.404	486.66 ppb	1.404 0.29%
QC value within limits for Be 313.107 Recovery = 97.33%					
Ca 317.933Radial†	2460.6	4778.1 ug/L	139.68	4778.1 ppb	139.68 2.92%
QC value within limits for Ca 317.933Radial Recovery = 95.56%					
Cd 226.502†	39685.2	489.48 ug/L	4.965	489.48 ppb	4.965 1.01%
QC value within limits for Cd 226.502 Recovery = 97.90%					
Co 228.616†	23122.8	487.45 ug/L	5.972	487.45 ppb	5.972 1.23%
QC value within limits for Co 228.616 Recovery = 97.49%					
Cr 267.716†	38839.6	480.75 ug/L	5.504	480.75 ppb	5.504 1.14%
QC value within limits for Cr 267.716 Recovery = 96.15%					
Cu 324.752†	151912.6	472.64 ug/L	5.815	472.64 ppb	5.815 1.23%
QC value within limits for Cu 324.752 Recovery = 94.53%					
Fe 238.204 Radial†	433.9	4774.3 ug/L	147.87	4774.3 ppb	147.87 3.10%
QC value within limits for Fe 238.204 Radial Recovery = 95.49%					
K 766.490 Radial†	21437.1	4638.7 ug/L	248.99	4638.7 ppb	248.99 5.37%
QC value within limits for K 766.490 Radial Recovery = 92.77%					
Mg 279.077 IEC†	126.9	4961.0 ug/L	111.71	4961.0 ppb	111.71 2.25%
QC value within limits for Mg 279.077 IEC Recovery = 99.22%					
Mn 257.610†	419076.1	487.27 ug/L	0.492	487.27 ppb	0.492 0.10%
QC value within limits for Mn 257.610 Recovery = 97.45%					
Mo 202.031†	6166.0	478.37 ug/L	7.137	478.37 ppb	7.137 1.49%
QC value within limits for Mo 202.031 Recovery = 95.67%					
Na 589.592 Radial†	26350.9	9242.4 ug/L	455.24	9242.4 ppb	455.24 4.93%
QC value within limits for Na 589.592 Radial Recovery = 92.42%					
Ni 231.604†	18236.3	487.14 ug/L	5.114	487.14 ppb	5.114 1.05%
QC value within limits for Ni 231.604 Recovery = 97.43%					
P 214.914†	4405.2	2320.3 ug/L	42.86	2320.3 ppb	42.86 1.85%
QC value within limits for P 214.914 Recovery = 92.81%					
Pb 220.353†	3715.5	481.88 ug/L	9.274	481.88 ppb	9.274 1.92%
QC value within limits for Pb 220.353 Recovery = 96.38%					
S 181.975 Axial†	739.2	958.47 ug/L	18.345	958.47 ppb	18.345 1.91%
QC value within limits for S 181.975 Axial Recovery = 95.85%					
Sb 206.836†	1354.2	493.68 ug/L	10.063	493.68 ppb	10.063 2.04%
QC value within limits for Sb 206.836 Recovery = 98.74%					
Se 196.026†	852.2	505.03 ug/L	3.809	505.03 ppb	3.809 0.75%
QC value within limits for Se 196.026 Recovery = 101.01%					
Si 251.611†	75867.2	2383.8 ug/L	27.65	2383.8 ppb	27.65 1.16%
QC value within limits for Si 251.611 Recovery = 95.35%					
Sn 189.927†	2597.9	480.57 ug/L	7.649	480.57 ppb	7.649 1.59%
QC value within limits for Sn 189.927 Recovery = 96.11%					
Sr 421.552†	56182.7	467.02 ug/L	23.033	467.02 ppb	23.033 4.93%
QC value within limits for Sr 421.552 Recovery = 93.40%					
Ti 334.940†	287471.3	476.66 ug/L	5.709	476.66 ppb	5.709 1.20%
QC value within limits for Ti 334.940 Recovery = 95.33%					
Tl 190.801†	1514.0	491.16 ug/L	8.669	491.16 ppb	8.669 1.76%
QC value within limits for Tl 190.801 Recovery = 98.23%					
U 409.014†	15076.5	482.78 ug/L	1.748	482.78 ppb	1.748 0.36%
QC value within limits for U 409.014 Recovery = 96.56%					
V 292.402†	62281.4	489.61 ug/L	4.934	489.61 ppb	4.934 1.01%
QC value within limits for V 292.402 Recovery = 97.92%					
Zn 213.857†	48554.9	480.47 ug/L	5.415	480.47 ppb	5.415 1.13%
QC value within limits for Zn 213.857 Recovery = 96.09%					
SiO2†	75778.1	5070.7 ug/L	72.14	5070.7 ppb	72.14 1.42%
QC value within limits for SiO2 Recovery = 94.82%					
All analyte(s) passed QC.					

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/17/2010 16:01:05

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	4140.3	4140.3	104 %		16:02:56
1	Y RADIAL	4293.2	4293.2	103.9 %		16:02:56
1	Al 396.153Radial†	-126.3	20.6	21.246 ug/L	21.246 ppb	16:02:56
1	Ca 317.933Radial†	21.3	-3.8	-7.3127 ug/L	-7.3127 ppb	16:03:16
1	Fe 238.204 Radial†	12.8	1.3	14.037 ug/L	14.037 ppb	16:03:16
1	K 766.490 Radial†	3158.0	-175.5	-38.014 ug/L	-38.014 ppb	16:02:56
1	Mg 279.077 IEC†	1.6	0.2	6.8071 ug/L	6.8071 ppb	16:03:16
1	Na 589.592 Radial†	-143.8	-34.4	-12.076 ug/L	-12.076 ppb	16:02:56
1	Sr 421.552†	41.8	-71.5	-0.5946 ug/L	-0.5946 ppb	16:02:56
1	Sc 361.383	803720.5	803720.5	101.00 %		16:04:13
1	Y 371.029	652264.3	652264.3	101.44 %		16:04:13
1	Ag 328.068†	277.4	89.0	0.4594 ug/L	0.4594 ppb	16:04:13
1	As 188.979†	-28.6	-0.7	-0.2982 ug/L	-0.2982 ppb	16:04:33
1	B 249.677†	77.8	19.0	0.4488 ug/L	0.4488 ppb	16:04:13
1	Ba 233.527†	69.5	62.4	0.5251 ug/L	0.5251 ppb	16:04:33
1	Be 313.107†	-3692.5	582.5	0.2189 ug/L	0.2189 ppb	16:04:13
1	Cd 226.502†	-156.9	53.3	0.6569 ug/L	0.6569 ppb	16:04:33
1	Co 228.616†	-58.4	20.6	0.4409 ug/L	0.4409 ppb	16:04:33
1	Cr 267.716†	425.9	-275.5	-3.4072 ug/L	-3.4072 ppb	16:04:33
1	Cu 324.752†	8394.1	-8.0	-0.0262 ug/L	-0.0262 ppb	16:04:13
1	Mn 257.610†	845.8	286.0	0.3335 ug/L	0.3335 ppb	16:04:33
1	Mo 202.031†	52.0	30.4	2.3593 ug/L	2.3593 ppb	16:04:33
1	Ni 231.604†	115.0	22.3	0.5956 ug/L	0.5956 ppb	16:04:33
1	P 214.914†	253.9	8.1	4.4056 ug/L	4.4056 ppb	16:04:33
1	Pb 220.353†	-23.8	-7.6	-0.9684 ug/L	-0.9684 ppb	16:04:33
1	S 181.975 Axial†	59.1	-3.2	-4.1286 ug/L	-4.1286 ppb	16:04:33
1	Sb 206.836†	52.9	8.4	2.9519 ug/L	2.9519 ppb	16:04:33
1	Se 196.026†	-24.2	2.5	1.4825 ug/L	1.4825 ppb	16:04:33
1	Si 251.611†	575.0	-96.7	-3.0741 ug/L	-3.0741 ppb	16:04:33
1	Sn 189.927†	19.3	-16.6	-3.0726 ug/L	-3.0726 ppb	16:04:33
1	Ti 334.940†	-1410.3	206.0	0.3399 ug/L	0.3399 ppb	16:04:13
1	Tl 190.801†	-15.7	5.8	1.8744 ug/L	1.8744 ppb	16:04:33
1	U 409.014†	-3496.1	111.4	3.5848 ug/L	3.5848 ppb	16:04:13
1	V 292.402†	-1749.7	39.5	0.3460 ug/L	0.3460 ppb	16:04:13
1	Zn 213.857†	968.3	96.8	0.9609 ug/L	0.9609 ppb	16:04:33
1	SiO2†	608.6	11.3	0.6964 ug/L	0.6964 ppb	16:05:29
2	Sc Radial	4099.5	4099.5	103 %		16:03:21
2	Y RADIAL	4270.1	4270.1	103.4 %		16:03:21
2	Al 396.153Radial†	-143.0	3.2	3.3110 ug/L	3.3110 ppb	16:03:21
2	Ca 317.933Radial†	27.3	2.2	4.2668 ug/L	4.2668 ppb	16:03:41
2	Fe 238.204 Radial†	13.9	2.4	26.389 ug/L	26.389 ppb	16:03:41
2	K 766.490 Radial†	3304.6	-3.1	-0.6670 ug/L	-0.6670 ppb	16:03:21
2	Mg 279.077 IEC†	1.6	0.2	9.2561 ug/L	9.2561 ppb	16:03:41
2	Na 589.592 Radial†	-135.3	-27.5	-9.6612 ug/L	-9.6612 ppb	16:03:21
2	Sr 421.552†	44.9	-68.1	-0.5661 ug/L	-0.5661 ppb	16:03:21
2	Sc 361.383	813455.9	813455.9	102.22 %		16:04:39
2	Y 371.029	659478.1	659478.1	102.56 %		16:04:39
2	Ag 328.068†	141.7	-47.0	-0.2289 ug/L	-0.2289 ppb	16:04:39
2	As 188.979†	-33.4	-5.0	-2.1046 ug/L	-2.1046 ppb	16:04:59
2	B 249.677†	-23.3	-80.9	-1.9342 ug/L	-1.9342 ppb	16:04:39
2	Ba 233.527†	81.1	72.9	0.6152 ug/L	0.6152 ppb	16:04:59
2	Be 313.107†	-3611.0	706.0	0.2648 ug/L	0.2648 ppb	16:04:39
2	Cd 226.502†	-175.0	37.5	0.4594 ug/L	0.4594 ppb	16:04:59
2	Co 228.616†	-63.5	16.3	0.3477 ug/L	0.3477 ppb	16:04:59
2	Cr 267.716†	432.2	-274.4	-3.3901 ug/L	-3.3901 ppb	16:04:59
2	Cu 324.752†	8583.4	77.6	0.2426 ug/L	0.2426 ppb	16:04:39
2	Mn 257.610†	806.9	237.9	0.2787 ug/L	0.2787 ppb	16:04:59
2	Mo 202.031†	34.4	12.6	0.9766 ug/L	0.9766 ppb	16:04:59
2	Ni 231.604†	91.4	-2.2	-0.0580 ug/L	-0.0580 ppb	16:04:59

2	P 214.914†	248.1	-0.6	-0.4312 ug/L	-0.4312 ppb	16:04:59
2	Pb 220.353†	-57.6	-40.3	-5.2138 ug/L	-5.2138 ppb	16:04:59
2	S 181.975 Axial†	48.1	-14.6	-18.957 ug/L	-18.957 ppb	16:04:59
2	Sb 206.836†	45.8	0.8	0.2805 ug/L	0.2805 ppb	16:04:59
2	Se 196.026†	-22.8	4.1	2.4524 ug/L	2.4524 ppb	16:04:59
2	Si 251.611†	556.3	-121.7	-3.8459 ug/L	-3.8459 ppb	16:04:59
2	Sn 189.927†	27.8	-8.5	-1.5739 ug/L	-1.5739 ppb	16:04:59
2	Ti 334.940†	-1515.3	120.0	0.1998 ug/L	0.1998 ppb	16:04:39
2	Tl 190.801†	-14.4	7.2	2.3344 ug/L	2.3344 ppb	16:04:59
2	U 409.014†	-3633.3	18.6	0.6029 ug/L	0.6029 ppb	16:04:39
2	V 292.402†	-1653.0	154.8	1.2136 ug/L	1.2136 ppb	16:04:39
2	Zn 213.857†	962.6	79.7	0.7925 ug/L	0.7925 ppb	16:04:59
2	SiO2†	568.4	-35.2	-2.3905 ug/L	-2.3905 ppb	16:05:34
3	Sc Radial	4005.1	4005.1	101 %		16:03:46
3	Y RADIAL	4166.4	4166.4	100.9 %		16:03:46
3	Al 396.153Radial†	-150.7	-7.7	-7.9970 ug/L	-7.9970 ppb	16:03:46
3	Ca 317.933Radial†	18.2	-6.2	-12.106 ug/L	-12.106 ppb	16:04:06
3	Fe 238.204 Radial†	15.4	4.3	46.924 ug/L	46.924 ppb	16:04:06
3	K 766.490 Radial†	3338.3	105.9	22.942 ug/L	22.942 ppb	16:03:46
3	Mg 279.077 IEC†	3.4	2.1	80.686 ug/L	80.686 ppb	16:04:06
3	Na 589.592 Radial†	-84.6	19.7	6.9213 ug/L	6.9213 ppb	16:03:46
3	Sr 421.552†	39.1	-72.8	-0.6052 ug/L	-0.6052 ppb	16:03:46
3	Sc 361.383	821246.6	821246.6	103.20 %		16:05:04
3	Y 371.029	664075.7	664075.7	103.28 %		16:05:04
3	Ag 328.068†	171.0	-20.0	-0.0911 ug/L	-0.0911 ppb	16:05:04
3	As 188.979†	-30.3	-1.7	-0.7138 ug/L	-0.7138 ppb	16:05:24
3	B 249.677†	22.2	-36.5	-0.8794 ug/L	-0.8794 ppb	16:05:04
3	Ba 233.527†	51.7	43.6	0.3678 ug/L	0.3678 ppb	16:05:24
3	Be 313.107†	-3859.5	498.8	0.1869 ug/L	0.1869 ppb	16:05:04
3	Cd 226.502†	-175.2	38.9	0.4753 ug/L	0.4753 ppb	16:05:24
3	Co 228.616†	-57.0	23.2	0.4916 ug/L	0.4916 ppb	16:05:24
3	Cr 267.716†	442.0	-268.9	-3.3248 ug/L	-3.3248 ppb	16:05:24
3	Cu 324.752†	8589.5	3.9	0.0124 ug/L	0.0124 ppb	16:05:04
3	Mn 257.610†	759.3	184.3	0.2155 ug/L	0.2155 ppb	16:05:24
3	Mo 202.031†	26.8	4.9	0.3801 ug/L	0.3801 ppb	16:05:24
3	Ni 231.604†	99.1	4.4	0.1186 ug/L	0.1186 ppb	16:05:24
3	P 214.914†	253.2	2.0	1.0336 ug/L	1.0336 ppb	16:05:24
3	Pb 220.353†	-21.5	-4.9	-0.6378 ug/L	-0.6378 ppb	16:05:24
3	S 181.975 Axial†	52.4	-10.9	-14.174 ug/L	-14.174 ppb	16:05:24
3	Sb 206.836†	49.7	4.2	1.4598 ug/L	1.4598 ppb	16:05:24
3	Se 196.026†	-24.3	3.0	1.8471 ug/L	1.8471 ppb	16:05:24
3	Si 251.611†	569.3	-114.3	-3.6040 ug/L	-3.6040 ppb	16:05:24
3	Sn 189.927†	26.1	-10.4	-1.9245 ug/L	-1.9245 ppb	16:05:24
3	Ti 334.940†	-1609.6	42.7	0.0620 ug/L	0.0620 ppb	16:05:04
3	Tl 190.801†	-20.2	1.8	0.5726 ug/L	0.5726 ppb	16:05:24
3	U 409.014†	-3560.1	123.3	3.9639 ug/L	3.9639 ppb	16:05:04
3	V 292.402†	-1828.4	0.3	0.0110 ug/L	0.0110 ppb	16:05:04
3	Zn 213.857†	960.8	69.1	0.6820 ug/L	0.6820 ppb	16:05:24
3	SiO2†	566.6	-42.2	-2.8444 ug/L	-2.8444 ppb	16:05:39

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	812807.7	102.14 %	1.103			1.08%
Sc Radial	4081.6	103 %	1.7			1.70%
Y 371.029	658606.0	102.43 %	0.926			0.90%
Y RADIAL	4243.3	102.7 %	1.63			1.59%
Ag 328.068†	7.3	0.0465 ug/L	0.36419	0.0465 ppb	0.36419	783.55%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	5.4	5.5200 ug/L	14.74604	5.5200 ppb	14.74604	267.14%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.5	-1.0389 ug/L	0.94602	-1.0389 ppb	0.94602	91.06%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-32.8	-0.7883 ug/L	1.19413	-0.7883 ppb	1.19413	151.48%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	59.6	0.5027 ug/L	0.12522	0.5027 ppb	0.12522	24.91%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	595.8	0.2235 ug/L	0.03915	0.2235 ppb	0.03915	17.51%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-2.6	-5.0505 ug/L	8.41736	-5.0505 ppb	8.41736	166.66%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	43.2	0.5305 ug/L	0.10976	0.5305 ppb	0.10976	20.69%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	20.1	0.4267 ug/L	0.07299	0.4267 ppb	0.07299	17.10%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-272.9	-3.3740 ug/L	0.04347	-3.3740 ppb	0.04347	1.29%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	24.5	0.0763 ug/L	0.14533	0.0763 ppb	0.14533	190.52%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	2.7	29.117 ug/L	16.6123	29.117 ppb	16.6123	57.05%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	-24.2	-5.2465 ug/L	30.73519	-5.2465 ppb	30.73519	585.82%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	0.8	32.250 ug/L	41.9649	32.250 ppb	41.9649	130.12%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	236.1	0.2759 ug/L	0.05905	0.2759 ppb	0.05905	21.40%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	16.0	1.2386 ug/L	1.01527	1.2386 ppb	1.01527	81.97%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-14.1	-4.9387 ug/L	10.34174	-4.9387 ppb	10.34174	209.40%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	8.2	0.2187 ug/L	0.33811	0.2187 ppb	0.33811	154.57%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	3.2	1.6693 ug/L	2.48025	1.6693 ppb	2.48025	148.58%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	-17.6	-2.2733 ug/L	2.55188	-2.2733 ppb	2.55188	112.25%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	-9.6	-12.420 ug/L	7.5681	-12.420 ppb	7.5681	60.94%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	4.5	1.5641 ug/L	1.33873	1.5641 ppb	1.33873	85.59%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	3.2	1.9273 ug/L	0.48987	1.9273 ppb	0.48987	25.42%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-110.9	-3.5080 ug/L	0.39474	-3.5080 ppb	0.39474	11.25%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	-11.8	-2.1903 ug/L	0.78395	-2.1903 ppb	0.78395	35.79%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-70.8	-0.5886 ug/L	0.02025	-0.5886 ppb	0.02025	3.44%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	122.9	0.2006 ug/L	0.13892	0.2006 ppb	0.13892	69.27%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	4.9	1.5938 ug/L	0.91382	1.5938 ppb	0.91382	57.34%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	84.4	2.7172 ug/L	1.84082	2.7172 ppb	1.84082	67.75%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	64.9	0.5235 ug/L	0.62063	0.5235 ppb	0.62063	118.55%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	81.9	0.8118 ug/L	0.14048	0.8118 ppb	0.14048	17.30%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		-22.0	-1.5128 ug/L	1.92664	-1.5128 ppb	1.92664	127.35%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 2/17/2010 17:15:51

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4051.0	4051.0	102 %		17:17:42
1	Y RADIAL	4206.0	4206.0	101.8 %		17:17:42
1	Al 396.153Radial†	4644.4	4700.1	4839.2 ug/L	4839.2 ppb	17:17:42
1	Ca 317.933Radial†	2616.9	2544.1	4940.3 ug/L	4940.3 ppb	17:18:02
1	Fe 238.204 Radial†	470.5	450.7	4958.9 ug/L	4958.9 ppb	17:18:02
1	K 766.490 Radial†	25766.2	22080.1	4777.7 ug/L	4777.7 ppb	17:17:42
1	Mg 279.077 IEC†	129.8	126.0	4926.1 ug/L	4926.1 ppb	17:18:02
1	Na 589.592 Radial†	28630.6	28203.0	9892.0 ug/L	9892.0 ppb	17:17:42
1	Sr 421.552†	60544.4	59309.2	493.01 ug/L	493.01 ppb	17:17:42
1	Sc 361.383	819251.6	819251.6	102.95 %		17:19:01
1	Y 371.029	655585.0	655585.0	101.96 %		17:19:01
1	Ag 328.068†	97281.3	94305.3	486.79 ug/L	486.79 ppb	17:19:01
1	As 188.979†	1165.1	1159.3	495.18 ug/L	495.18 ppb	17:19:21
1	B 249.677†	20104.3	19469.6	462.31 ug/L	462.31 ppb	17:19:01
1	Ba 233.527†	59830.5	58108.0	489.01 ug/L	489.01 ppb	17:19:01
1	Be 313.107†	1331810.1	1297847.6	487.07 ug/L	487.07 ppb	17:19:01
1	Cd 226.502†	40087.2	39146.0	482.81 ug/L	482.81 ppb	17:19:21
1	Co 228.616†	23707.4	23105.8	487.09 ug/L	487.09 ppb	17:19:21
1	Cr 267.716†	40737.1	38871.5	481.16 ug/L	481.16 ppb	17:19:01
1	Cu 324.752†	167661.0	154532.9	480.81 ug/L	480.81 ppb	17:19:01
1	Mn 257.610†	433468.4	420483.6	488.93 ug/L	488.93 ppb	17:19:01
1	Mo 202.031†	6511.7	6303.8	489.07 ug/L	489.07 ppb	17:19:21
1	Ni 231.604†	18840.4	18208.4	486.40 ug/L	486.40 ppb	17:19:21
1	P 214.914†	4836.0	4454.0	2345.3 ug/L	2345.3 ppb	17:19:21
1	Pb 220.353†	3876.9	3781.7	490.48 ug/L	490.48 ppb	17:19:21
1	S 181.975 Axial†	820.7	735.5	953.69 ug/L	953.69 ppb	17:19:21
1	Sb 206.836†	1455.0	1369.3	499.18 ug/L	499.18 ppb	17:19:21
1	Se 196.026†	862.3	864.0	512.42 ug/L	512.42 ppb	17:19:21
1	Si 251.611†	79502.3	76556.0	2405.3 ug/L	2405.3 ppb	17:19:01
1	Sn 189.927†	2724.9	2611.1	483.01 ug/L	483.01 ppb	17:19:21
1	Ti 334.940†	303626.9	296520.2	491.70 ug/L	491.70 ppb	17:19:01
1	Tl 190.801†	1558.7	1535.4	498.18 ug/L	498.18 ppb	17:19:21
1	U 409.014†	11493.1	14736.4	471.83 ug/L	471.83 ppb	17:19:01
1	V 292.402†	62640.2	62615.3	492.29 ug/L	492.29 ppb	17:19:01
1	Zn 213.857†	51261.0	48928.7	484.17 ug/L	484.17 ppb	17:19:01
1	SiO2†	81753.4	78817.2	5274.3 ug/L	5274.3 ppb	17:20:21
2	Sc Radial	4075.1	4075.1	102 %		17:18:07
2	Y RADIAL	4226.2	4226.2	102.3 %		17:18:07
2	Al 396.153Radial†	4665.7	4694.0	4833.1 ug/L	4833.1 ppb	17:18:07
2	Ca 317.933Radial†	2619.5	2531.5	4915.8 ug/L	4915.8 ppb	17:18:27
2	Fe 238.204 Radial†	465.0	442.6	4869.7 ug/L	4869.7 ppb	17:18:27
2	K 766.490 Radial†	25940.5	22100.8	4782.2 ug/L	4782.2 ppb	17:18:07
2	Mg 279.077 IEC†	133.7	129.1	5046.0 ug/L	5046.0 ppb	17:18:27
2	Na 589.592 Radial†	28483.6	27893.7	9783.5 ug/L	9783.5 ppb	17:18:07
2	Sr 421.552†	60638.6	59050.2	490.86 ug/L	490.86 ppb	17:18:07
2	Sc 361.383	825429.4	825429.4	103.73 %		17:19:29
2	Y 371.029	660497.7	660497.7	102.72 %		17:19:29
2	Ag 328.068†	98034.8	94324.5	486.87 ug/L	486.87 ppb	17:19:29
2	As 188.979†	1154.7	1140.8	487.34 ug/L	487.34 ppb	17:19:49
2	B 249.677†	20426.6	19634.2	466.27 ug/L	466.27 ppb	17:19:29
2	Ba 233.527†	60299.2	58124.9	489.15 ug/L	489.15 ppb	17:19:29
2	Be 313.107†	1345628.8	1301487.7	488.44 ug/L	488.44 ppb	17:19:29
2	Cd 226.502†	40100.8	38867.6	479.38 ug/L	479.38 ppb	17:19:49
2	Co 228.616†	23662.0	22889.7	482.52 ug/L	482.52 ppb	17:19:49
2	Cr 267.716†	41127.1	38951.3	482.15 ug/L	482.15 ppb	17:19:29
2	Cu 324.752†	169190.1	154788.2	481.60 ug/L	481.60 ppb	17:19:29
2	Mn 257.610†	436805.2	420549.3	488.99 ug/L	488.99 ppb	17:19:29
2	Mo 202.031†	6505.7	6250.7	484.94 ug/L	484.94 ppb	17:19:49
2	Ni 231.604†	18834.6	18065.9	482.59 ug/L	482.59 ppb	17:19:49

2	P 214.914†	4838.0	4420.7	2327.0 ug/L	2327.0 ppb	17:19:49
2	Pb 220.353†	3889.2	3765.3	488.37 ug/L	488.37 ppb	17:19:49
2	S 181.975 Axial†	819.7	728.6	944.69 ug/L	944.69 ppb	17:19:49
2	Sb 206.836†	1452.8	1356.6	494.61 ug/L	494.61 ppb	17:19:49
2	Se 196.026†	850.7	846.6	502.11 ug/L	502.11 ppb	17:19:49
2	Si 251.611†	80174.1	76625.6	2407.6 ug/L	2407.6 ppb	17:19:29
2	Sn 189.927†	2733.1	2599.1	480.80 ug/L	480.80 ppb	17:19:49
2	Ti 334.940†	306295.8	296885.8	492.30 ug/L	492.30 ppb	17:19:29
2	Tl 190.801†	1535.8	1501.9	487.40 ug/L	487.40 ppb	17:19:49
2	U 409.014†	11499.9	14659.3	469.36 ug/L	469.36 ppb	17:19:29
2	V 292.402†	63392.5	62885.3	494.33 ug/L	494.33 ppb	17:19:29
2	Zn 213.857†	51652.3	48933.3	484.25 ug/L	484.25 ppb	17:19:29
2	SiO2†	80059.4	76589.7	5124.9 ug/L	5124.9 ppb	17:20:27
3	Sc Radial	4154.1	4154.1	104 %		17:18:33
3	Y RADIAL	4310.7	4310.7	104.3 %		17:18:33
3	Al 396.153Radial†	4792.7	4728.9	4869.0 ug/L	4869.0 ppb	17:18:33
3	Ca 317.933Radial†	2614.1	2477.7	4811.3 ug/L	4811.3 ppb	17:18:53
3	Fe 238.204 Radial†	467.0	435.9	4796.3 ug/L	4796.3 ppb	17:18:53
3	K 766.490 Radial†	26217.4	21884.0	4735.3 ug/L	4735.3 ppb	17:18:33
3	Mg 279.077 IEC†	128.7	121.8	4760.9 ug/L	4760.9 ppb	17:18:53
3	Na 589.592 Radial†	29056.0	27912.5	9790.2 ug/L	9790.2 ppb	17:18:33
3	Sr 421.552†	61837.8	59071.9	491.04 ug/L	491.04 ppb	17:18:33
3	Sc 361.383	821974.2	821974.2	103.30 %		17:19:56
3	Y 371.029	658253.2	658253.2	102.37 %		17:19:56
3	Ag 328.068†	97500.4	94204.4	486.22 ug/L	486.22 ppb	17:19:56
3	As 188.979†	1160.4	1151.0	491.62 ug/L	491.62 ppb	17:20:16
3	B 249.677†	20345.6	19638.5	466.37 ug/L	466.37 ppb	17:19:56
3	Ba 233.527†	60018.4	58097.3	488.91 ug/L	488.91 ppb	17:19:56
3	Be 313.107†	1339659.8	1301162.1	488.31 ug/L	488.31 ppb	17:19:56
3	Cd 226.502†	40364.7	39285.7	484.55 ug/L	484.55 ppb	17:20:16
3	Co 228.616†	23835.6	23153.7	488.10 ug/L	488.10 ppb	17:20:16
3	Cr 267.716†	40887.3	38885.8	481.33 ug/L	481.33 ppb	17:19:56
3	Cu 324.752†	168515.1	154820.4	481.70 ug/L	481.70 ppb	17:19:56
3	Mn 257.610†	434507.4	420094.8	488.47 ug/L	488.47 ppb	17:19:56
3	Mo 202.031†	6540.3	6310.5	489.57 ug/L	489.57 ppb	17:20:16
3	Ni 231.604†	19001.1	18303.4	488.93 ug/L	488.93 ppb	17:20:16
3	P 214.914†	4870.0	4471.3	2354.8 ug/L	2354.8 ppb	17:20:16
3	Pb 220.353†	3905.9	3797.3	492.53 ug/L	492.53 ppb	17:20:16
3	S 181.975 Axial†	826.5	738.5	957.50 ug/L	957.50 ppb	17:20:16
3	Sb 206.836†	1462.8	1372.2	500.26 ug/L	500.26 ppb	17:20:16
3	Se 196.026†	861.0	860.0	509.61 ug/L	509.61 ppb	17:20:16
3	Si 251.611†	79761.4	76551.0	2405.2 ug/L	2405.2 ppb	17:19:56
3	Sn 189.927†	2747.2	2623.8	485.37 ug/L	485.37 ppb	17:20:16
3	Ti 334.940†	304730.2	296611.4	491.85 ug/L	491.85 ppb	17:19:56
3	Tl 190.801†	1550.7	1522.6	494.04 ug/L	494.04 ppb	17:20:16
3	U 409.014†	11549.9	14754.3	472.42 ug/L	472.42 ppb	17:19:56
3	V 292.402†	62790.2	62559.1	491.88 ug/L	491.88 ppb	17:19:56
3	Zn 213.857†	51242.7	48746.2	482.35 ug/L	482.35 ppb	17:19:56
3	SiO2†	79663.5	76530.9	5120.9 ug/L	5120.9 ppb	17:20:32

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	822218.4	103.33 %	0.389			0.38%
Sc Radial	4093.4	103 %	1.4			1.32%
Y 371.029	658112.0	102.35 %	0.382			0.37%
Y RADIAL	4247.6	102.8 %	1.34			1.31%
Ag 328.068†	94278.1	486.63 ug/L	0.354	486.63 ppb	0.354	0.07%
QC value within limits for Ag 328.068 Recovery = 97.33%						
Al 396.153Radial†	4707.7	4847.1 ug/L	19.19	4847.1 ppb	19.19	0.40%
QC value within limits for Al 396.153Radial Recovery = 96.94%						
As 188.979†	1150.4	491.38 ug/L	3.925	491.38 ppb	3.925	0.80%
QC value within limits for As 188.979 Recovery = 98.28%						
B 249.677†	19580.8	464.98 ug/L	2.312	464.98 ppb	2.312	0.50%
QC value within limits for B 249.677 Recovery = 93.00%						
Ba 233.527†	58110.1	489.02 ug/L	0.120	489.02 ppb	0.120	0.02%
QC value within limits for Ba 233.527 Recovery = 97.80%						
Be 313.107†	1300165.8	487.94 ug/L	0.755	487.94 ppb	0.755	0.15%
QC value within limits for Be 313.107 Recovery = 97.59%						
Ca 317.933Radial†	2517.7	4889.1 ug/L	68.51	4889.1 ppb	68.51	1.40%

QC value within limits for Ca 317.933 Radial Recovery = 97.78%							
Cd 226.502†	39099.8	482.24 ug/L	2.630	482.24 ppb	2.630	0.55%	
QC value within limits for Cd 226.502 Recovery = 96.45%							
Co 228.616†	23049.7	485.90 ug/L	2.971	485.90 ppb	2.971	0.61%	
QC value within limits for Co 228.616 Recovery = 97.18%							
Cr 267.716†	38902.8	481.55 ug/L	0.528	481.55 ppb	0.528	0.11%	
QC value within limits for Cr 267.716 Recovery = 96.31%							
Cu 324.752†	154713.8	481.37 ug/L	0.486	481.37 ppb	0.486	0.10%	
QC value within limits for Cu 324.752 Recovery = 96.27%							
Fe 238.204 Radial†	443.1	4875.0 ug/L	81.43	4875.0 ppb	81.43	1.67%	
QC value within limits for Fe 238.204 Radial Recovery = 97.50%							
K 766.490 Radial†	22021.6	4765.1 ug/L	25.88	4765.1 ppb	25.88	0.54%	
QC value within limits for K 766.490 Radial Recovery = 95.30%							
Mg 279.077 IEC†	125.6	4911.0 ug/L	143.15	4911.0 ppb	143.15	2.91%	
QC value within limits for Mg 279.077 IEC Recovery = 98.22%							
Mn 257.610†	420375.9	488.79 ug/L	0.286	488.79 ppb	0.286	0.06%	
QC value within limits for Mn 257.610 Recovery = 97.76%							
Mo 202.031†	6288.3	487.86 ug/L	2.542	487.86 ppb	2.542	0.52%	
QC value within limits for Mo 202.031 Recovery = 97.57%							
Na 589.592 Radial†	28003.1	9821.9 ug/L	60.82	9821.9 ppb	60.82	0.62%	
QC value within limits for Na 589.592 Radial Recovery = 98.22%							
Ni 231.604†	18192.6	485.97 ug/L	3.194	485.97 ppb	3.194	0.66%	
QC value within limits for Ni 231.604 Recovery = 97.19%							
P 214.914†	4448.7	2342.3 ug/L	14.13	2342.3 ppb	14.13	0.60%	
QC value within limits for P 214.914 Recovery = 93.69%							
Pb 220.353†	3781.4	490.46 ug/L	2.079	490.46 ppb	2.079	0.42%	
QC value within limits for Pb 220.353 Recovery = 98.09%							
S 181.975 Axial†	734.2	951.96 ug/L	6.579	951.96 ppb	6.579	0.69%	
QC value within limits for S 181.975 Axial Recovery = 95.20%							
Sb 206.836†	1366.0	498.02 ug/L	2.999	498.02 ppb	2.999	0.60%	
QC value within limits for Sb 206.836 Recovery = 99.60%							
Se 196.026†	856.9	508.05 ug/L	5.329	508.05 ppb	5.329	1.05%	
QC value within limits for Se 196.026 Recovery = 101.61%							
Si 251.611†	76577.5	2406.0 ug/L	1.34	2406.0 ppb	1.34	0.06%	
QC value within limits for Si 251.611 Recovery = 96.24%							
Sn 189.927†	2611.3	483.06 ug/L	2.282	483.06 ppb	2.282	0.47%	
QC value within limits for Sn 189.927 Recovery = 96.61%							
Sr 421.552†	59143.8	491.64 ug/L	1.194	491.64 ppb	1.194	0.24%	
QC value within limits for Sr 421.552 Recovery = 98.33%							
Ti 334.940†	296672.5	491.95 ug/L	0.309	491.95 ppb	0.309	0.06%	
QC value within limits for Ti 334.940 Recovery = 98.39%							
Tl 190.801†	1519.9	493.21 ug/L	5.435	493.21 ppb	5.435	1.10%	
QC value within limits for Tl 190.801 Recovery = 98.64%							
U 409.014†	14716.7	471.20 ug/L	1.624	471.20 ppb	1.624	0.34%	
QC value within limits for U 409.014 Recovery = 94.24%							
V 292.402†	62686.6	492.83 ug/L	1.315	492.83 ppb	1.315	0.27%	
QC value within limits for V 292.402 Recovery = 98.57%							
Zn 213.857†	48869.4	483.59 ug/L	1.073	483.59 ppb	1.073	0.22%	
QC value within limits for Zn 213.857 Recovery = 96.72%							
SiO2†	77312.6	5173.3 ug/L	87.41	5173.3 ppb	87.41	1.69%	
QC value within limits for SiO2 Recovery = 96.74%							
All analyte(s) passed QC.							

Sequence No.: 14
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 2/17/2010 17:22:42
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4054.8	4054.8	102 %		17:24:54
1	Y RADIAL	3824.6	3824.6	92.58 %		17:24:34
1	Al 396.153Radial†	-123.9	20.4	20.964 ug/L	20.964 ppb	17:24:34
1	Ca 317.933Radial†	27.5	2.7	5.3307 ug/L	5.3307 ppb	17:24:54
1	Fe 238.204 Radial†	11.4	0.1	1.6145 ug/L	1.6145 ppb	17:24:54
1	K 766.490 Radial†	3124.8	-144.1	-31.227 ug/L	-31.227 ppb	17:24:34
1	Mg 279.077 IEC†	3.5	2.1	80.942 ug/L	80.942 ppb	17:24:54
1	Na 589.592 Radial†	-80.8	24.5	8.5766 ug/L	8.5766 ppb	17:24:34
1	Sr 421.552†	108.1	-5.7	-0.0475 ug/L	-0.0475 ppb	17:24:34
1	Sc 361.383	814434.0	814434.0	102.35 %		17:25:51
1	Y 371.029	660612.5	660612.5	102.74 %		17:25:51
1	Ag 328.068†	140.7	-48.1	-0.2504 ug/L	-0.2504 ppb	17:25:51
1	As 188.979†	-37.8	-9.3	-3.9425 ug/L	-3.9425 ppb	17:26:11
1	B 249.677†	-181.0	-234.9	-5.6059 ug/L	-5.6059 ppb	17:25:51
1	Ba 233.527†	89.9	81.4	0.6854 ug/L	0.6854 ppb	17:26:11
1	Be 313.107†	-3644.1	677.9	0.2553 ug/L	0.2553 ppb	17:25:51
1	Cd 226.502†	-186.3	26.6	0.3304 ug/L	0.3304 ppb	17:26:11
1	Co 228.616†	-40.5	38.9	0.8258 ug/L	0.8258 ppb	17:26:11
1	Cr 267.716†	313.4	-391.0	-4.8360 ug/L	-4.8360 ppb	17:25:51
1	Cu 324.752†	8560.2	44.9	0.1347 ug/L	0.1347 ppb	17:25:51
1	Mn 257.610†	890.7	318.8	0.3674 ug/L	0.3674 ppb	17:26:11
1	Mo 202.031†	53.8	31.5	2.4394 ug/L	2.4394 ppb	17:26:11
1	Ni 231.604†	99.2	5.4	0.1431 ug/L	0.1431 ppb	17:26:11
1	P 214.914†	257.8	8.6	4.6619 ug/L	4.6619 ppb	17:26:11
1	Pb 220.353†	-45.9	-28.9	-3.7194 ug/L	-3.7194 ppb	17:26:11
1	S 181.975 Axial†	53.3	-9.6	-12.460 ug/L	-12.460 ppb	17:26:11
1	Sb 206.836†	51.6	6.4	2.2537 ug/L	2.2537 ppb	17:26:11
1	Se 196.026†	-16.4	10.4	5.9891 ug/L	5.9891 ppb	17:26:11
1	Si 251.611†	632.5	-48.0	-1.5415 ug/L	-1.5415 ppb	17:26:11
1	Sn 189.927†	21.2	-15.0	-2.7689 ug/L	-2.7689 ppb	17:26:11
1	Ti 334.940†	-1239.5	391.3	0.6409 ug/L	0.6409 ppb	17:25:51
1	Tl 190.801†	-23.8	-1.9	-0.6078 ug/L	-0.6078 ppb	17:26:11
1	U 409.014†	-3366.3	283.8	9.1288 ug/L	9.1288 ppb	17:25:51
1	V 292.402†	-1695.0	115.8	0.9527 ug/L	0.9527 ppb	17:25:51
1	Zn 213.857†	977.4	93.1	0.9284 ug/L	0.9284 ppb	17:26:11
1	SiO2†	594.1	-10.8	-0.7915 ug/L	-0.7915 ppb	17:27:07
2	Sc Radial	3948.7	3948.7	99.3 %		17:25:19
2	Y RADIAL	4200.7	4200.7	101.7 %		17:24:59
2	Al 396.153Radial†	-135.4	5.6	5.7055 ug/L	5.7055 ppb	17:24:59
2	Ca 317.933Radial†	30.0	6.0	11.611 ug/L	11.611 ppb	17:25:19
2	Fe 238.204 Radial†	12.1	1.2	12.767 ug/L	12.767 ppb	17:25:19
2	K 766.490 Radial†	3159.5	-26.9	-5.8205 ug/L	-5.8205 ppb	17:24:59
2	Mg 279.077 IEC†	3.3	1.9	75.308 ug/L	75.308 ppb	17:25:19
2	Na 589.592 Radial†	-124.4	-21.5	-7.5496 ug/L	-7.5496 ppb	17:24:59
2	Sr 421.552†	95.8	-15.2	-0.1266 ug/L	-0.1266 ppb	17:24:59
2	Sc 361.383	812133.9	812133.9	102.06 %		17:26:16
2	Y 371.029	658287.4	658287.4	102.38 %		17:26:16
2	Ag 328.068†	232.1	41.7	0.2103 ug/L	0.2103 ppb	17:26:16
2	As 188.979†	-33.4	-5.1	-2.1372 ug/L	-2.1372 ppb	17:26:36
2	B 249.677†	-255.9	-308.8	-7.3706 ug/L	-7.3706 ppb	17:26:16
2	Ba 233.527†	65.9	58.1	0.4890 ug/L	0.4890 ppb	17:26:36
2	Be 313.107†	-3631.3	680.4	0.2553 ug/L	0.2553 ppb	17:26:16
2	Cd 226.502†	-201.1	11.6	0.1439 ug/L	0.1439 ppb	17:26:36
2	Co 228.616†	-44.8	34.6	0.7329 ug/L	0.7329 ppb	17:26:36
2	Cr 267.716†	278.0	-424.8	-5.2558 ug/L	-5.2558 ppb	17:26:16
2	Cu 324.752†	8515.6	24.9	0.0718 ug/L	0.0718 ppb	17:26:16
2	Mn 257.610†	807.6	239.9	0.2770 ug/L	0.2770 ppb	17:26:36
2	Mo 202.031†	36.6	14.7	1.1418 ug/L	1.1418 ppb	17:26:36
2	Ni 231.604†	106.5	12.8	0.3413 ug/L	0.3413 ppb	17:26:36

2	P 214.914†	242.5	-5.7	-3.1820 ug/L	-3.1820 ppb	17:26:36
2	Pb 220.353†	-35.6	-18.9	-2.4387 ug/L	-2.4387 ppb	17:26:36
2	S 181.975 Axial†	52.0	-10.8	-13.987 ug/L	-13.987 ppb	17:26:36
2	Sb 206.836†	47.3	2.4	0.7883 ug/L	0.7883 ppb	17:26:36
2	Se 196.026†	-32.6	-5.5	-3.1089 ug/L	-3.1089 ppb	17:26:36
2	Si 251.611†	579.2	-98.4	-3.1141 ug/L	-3.1141 ppb	17:26:36
2	Sn 189.927†	10.0	-25.9	-4.7880 ug/L	-4.7880 ppb	17:26:36
2	Ti 334.940†	-1484.0	148.2	0.2381 ug/L	0.2381 ppb	17:26:16
2	Tl 190.801†	-16.6	5.1	1.6280 ug/L	1.6280 ppb	17:26:36
2	U 409.014†	-3280.2	358.9	11.540 ug/L	11.540 ppb	17:26:16
2	V 292.402†	-1751.2	56.0	0.4737 ug/L	0.4737 ppb	17:26:16
2	Zn 213.857†	955.0	73.9	0.7335 ug/L	0.7335 ppb	17:26:36
2	SiO2†	576.5	-26.4	-1.7992 ug/L	-1.7992 ppb	17:27:12
3	Sc Radial	3967.8	3967.8	99.8 %		17:25:44
3	Y RADIAL	4198.1	4198.1	101.6 %		17:25:24
3	Al 396.153Radial†	-132.6	9.0	9.2835 ug/L	9.2835 ppb	17:25:24
3	Ca 317.933Radial†	28.9	4.7	9.1298 ug/L	9.1298 ppb	17:25:44
3	Fe 238.204 Radial†	10.6	-0.5	-4.9988 ug/L	-4.9988 ppb	17:25:44
3	K 766.490 Radial†	3204.2	2.6	0.5665 ug/L	0.5665 ppb	17:25:24
3	Mg 279.077 IEC†	2.1	0.7	27.905 ug/L	27.905 ppb	17:25:44
3	Na 589.592 Radial†	-127.0	-23.6	-8.2838 ug/L	-8.2838 ppb	17:25:24
3	Sr 421.552†	146.9	35.5	0.2954 ug/L	0.2954 ppb	17:25:24
3	Sc 361.383	811842.1	811842.1	102.02 %		17:26:41
3	Y 371.029	657997.1	657997.1	102.33 %		17:26:41
3	Ag 328.068†	159.1	-29.7	-0.1575 ug/L	-0.1575 ppb	17:26:41
3	As 188.979†	-29.2	-0.9	-0.3944 ug/L	-0.3944 ppb	17:27:01
3	B 249.677†	-354.2	-405.2	-9.6688 ug/L	-9.6688 ppb	17:26:41
3	Ba 233.527†	43.0	35.7	0.2999 ug/L	0.2999 ppb	17:27:01
3	Be 313.107†	-3760.5	552.4	0.2076 ug/L	0.2076 ppb	17:26:41
3	Cd 226.502†	-162.7	49.2	0.6086 ug/L	0.6086 ppb	17:27:01
3	Co 228.616†	-58.0	21.6	0.4607 ug/L	0.4607 ppb	17:27:01
3	Cr 267.716†	314.1	-389.3	-4.8152 ug/L	-4.8152 ppb	17:26:41
3	Cu 324.752†	8407.4	-78.1	-0.2465 ug/L	-0.2465 ppb	17:26:41
3	Mn 257.610†	879.0	310.1	0.3587 ug/L	0.3587 ppb	17:27:01
3	Mo 202.031†	41.3	19.4	1.5041 ug/L	1.5041 ppb	17:27:01
3	Ni 231.604†	102.4	8.8	0.2339 ug/L	0.2339 ppb	17:27:01
3	P 214.914†	257.6	9.2	5.0381 ug/L	5.0381 ppb	17:27:01
3	Pb 220.353†	-47.4	-30.5	-3.9303 ug/L	-3.9303 ppb	17:27:01
3	S 181.975 Axial†	50.2	-12.5	-16.199 ug/L	-16.199 ppb	17:27:01
3	Sb 206.836†	50.6	5.6	1.9540 ug/L	1.9540 ppb	17:27:01
3	Se 196.026†	-19.7	7.2	4.1018 ug/L	4.1018 ppb	17:27:01
3	Si 251.611†	530.3	-146.2	-4.6222 ug/L	-4.6222 ppb	17:27:01
3	Sn 189.927†	15.6	-20.4	-3.7672 ug/L	-3.7672 ppb	17:27:01
3	Ti 334.940†	-1425.4	205.2	0.3386 ug/L	0.3386 ppb	17:26:41
3	Tl 190.801†	-24.3	-2.5	-0.7904 ug/L	-0.7904 ppb	17:27:01
3	U 409.014†	-3466.8	174.8	5.6271 ug/L	5.6271 ppb	17:26:41
3	V 292.402†	-1781.4	25.8	0.2350 ug/L	0.2350 ppb	17:26:41
3	Zn 213.857†	968.6	87.6	0.8741 ug/L	0.8741 ppb	17:27:01
3	SiO2†	575.4	-27.3	-1.8730 ug/L	-1.8730 ppb	17:27:17

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	812803.4	102.14 %	0.178			0.17%
Sc Radial	3990.4	100 %	1.4			1.42%
Y 371.029	658965.7	102.48 %	0.223			0.22%
Y RADIAL	4074.4	98.63 %	5.238			5.31%
Ag 328.068†	-12.0	-0.0659 ug/L	0.24362	-0.0659 ppb	0.24362	369.73%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	11.7	11.984 ug/L	7.9796	11.984 ppb	7.9796	66.58%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-5.1	-2.1581 ug/L	1.77411	-2.1581 ppb	1.77411	82.21%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-316.3	-7.5484 ug/L	2.03724	-7.5484 ppb	2.03724	26.99%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	58.4	0.4914 ug/L	0.19278	0.4914 ppb	0.19278	39.23%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	636.9	0.2394 ug/L	0.02753	0.2394 ppb	0.02753	11.50%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.5	8.6906 ug/L	3.16325	8.6906 ppb	3.16325	36.40%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	29.1	0.3610 ug/L	0.23388	0.3610 ppb	0.23388	64.79%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	31.7	0.6731 ug/L	0.18972	0.6731 ppb	0.18972	28.18%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-401.7	-4.9690 ug/L	0.24860	-4.9690 ppb	0.24860	5.00%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-2.8	-0.0133 ug/L	0.20434	-0.0133 ppb	0.20434	>999.9%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.3	3.1274 ug/L	8.97875	3.1274 ppb	8.97875	287.10%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-56.1	-12.160 ug/L	16.8184	-12.160 ppb	16.8184	138.30%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.6	61.385 ug/L	29.1308	61.385 ppb	29.1308	47.46%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	289.6	0.3344 ug/L	0.04990	0.3344 ppb	0.04990	14.92%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	21.9	1.6951 ug/L	0.66958	1.6951 ppb	0.66958	39.50%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-6.9	-2.4189 ug/L	9.52950	-2.4189 ppb	9.52950	393.96%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	9.0	0.2394 ug/L	0.09926	0.2394 ppb	0.09926	41.46%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	4.0	2.1727 ug/L	4.64110	2.1727 ppb	4.64110	213.61%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-26.1	-3.3628 ug/L	0.80722	-3.3628 ppb	0.80722	24.00%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-11.0	-14.215 ug/L	1.8801	-14.215 ppb	1.8801	13.23%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	4.8	1.6654 ug/L	0.77416	1.6654 ppb	0.77416	46.49%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	4.0	2.3274 ug/L	4.80156	2.3274 ppb	4.80156	206.31%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-97.5	-3.0926 ug/L	1.54048	-3.0926 ppb	1.54048	49.81%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-20.4	-3.7747 ug/L	1.00957	-3.7747 ppb	1.00957	26.75%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	4.9	0.0404 ug/L	0.22429	0.0404 ppb	0.22429	554.81%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	248.2	0.4059 ug/L	0.20965	0.4059 ppb	0.20965	51.66%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	0.2	0.0766 ug/L	1.34665	0.0766 ppb	1.34665	>999.9%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	272.5	8.7653 ug/L	2.97322	8.7653 ppb	2.97322	33.92%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	65.9	0.5538 ug/L	0.36545	0.5538 ppb	0.36545	65.99%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	84.8	0.8453 ug/L	0.10057	0.8453 ppb	0.10057	11.90%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
Sio2†	-21.5	-1.4879 ug/L	0.60425	-1.4879 ppb	0.60425	40.61%	
QC value within limits for Sio2 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 21

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 2/17/2010 18:11:21

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3877.1	3877.1	97.5 %		18:13:33
1	Y RADIAL	4137.3	4137.3	100.2 %		18:13:13
1	Al 396.153Radial†	4650.8	4911.1	5057.4 ug/L	5057.4 ppb	18:13:13
1	Ca 317.933Radial†	2572.5	2613.7	5075.4 ug/L	5075.4 ppb	18:13:33
1	Fe 238.204 Radial†	449.7	450.1	4952.2 ug/L	4952.2 ppb	18:13:33
1	K 766.490 Radial†	25478.0	22918.5	4959.3 ug/L	4959.3 ppb	18:13:13
1	Mg 279.077 IEC†	133.4	135.4	5293.0 ug/L	5293.0 ppb	18:13:33
1	Na 589.592 Radial†	27301.0	28099.6	9855.8 ug/L	9855.8 ppb	18:13:13
1	Sr 421.552†	58447.4	59823.5	497.29 ug/L	497.29 ppb	18:13:13
1	Sc 361.383	820296.2	820296.2	103.08 %		18:14:32
1	Y 371.029	653150.3	653150.3	101.58 %		18:14:32
1	Ag 328.068†	97170.8	94077.8	485.64 ug/L	485.64 ppb	18:14:32
1	As 188.979†	1165.8	1158.6	494.86 ug/L	494.86 ppb	18:14:52
1	B 249.677†	20487.1	19816.1	470.59 ug/L	470.59 ppb	18:14:32
1	Ba 233.527†	59299.6	57518.9	484.07 ug/L	484.07 ppb	18:14:32
1	Be 313.107†	1351307.2	1315113.9	493.53 ug/L	493.53 ppb	18:14:32
1	Cd 226.502†	39824.1	38841.2	479.05 ug/L	479.05 ppb	18:14:52
1	Co 228.616†	23560.3	22933.8	483.47 ug/L	483.47 ppb	18:14:52
1	Cr 267.716†	40871.1	38951.1	482.15 ug/L	482.15 ppb	18:14:32
1	Cu 324.752†	169186.2	155805.1	484.77 ug/L	484.77 ppb	18:14:32
1	Mn 257.610†	432265.0	418780.0	486.93 ug/L	486.93 ppb	18:14:32
1	Mo 202.031†	6552.6	6335.4	491.52 ug/L	491.52 ppb	18:14:52
1	Ni 231.604†	18879.3	18222.8	486.78 ug/L	486.78 ppb	18:14:52
1	P 214.914†	4890.0	4500.4	2369.9 ug/L	2369.9 ppb	18:14:52
1	Pb 220.353†	3851.9	3752.6	486.78 ug/L	486.78 ppb	18:14:52
1	S 181.975 Axial†	1046.6	953.6	1236.6 ug/L	1236.6 ppb	18:14:52
1	Sb 206.836†	1441.4	1354.3	493.86 ug/L	493.86 ppb	18:14:52
1	Se 196.026†	872.5	872.8	517.45 ug/L	517.45 ppb	18:14:52
1	Si 251.611†	80220.0	77153.9	2424.1 ug/L	2424.1 ppb	18:14:32
1	Sn 189.927†	2686.3	2570.2	475.48 ug/L	475.48 ppb	18:14:52
1	Ti 334.940†	303591.3	296110.1	491.01 ug/L	491.01 ppb	18:14:32
1	Tl 190.801†	1511.8	1487.9	482.87 ug/L	482.87 ppb	18:14:52
1	U 409.014†	11587.7	14813.9	474.32 ug/L	474.32 ppb	18:14:32
1	V 292.402†	63401.5	63276.3	497.46 ug/L	497.46 ppb	18:14:32
1	Zn 213.857†	51186.3	48792.9	482.80 ug/L	482.80 ppb	18:14:32
1	SiO2†	80151.2	77161.8	5163.1 ug/L	5163.1 ppb	18:15:52
2	Sc Radial	3875.9	3875.9	97.5 %		18:13:58
2	Y RADIAL	4094.0	4094.0	99.11 %		18:13:38
2	Al 396.153Radial†	4621.9	4883.0	5028.3 ug/L	5028.3 ppb	18:13:38
2	Ca 317.933Radial†	2577.3	2619.5	5086.8 ug/L	5086.8 ppb	18:13:58
2	Fe 238.204 Radial†	455.8	456.6	5023.1 ug/L	5023.1 ppb	18:13:58
2	K 766.490 Radial†	25332.6	22778.0	4928.9 ug/L	4928.9 ppb	18:13:38
2	Mg 279.077 IEC†	134.0	136.1	5320.7 ug/L	5320.7 ppb	18:13:58
2	Na 589.592 Radial†	27061.9	27863.5	9773.0 ug/L	9773.0 ppb	18:13:38
2	Sr 421.552†	57922.7	59304.9	492.98 ug/L	492.98 ppb	18:13:38
2	Sc 361.383	819941.7	819941.7	103.04 %		18:14:59
2	Y 371.029	651810.8	651810.8	101.37 %		18:14:59
2	Ag 328.068†	97016.0	93968.3	485.10 ug/L	485.10 ppb	18:14:59
2	As 188.979†	1162.2	1155.6	493.59 ug/L	493.59 ppb	18:15:19
2	B 249.677†	20469.7	19807.8	470.38 ug/L	470.38 ppb	18:14:59
2	Ba 233.527†	59316.9	57560.6	484.42 ug/L	484.42 ppb	18:14:59
2	Be 313.107†	1353186.0	1317504.3	494.43 ug/L	494.43 ppb	18:14:59
2	Cd 226.502†	40002.9	39031.4	481.39 ug/L	481.39 ppb	18:15:19
2	Co 228.616†	23619.1	23000.7	484.88 ug/L	484.88 ppb	18:15:19
2	Cr 267.716†	40939.3	39034.4	483.18 ug/L	483.18 ppb	18:14:59
2	Cu 324.752†	169454.7	156136.7	485.81 ug/L	485.81 ppb	18:14:59
2	Mn 257.610†	432604.5	419290.9	487.53 ug/L	487.53 ppb	18:14:59
2	Mo 202.031†	6565.8	6351.0	492.73 ug/L	492.73 ppb	18:15:19
2	Ni 231.604†	18934.3	18284.1	488.42 ug/L	488.42 ppb	18:15:19

2	P 214.914†	4919.9	4531.4	2386.6 ug/L	2386.6 ppb	18:15:19
2	Pb 220.353†	3848.6	3751.0	486.57 ug/L	486.57 ppb	18:15:19
2	S 181.975 Axial†	1082.7	989.1	1282.7 ug/L	1282.7 ppb	18:15:19
2	Sb 206.836†	1447.4	1360.7	496.16 ug/L	496.16 ppb	18:15:19
2	Se 196.026†	879.6	880.1	521.87 ug/L	521.87 ppb	18:15:19
2	Si 251.611†	80109.8	77080.6	2421.8 ug/L	2421.8 ppb	18:14:59
2	Sn 189.927†	2689.4	2574.3	476.23 ug/L	476.23 ppb	18:15:19
2	Ti 334.940†	302771.9	295442.2	489.90 ug/L	489.90 ppb	18:14:59
2	Tl 190.801†	1533.8	1509.9	489.94 ug/L	489.94 ppb	18:15:19
2	U 409.014†	11448.4	14683.5	470.12 ug/L	470.12 ppb	18:14:59
2	V 292.402†	63378.2	63280.4	497.49 ug/L	497.49 ppb	18:14:59
2	Zn 213.857†	51252.6	48878.8	483.64 ug/L	483.64 ppb	18:14:59
2	SiO2†	81493.9	78498.5	5252.8 ug/L	5252.8 ppb	18:15:57
3	Sc Radial	3864.7	3864.7	97.2 %		18:14:23
3	Y RADIAL	4110.8	4110.8	99.51 %		18:14:03
3	Al 396.153Radial†	4658.9	4934.7	5082.0 ug/L	5082.0 ppb	18:14:03
3	Ca 317.933Radial†	2568.3	2617.9	5083.6 ug/L	5083.6 ppb	18:14:23
3	Fe 238.204 Radial†	450.5	452.4	4977.0 ug/L	4977.0 ppb	18:14:23
3	K 766.490 Radial†	25240.0	22757.3	4924.4 ug/L	4924.4 ppb	18:14:03
3	Mg 279.077 IEC†	135.7	138.3	5405.6 ug/L	5405.6 ppb	18:14:23
3	Na 589.592 Radial†	27086.0	27968.2	9809.7 ug/L	9809.7 ppb	18:14:03
3	Sr 421.552†	58400.4	59967.2	498.48 ug/L	498.48 ppb	18:14:03
3	Sc 361.383	830458.2	830458.2	104.36 %		18:15:26
3	Y 371.029	658516.1	658516.1	102.41 %		18:15:26
3	Ag 328.068†	98150.6	93863.2	484.55 ug/L	484.55 ppb	18:15:26
3	As 188.979†	1176.2	1154.7	493.24 ug/L	493.24 ppb	18:15:47
3	B 249.677†	20746.7	19821.6	470.72 ug/L	470.72 ppb	18:15:26
3	Ba 233.527†	60173.6	57652.5	485.19 ug/L	485.19 ppb	18:15:26
3	Be 313.107†	1373294.3	1320141.5	495.42 ug/L	495.42 ppb	18:15:26
3	Cd 226.502†	40093.6	38626.6	476.40 ug/L	476.40 ppb	18:15:47
3	Co 228.616†	23733.8	22820.4	481.07 ug/L	481.07 ppb	18:15:47
3	Cr 267.716†	41638.4	39201.1	485.24 ug/L	485.24 ppb	18:15:26
3	Cu 324.752†	171729.7	156234.0	486.11 ug/L	486.11 ppb	18:15:26
3	Mn 257.610†	439600.0	420677.3	489.13 ug/L	489.13 ppb	18:15:26
3	Mo 202.031†	6582.9	6286.6	487.74 ug/L	487.74 ppb	18:15:47
3	Ni 231.604†	19036.8	18149.7	484.83 ug/L	484.83 ppb	18:15:47
3	P 214.914†	4933.5	4484.0	2360.6 ug/L	2360.6 ppb	18:15:47
3	Pb 220.353†	3861.8	3716.4	482.09 ug/L	482.09 ppb	18:15:47
3	S 181.975 Axial†	1158.1	1048.0	1359.2 ug/L	1359.2 ppb	18:15:47
3	Sb 206.836†	1454.0	1349.3	491.97 ug/L	491.97 ppb	18:15:47
3	Se 196.026†	869.6	859.8	510.01 ug/L	510.01 ppb	18:15:47
3	Si 251.611†	81073.5	77019.5	2419.9 ug/L	2419.9 ppb	18:15:26
3	Sn 189.927†	2705.2	2556.5	472.93 ug/L	472.93 ppb	18:15:47
3	Ti 334.940†	306773.9	295555.9	490.08 ug/L	490.08 ppb	18:15:26
3	Tl 190.801†	1530.3	1487.7	482.80 ug/L	482.80 ppb	18:15:47
3	U 409.014†	11730.5	14813.1	474.28 ug/L	474.28 ppb	18:15:26
3	V 292.402†	64255.8	63342.4	497.92 ug/L	497.92 ppb	18:15:26
3	Zn 213.857†	52218.2	49174.0	486.61 ug/L	486.61 ppb	18:15:26
3	SiO2†	78861.8	74974.8	5016.5 ug/L	5016.5 ppb	18:16:02

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	823565.4	103.50 %	0.750			0.73%
Sc Radial	3872.6	97.4 %	0.17			0.18%
Y 371.029	654492.4	101.79 %	0.552			0.54%
Y RADIAL	4114.0	99.59 %	0.528			0.53%
Ag 328.068†	93969.8	485.09 ug/L	0.546	485.09 ppb	0.546	0.11%
QC value within limits for Ag 328.068 Recovery = 97.02%						
Al 396.153Radial†	4909.6	5055.9 ug/L	26.89	5055.9 ppb	26.89	0.53%
QC value within limits for Al 396.153Radial Recovery = 101.12%						
As 188.979†	1156.3	493.89 ug/L	0.851	493.89 ppb	0.851	0.17%
QC value within limits for As 188.979 Recovery = 98.78%						
B 249.677†	19815.2	470.56 ug/L	0.176	470.56 ppb	0.176	0.04%
QC value within limits for B 249.677 Recovery = 94.11%						
Ba 233.527†	57577.3	484.56 ug/L	0.575	484.56 ppb	0.575	0.12%
QC value within limits for Ba 233.527 Recovery = 96.91%						
Be 313.107†	1317586.6	494.46 ug/L	0.941	494.46 ppb	0.941	0.19%
QC value within limits for Be 313.107 Recovery = 98.89%						
Ca 317.933Radial†	2617.0	5081.9 ug/L	5.86	5081.9 ppb	5.86	0.12%

QC value within limits for Ca 317.933 Radial Recovery = 101.64%						
Cd 226.502†	38833.1	478.94 ug/L	2.497	478.94 ppb	2.497	0.52%
QC value within limits for Cd 226.502 Recovery = 95.79%						
Co 228.616†	22918.3	483.14 ug/L	1.927	483.14 ppb	1.927	0.40%
QC value within limits for Co 228.616 Recovery = 96.63%						
Cr 267.716†	39062.2	483.52 ug/L	1.574	483.52 ppb	1.574	0.33%
QC value within limits for Cr 267.716 Recovery = 96.70%						
Cu 324.752†	156058.6	485.56 ug/L	0.701	485.56 ppb	0.701	0.14%
QC value within limits for Cu 324.752 Recovery = 97.11%						
Fe 238.204 Radial†	453.0	4984.1 ug/L	35.94	4984.1 ppb	35.94	0.72%
QC value within limits for Fe 238.204 Radial Recovery = 99.68%						
K 766.490 Radial†	22817.9	4937.6 ug/L	18.99	4937.6 ppb	18.99	0.38%
QC value within limits for K 766.490 Radial Recovery = 98.75%						
Mg 279.077 IEC†	136.6	5339.8 ug/L	58.66	5339.8 ppb	58.66	1.10%
QC value within limits for Mg 279.077 IEC Recovery = 106.80%						
Mn 257.610†	419582.7	487.87 ug/L	1.139	487.87 ppb	1.139	0.23%
QC value within limits for Mn 257.610 Recovery = 97.57%						
Mo 202.031†	6324.4	490.66 ug/L	2.605	490.66 ppb	2.605	0.53%
QC value within limits for Mo 202.031 Recovery = 98.13%						
Na 589.592 Radial†	27977.1	9812.8 ug/L	41.50	9812.8 ppb	41.50	0.42%
QC value within limits for Na 589.592 Radial Recovery = 98.13%						
Ni 231.604†	18218.9	486.68 ug/L	1.799	486.68 ppb	1.799	0.37%
QC value within limits for Ni 231.604 Recovery = 97.34%						
P 214.914†	4505.3	2372.4 ug/L	13.19	2372.4 ppb	13.19	0.56%
QC value within limits for P 214.914 Recovery = 94.90%						
Pb 220.353†	3740.0	485.15 ug/L	2.645	485.15 ppb	2.645	0.55%
QC value within limits for Pb 220.353 Recovery = 97.03%						
S 181.975 Axial†	996.9	1292.9 ug/L	61.91	1292.9 ppb	61.91	4.79%
QC value greater than the upper limit for S 181.975 Axial Recovery = 129.29%						
Sb 206.836†	1354.7	494.00 ug/L	2.095	494.00 ppb	2.095	0.42%
QC value within limits for Sb 206.836 Recovery = 98.80%						
Se 196.026†	870.9	516.44 ug/L	5.996	516.44 ppb	5.996	1.16%
QC value within limits for Se 196.026 Recovery = 103.29%						
Si 251.611†	77084.6	2422.0 ug/L	2.10	2422.0 ppb	2.10	0.09%
QC value within limits for Si 251.611 Recovery = 96.88%						
Sn 189.927†	2567.0	474.88 ug/L	1.726	474.88 ppb	1.726	0.36%
QC value within limits for Sn 189.927 Recovery = 94.98%						
Sr 421.552†	59698.5	496.25 ug/L	2.896	496.25 ppb	2.896	0.58%
QC value within limits for Sr 421.552 Recovery = 99.25%						
Ti 334.940†	295702.7	490.33 ug/L	0.594	490.33 ppb	0.594	0.12%
QC value within limits for Ti 334.940 Recovery = 98.07%						
Tl 190.801†	1495.2	485.20 ug/L	4.100	485.20 ppb	4.100	0.85%
QC value within limits for Tl 190.801 Recovery = 97.04%						
U 409.014†	14770.2	472.91 ug/L	2.414	472.91 ppb	2.414	0.51%
QC value within limits for U 409.014 Recovery = 94.58%						
V 292.402†	63299.7	497.63 ug/L	0.256	497.63 ppb	0.256	0.05%
QC value within limits for V 292.402 Recovery = 99.53%						
Zn 213.857†	48948.6	484.35 ug/L	2.004	484.35 ppb	2.004	0.41%
QC value within limits for Zn 213.857 Recovery = 96.87%						
SiO2†	76878.4	5144.1 ug/L	119.26	5144.1 ppb	119.26	2.32%
QC value within limits for SiO2 Recovery = 96.20%						
QC Failed. Continue with analysis.						

Sequence No.: 22
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 2/17/2010 18:18:12
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3904.0	3904.0	98.2 %		18:20:24
1	Y RADIAL	4150.7	4150.7	100.5 %		18:20:04
1	Al 396.153Radial†	-118.1	21.6	22.332 ug/L	22.332 ppb	18:20:04
1	Ca 317.933Radial†	38.4	14.9	28.875 ug/L	28.875 ppb	18:20:24
1	Fe 238.204 Radial†	8.9	-2.0	-21.605 ug/L	-21.605 ppb	18:20:24
1	K 766.490 Radial†	3056.0	-95.8	-20.805 ug/L	-20.805 ppb	18:20:04
1	Mg 279.077 IEC†	2.4	1.1	44.651 ug/L	44.651 ppb	18:20:24
1	Na 589.592 Radial†	178.6	285.6	100.16 ug/L	100.16 ppb	18:20:04
1	Sr 421.552†	211.7	104.0	0.8641 ug/L	0.8641 ppb	18:20:04
1	Sc 361.383	806852.3	806852.3	101.39 %		18:21:21
1	Y 371.029	652266.9	652266.9	101.44 %		18:21:21
1	Ag 328.068†	346.8	156.4	0.7965 ug/L	0.7965 ppb	18:21:21
1	As 188.979†	-26.2	1.8	0.7463 ug/L	0.7463 ppb	18:21:41
1	B 249.677†	-237.5	-292.3	-6.9712 ug/L	-6.9712 ppb	18:21:41
1	Ba 233.527†	36.3	29.4	0.2504 ug/L	0.2504 ppb	18:21:41
1	Be 313.107†	-2819.8	1457.5	0.5467 ug/L	0.5467 ppb	18:21:21
1	Cd 226.502†	-191.6	19.7	0.2473 ug/L	0.2473 ppb	18:21:41
1	Co 228.616†	-57.4	21.8	0.4643 ug/L	0.4643 ppb	18:21:41
1	Cr 267.716†	121.5	-577.4	-7.1387 ug/L	-7.1387 ppb	18:21:41
1	Cu 324.752†	8517.8	81.7	0.2486 ug/L	0.2486 ppb	18:21:21
1	Mn 257.610†	815.0	252.4	0.2893 ug/L	0.2893 ppb	18:21:41
1	Mo 202.031†	29.2	7.7	0.5947 ug/L	0.5947 ppb	18:21:41
1	Ni 231.604†	119.5	26.3	0.7020 ug/L	0.7020 ppb	18:21:41
1	P 214.914†	234.4	-12.1	-6.7095 ug/L	-6.7095 ppb	18:21:41
1	Pb 220.353†	-41.0	-24.5	-3.1539 ug/L	-3.1539 ppb	18:21:41
1	S 181.975 Axial†	190.5	126.2	163.78 ug/L	163.78 ppb	18:21:41
1	Sb 206.836†	46.7	2.0	0.6571 ug/L	0.6571 ppb	18:21:41
1	Se 196.026†	-16.2	10.5	5.9535 ug/L	5.9535 ppb	18:21:41
1	Si 251.611†	550.0	-123.5	-3.8982 ug/L	-3.8982 ppb	18:21:41
1	Sn 189.927†	11.1	-24.7	-4.5608 ug/L	-4.5608 ppb	18:21:41
1	Ti 334.940†	-1364.0	257.1	0.4257 ug/L	0.4257 ppb	18:21:21
1	Tl 190.801†	-30.2	-8.4	-2.7212 ug/L	-2.7212 ppb	18:21:41
1	U 409.014†	-3368.7	250.5	8.0678 ug/L	8.0678 ppb	18:21:21
1	V 292.402†	-1543.6	249.5	1.9658 ug/L	1.9658 ppb	18:21:21
1	Zn 213.857†	931.2	56.5	0.5631 ug/L	0.5631 ppb	18:21:41
1	SiO2†	666.0	65.6	4.3833 ug/L	4.3833 ppb	18:22:37
2	Sc Radial	3907.5	3907.5	98.3 %		18:20:49
2	Y RADIAL	4205.8	4205.8	101.8 %		18:20:29
2	Al 396.153Radial†	-138.8	0.7	0.6742 ug/L	0.6742 ppb	18:20:29
2	Ca 317.933Radial†	37.5	13.9	26.945 ug/L	26.945 ppb	18:20:49
2	Fe 238.204 Radial†	9.9	-0.9	-10.130 ug/L	-10.130 ppb	18:20:49
2	K 766.490 Radial†	3020.5	-134.7	-29.226 ug/L	-29.226 ppb	18:20:29
2	Mg 279.077 IEC†	5.5	4.3	167.05 ug/L	167.05 ppb	18:20:49
2	Na 589.592 Radial†	164.7	271.3	95.143 ug/L	95.143 ppb	18:20:29
2	Sr 421.552†	95.1	-14.9	-0.1240 ug/L	-0.1240 ppb	18:20:29
2	Sc 361.383	806205.4	806205.4	101.31 %		18:21:46
2	Y 371.029	651621.0	651621.0	101.34 %		18:21:46
2	Ag 328.068†	153.9	-33.7	-0.1787 ug/L	-0.1787 ppb	18:21:46
2	As 188.979†	-37.6	-9.4	-4.0021 ug/L	-4.0021 ppb	18:22:06
2	B 249.677†	-242.7	-297.5	-7.0984 ug/L	-7.0984 ppb	18:22:06
2	Ba 233.527†	37.7	30.8	0.2612 ug/L	0.2612 ppb	18:22:06
2	Be 313.107†	-3050.8	1227.2	0.4604 ug/L	0.4604 ppb	18:21:46
2	Cd 226.502†	-178.0	32.9	0.4096 ug/L	0.4096 ppb	18:22:06
2	Co 228.616†	-55.0	24.2	0.5142 ug/L	0.5142 ppb	18:22:06
2	Cr 267.716†	120.1	-578.6	-7.1559 ug/L	-7.1559 ppb	18:22:06
2	Cu 324.752†	8483.8	54.9	0.1650 ug/L	0.1650 ppb	18:21:46
2	Mn 257.610†	860.7	298.1	0.3386 ug/L	0.3386 ppb	18:22:06
2	Mo 202.031†	34.8	13.3	1.0295 ug/L	1.0295 ppb	18:22:06
2	Ni 231.604†	105.7	12.8	0.3409 ug/L	0.3409 ppb	18:22:06

2	P 214.914†	247.9	1.3	0.6872 ug/L	0.6872 ppb	18:22:06
2	Pb 220.353†	-44.6	-28.1	-3.6264 ug/L	-3.6264 ppb	18:22:06
2	S 181.975 Axial†	198.2	133.9	173.84 ug/L	173.84 ppb	18:22:06
2	Sb 206.836†	44.8	0.2	0.0630 ug/L	0.0630 ppb	18:22:06
2	Se 196.026†	-28.7	-1.9	-1.1200 ug/L	-1.1200 ppb	18:22:06
2	Si 251.611†	548.1	-125.0	-3.9497 ug/L	-3.9497 ppb	18:22:06
2	Sn 189.927†	21.0	-15.0	-2.7636 ug/L	-2.7636 ppb	18:22:06
2	Ti 334.940†	-1383.7	236.5	0.3807 ug/L	0.3807 ppb	18:21:46
2	Tl 190.801†	-25.9	-4.2	-1.3635 ug/L	-1.3635 ppb	18:22:06
2	U 409.014†	-3320.1	295.9	9.5229 ug/L	9.5229 ppb	18:21:46
2	V 292.402†	-1622.6	170.4	1.3615 ug/L	1.3615 ppb	18:21:46
2	Zn 213.857†	938.5	64.5	0.6429 ug/L	0.6429 ppb	18:22:06
2	SiO2†	571.6	-27.1	-1.8451 ug/L	-1.8451 ppb	18:22:42
3	Sc Radial	3904.3	3904.3	98.2 %		18:21:14
3	Y RADIAL	4103.6	4103.6	99.34 %		18:20:54
3	Al 396.153Radial†	-141.4	-2.1	-2.1827 ug/L	-2.1827 ppb	18:20:54
3	Ca 317.933Radial†	38.0	14.4	27.949 ug/L	27.949 ppb	18:21:14
3	Fe 238.204 Radial†	7.0	-3.9	-43.076 ug/L	-43.076 ppb	18:21:14
3	K 766.490 Radial†	3009.5	-143.5	-31.137 ug/L	-31.137 ppb	18:20:54
3	Mg 279.077 IEC†	3.4	2.1	81.170 ug/L	81.170 ppb	18:21:14
3	Na 589.592 Radial†	194.0	301.2	105.65 ug/L	105.65 ppb	18:20:54
3	Sr 421.552†	289.4	183.0	1.5211 ug/L	1.5211 ppb	18:20:54
3	Sc 361.383	805888.0	805888.0	101.27 %		18:22:11
3	Y 371.029	652332.1	652332.1	101.45 %		18:22:11
3	Ag 328.068†	201.1	13.0	0.0528 ug/L	0.0528 ppb	18:22:11
3	As 188.979†	-26.8	1.2	0.5045 ug/L	0.5045 ppb	18:22:32
3	B 249.677†	-229.1	-284.2	-6.7749 ug/L	-6.7749 ppb	18:22:32
3	Ba 233.527†	58.3	51.1	0.4314 ug/L	0.4314 ppb	18:22:32
3	Be 313.107†	-3276.5	1003.2	0.3766 ug/L	0.3766 ppb	18:22:11
3	Cd 226.502†	-183.3	27.6	0.3472 ug/L	0.3472 ppb	18:22:32
3	Co 228.616†	-55.1	24.1	0.5138 ug/L	0.5138 ppb	18:22:32
3	Cr 267.716†	118.6	-580.1	-7.1732 ug/L	-7.1732 ppb	18:22:32
3	Cu 324.752†	8497.9	72.1	0.2171 ug/L	0.2171 ppb	18:22:11
3	Mn 257.610†	900.2	337.5	0.3846 ug/L	0.3846 ppb	18:22:32
3	Mo 202.031†	37.6	16.0	1.2380 ug/L	1.2380 ppb	18:22:32
3	Ni 231.604†	120.9	27.8	0.7420 ug/L	0.7420 ppb	18:22:32
3	P 214.914†	248.3	1.9	0.9814 ug/L	0.9814 ppb	18:22:32
3	Pb 220.353†	-46.5	-30.0	-3.8669 ug/L	-3.8669 ppb	18:22:32
3	S 181.975 Axial†	208.4	144.1	186.99 ug/L	186.99 ppb	18:22:32
3	Sb 206.836†	42.2	-2.3	-0.8261 ug/L	-0.8261 ppb	18:22:32
3	Se 196.026†	-25.3	1.5	0.7180 ug/L	0.7180 ppb	18:22:32
3	Si 251.611†	582.3	-91.0	-2.8808 ug/L	-2.8808 ppb	18:22:32
3	Sn 189.927†	19.2	-16.8	-3.0934 ug/L	-3.0934 ppb	18:22:32
3	Ti 334.940†	-1345.4	273.9	0.4501 ug/L	0.4501 ppb	18:22:11
3	Tl 190.801†	-44.2	-22.3	-7.1812 ug/L	-7.1812 ppb	18:22:32
3	U 409.014†	-3341.2	273.6	8.8131 ug/L	8.8131 ppb	18:22:11
3	V 292.402†	-1567.9	223.7	1.7801 ug/L	1.7801 ppb	18:22:11
3	Zn 213.857†	936.2	62.5	0.6260 ug/L	0.6260 ppb	18:22:32
3	SiO2†	520.2	-77.6	-5.2401 ug/L	-5.2401 ppb	18:22:47

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	806315.2	101.33 %	0.062			0.06%
Sc Radial	3905.3	98.2 %	0.05			0.05%
Y 371.029	652073.4	101.41 %	0.061			0.06%
Y RADIAL	4153.4	100.5 %	1.24			1.23%
Ag 328.068†	45.2	0.2235 ug/L	0.50952	0.2235 ppb	0.50952	227.95%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	6.8	6.9413 ug/L	13.40534	6.9413 ppb	13.40534	193.12%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.2	-0.9171 ug/L	2.67445	-0.9171 ppb	2.67445	291.63%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-291.3	-6.9482 ug/L	0.16297	-6.9482 ppb	0.16297	2.35%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	37.1	0.3143 ug/L	0.10152	0.3143 ppb	0.10152	32.30%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	1229.3	0.4612 ug/L	0.08502	0.4612 ppb	0.08502	18.43%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	14.4	27.923 ug/L	0.9652	27.923 ppb	0.9652	3.46%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	26.8	0.3347 ug/L	0.08183	0.3347 ppb	0.08183	24.45%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	23.4	0.4974 ug/L	0.02867	0.4974 ppb	0.02867	5.76%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-578.7	-7.1559 ug/L	0.01722	-7.1559 ppb	0.01722	0.24%	
QC value less than the lower limit for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	69.6	0.2102 ug/L	0.04225	0.2102 ppb	0.04225	20.10%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-2.3	-24.937 ug/L	16.7237	-24.937 ppb	16.7237	67.06%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-124.6	-27.056 ug/L	5.4970	-27.056 ppb	5.4970	20.32%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	2.5	97.622 ug/L	62.8345	97.622 ppb	62.8345	64.36%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	296.0	0.3375 ug/L	0.04766	0.3375 ppb	0.04766	14.12%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	12.3	0.9541 ug/L	0.32825	0.9541 ppb	0.32825	34.41%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	286.0	100.32 ug/L	5.257	100.32 ppb	5.257	5.24%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	22.3	0.5950 ug/L	0.22090	0.5950 ppb	0.22090	37.13%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-3.0	-1.6803 ug/L	4.35790	-1.6803 ppb	4.35790	259.36%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-27.5	-3.5490 ug/L	0.36274	-3.5490 ppb	0.36274	10.22%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	134.7	174.87 ug/L	11.641	174.87 ppb	11.641	6.66%	
QC value greater than the upper limit for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-0.0	-0.0354 ug/L	0.74650	-0.0354 ppb	0.74650	>999.9%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	3.3	1.8505 ug/L	3.67023	1.8505 ppb	3.67023	198.33%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-113.2	-3.5763 ug/L	0.60283	-3.5763 ppb	0.60283	16.86%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-18.8	-3.4726 ug/L	0.95671	-3.4726 ppb	0.95671	27.55%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	90.7	0.7537 ug/L	0.82805	0.7537 ppb	0.82805	109.86%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	255.8	0.4188 ug/L	0.03520	0.4188 ppb	0.03520	8.40%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-11.7	-3.7553 ug/L	3.04358	-3.7553 ppb	3.04358	81.05%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	273.3	8.8012 ug/L	0.72763	8.8012 ppb	0.72763	8.27%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	214.5	1.7025 ug/L	0.30953	1.7025 ppb	0.30953	18.18%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	61.2	0.6107 ug/L	0.04203	0.6107 ppb	0.04203	6.88%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	-13.0	-0.9006 ug/L	4.88072	-0.9006 ppb	4.88072	541.92%	
QC value within limits for SiO2 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 28

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 2/17/2010 18:59:01

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	3980.9	3980.9	100 %		19:01:13
1	Y RADIAL	4166.3	4166.3	100.9 %		19:00:53
1	Al 396.153Radial†	4679.5	4815.4	4958.7 ug/L	4958.7 ppb	19:00:53
1	Ca 317.933Radial†	2629.1	2601.6	5051.8 ug/L	5051.8 ppb	19:01:13
1	Fe 238.204 Radial†	465.8	454.2	4996.5 ug/L	4996.5 ppb	19:01:13
1	K 766.490 Radial†	25519.8	22279.4	4820.9 ug/L	4820.9 ppb	19:00:53
1	Mg 279.077 IEC†	135.6	134.1	5239.9 ug/L	5239.9 ppb	19:01:13
1	Na 589.592 Radial†	27996.6	28064.8	9843.6 ug/L	9843.6 ppb	19:00:53
1	Sr 421.552†	59721.4	59533.9	494.88 ug/L	494.88 ppb	19:00:53
1	Sc 361.383	833668.9	833668.9	104.76 %		19:02:12
1	Y 371.029	663855.4	663855.4	103.24 %		19:02:12
1	Ag 328.068†	98474.7	93810.3	484.27 ug/L	484.27 ppb	19:02:12
1	As 188.979†	1166.9	1141.5	487.62 ug/L	487.62 ppb	19:02:32
1	B 249.677†	20856.7	19850.1	471.42 ug/L	471.42 ppb	19:02:12
1	Ba 233.527†	60207.1	57462.4	483.59 ug/L	483.59 ppb	19:02:12
1	Be 313.107†	1368195.8	1310207.0	491.69 ug/L	491.69 ppb	19:02:12
1	Cd 226.502†	39874.0	38269.1	471.98 ug/L	471.98 ppb	19:02:32
1	Co 228.616†	23557.6	22564.6	475.68 ug/L	475.68 ppb	19:02:32
1	Cr 267.716†	41300.1	38724.5	479.35 ug/L	479.35 ppb	19:02:12
1	Cu 324.752†	171695.2	155567.4	484.04 ug/L	484.04 ppb	19:02:12
1	Mn 257.610†	438508.1	418012.7	486.05 ug/L	486.05 ppb	19:02:12
1	Mo 202.031†	6584.5	6264.0	485.98 ug/L	485.98 ppb	19:02:32
1	Ni 231.604†	18895.7	17944.8	479.35 ug/L	479.35 ppb	19:02:32
1	P 214.914†	4875.2	4410.1	2320.5 ug/L	2320.5 ppb	19:02:32
1	Pb 220.353†	3877.6	3717.3	482.17 ug/L	482.17 ppb	19:02:32
1	S 181.975 Axial†	902.8	800.1	1037.5 ug/L	1037.5 ppb	19:02:32
1	Sb 206.836†	1439.1	1329.6	485.01 ug/L	485.01 ppb	19:02:32
1	Se 196.026†	870.2	857.1	508.53 ug/L	508.53 ppb	19:02:32
1	Si 251.611†	81339.9	76974.5	2418.6 ug/L	2418.6 ppb	19:02:12
1	Sn 189.927†	2714.1	2554.9	472.64 ug/L	472.64 ppb	19:02:32
1	Ti 334.940†	307569.8	295183.5	489.48 ug/L	489.48 ppb	19:02:12
1	Tl 190.801†	1525.9	1477.8	479.64 ug/L	479.64 ppb	19:02:32
1	U 409.014†	11560.5	14607.6	467.69 ug/L	467.69 ppb	19:02:12
1	V 292.402†	63991.9	62853.3	494.08 ug/L	494.08 ppb	19:02:12
1	Zn 213.857†	51886.6	48664.8	481.56 ug/L	481.56 ppb	19:02:12
1	SiO2†	81522.7	77223.7	5167.4 ug/L	5167.4 ppb	19:03:32
2	Sc Radial	3983.1	3983.1	100 %		19:01:38
2	Y RADIAL	4163.9	4163.9	100.8 %		19:01:18
2	Al 396.153Radial†	4685.1	4818.5	4961.8 ug/L	4961.8 ppb	19:01:18
2	Ca 317.933Radial†	2628.9	2599.9	5048.6 ug/L	5048.6 ppb	19:01:38
2	Fe 238.204 Radial†	463.5	451.6	4968.5 ug/L	4968.5 ppb	19:01:38
2	K 766.490 Radial†	25362.7	22108.7	4783.9 ug/L	4783.9 ppb	19:01:18
2	Mg 279.077 IEC†	134.3	132.7	5186.3 ug/L	5186.3 ppb	19:01:38
2	Na 589.592 Radial†	27726.6	27780.0	9743.7 ug/L	9743.7 ppb	19:01:18
2	Sr 421.552†	59269.6	59050.4	490.86 ug/L	490.86 ppb	19:01:18
2	Sc 361.383	829735.9	829735.9	104.27 %		19:02:39
2	Y 371.029	659040.2	659040.2	102.49 %		19:02:39
2	Ag 328.068†	97589.7	93407.1	482.19 ug/L	482.19 ppb	19:02:39
2	As 188.979†	1167.2	1147.0	489.93 ug/L	489.93 ppb	19:02:59
2	B 249.677†	20491.7	19594.4	465.31 ug/L	465.31 ppb	19:02:39
2	Ba 233.527†	59884.8	57425.7	483.28 ug/L	483.28 ppb	19:02:39
2	Be 313.107†	1360455.9	1308974.6	491.23 ug/L	491.23 ppb	19:02:39
2	Cd 226.502†	40012.1	38582.0	475.85 ug/L	475.85 ppb	19:02:59
2	Co 228.616†	23653.3	22763.0	479.87 ug/L	479.87 ppb	19:02:59
2	Cr 267.716†	41133.7	38751.8	479.68 ug/L	479.68 ppb	19:02:39
2	Cu 324.752†	170684.1	155374.5	483.43 ug/L	483.43 ppb	19:02:39
2	Mn 257.610†	435803.7	417403.2	485.34 ug/L	485.34 ppb	19:02:39
2	Mo 202.031†	6590.4	6299.4	488.72 ug/L	488.72 ppb	19:02:59
2	Ni 231.604†	18979.6	18110.6	483.79 ug/L	483.79 ppb	19:02:59

2	P 214.914†	4905.7	4461.4	2348.8 ug/L	2348.8 ppb	19:02:59
2	Pb 220.353†	3840.0	3698.7	479.78 ug/L	479.78 ppb	19:02:59
2	S 181.975 Axial†	911.2	812.2	1053.2 ug/L	1053.2 ppb	19:02:59
2	Sb 206.836†	1437.8	1334.9	486.93 ug/L	486.93 ppb	19:02:59
2	Se 196.026†	879.4	869.9	515.80 ug/L	515.80 ppb	19:02:59
2	Si 251.611†	80168.6	76219.3	2394.7 ug/L	2394.7 ppb	19:02:39
2	Sn 189.927†	2695.2	2549.1	471.56 ug/L	471.56 ppb	19:02:59
2	Ti 334.940†	304518.2	293648.5	486.93 ug/L	486.93 ppb	19:02:39
2	Tl 190.801†	1523.6	1482.5	481.11 ug/L	481.11 ppb	19:02:59
2	U 409.014†	11638.6	14734.8	471.78 ug/L	471.78 ppb	19:02:39
2	V 292.402†	63569.6	62737.8	493.24 ug/L	493.24 ppb	19:02:39
2	Zn 213.857†	51514.0	48542.3	480.32 ug/L	480.32 ppb	19:02:39
2	SiO2†	81717.1	77779.0	5204.6 ug/L	5204.6 ppb	19:03:37
3	Sc Radial	3993.9	3993.9	100 %		19:02:03
3	Y RADIAL	4233.0	4233.0	102.5 %		19:01:43
3	Al 396.153Radial†	4758.4	4878.7	5023.9 ug/L	5023.9 ppb	19:01:43
3	Ca 317.933Radial†	2626.2	2590.1	5029.6 ug/L	5029.6 ppb	19:02:03
3	Fe 238.204 Radial†	459.1	446.0	4906.8 ug/L	4906.8 ppb	19:02:03
3	K 766.490 Radial†	25832.5	22507.4	4870.3 ug/L	4870.3 ppb	19:01:43
3	Mg 279.077 IEC†	134.2	132.3	5169.8 ug/L	5169.8 ppb	19:02:03
3	Na 589.592 Radial†	28326.1	28301.4	9926.6 ug/L	9926.6 ppb	19:01:43
3	Sr 421.552†	60449.2	60063.6	499.28 ug/L	499.28 ppb	19:01:43
3	Sc 361.383	826841.1	826841.1	103.91 %		19:03:07
3	Y 371.029	658542.5	658542.5	102.42 %		19:03:07
3	Ag 328.068†	97430.6	93581.6	483.07 ug/L	483.07 ppb	19:03:07
3	As 188.979†	1183.2	1166.4	498.11 ug/L	498.11 ppb	19:03:27
3	B 249.677†	20510.5	19681.3	467.38 ug/L	467.38 ppb	19:03:07
3	Ba 233.527†	59740.1	57487.5	483.80 ug/L	483.80 ppb	19:03:07
3	Be 313.107†	1359608.3	1312726.8	492.63 ug/L	492.63 ppb	19:03:07
3	Cd 226.502†	40176.4	38874.5	479.46 ug/L	479.46 ppb	19:03:27
3	Co 228.616†	23763.9	22948.9	483.79 ug/L	483.79 ppb	19:03:27
3	Cr 267.716†	41196.0	38949.9	482.13 ug/L	482.13 ppb	19:03:07
3	Cu 324.752†	169903.8	155196.6	482.87 ug/L	482.87 ppb	19:03:07
3	Mn 257.610†	434767.5	417869.3	485.87 ug/L	485.87 ppb	19:03:07
3	Mo 202.031†	6607.2	6337.7	491.69 ug/L	491.69 ppb	19:03:27
3	Ni 231.604†	19024.7	18217.8	486.65 ug/L	486.65 ppb	19:03:27
3	P 214.914†	4933.4	4504.5	2372.6 ug/L	2372.6 ppb	19:03:27
3	Pb 220.353†	3869.7	3740.2	485.17 ug/L	485.17 ppb	19:03:27
3	S 181.975 Axial†	909.3	813.4	1054.7 ug/L	1054.7 ppb	19:03:27
3	Sb 206.836†	1436.2	1338.2	488.24 ug/L	488.24 ppb	19:03:27
3	Se 196.026†	886.0	879.2	520.97 ug/L	520.97 ppb	19:03:27
3	Si 251.611†	80114.9	76436.7	2401.5 ug/L	2401.5 ppb	19:03:07
3	Sn 189.927†	2721.7	2583.7	477.97 ug/L	477.97 ppb	19:03:27
3	Ti 334.940†	303497.0	293688.2	487.00 ug/L	487.00 ppb	19:03:07
3	Tl 190.801†	1546.4	1509.6	489.82 ug/L	489.82 ppb	19:03:27
3	U 409.014†	11627.0	14762.7	472.68 ug/L	472.68 ppb	19:03:07
3	V 292.402†	63574.7	62956.2	494.99 ug/L	494.99 ppb	19:03:07
3	Zn 213.857†	51493.7	48695.7	481.84 ug/L	481.84 ppb	19:03:07
3	SiO2†	81445.4	77791.8	5205.4 ug/L	5205.4 ppb	19:03:42

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	830081.9	104.31 %	0.431			0.41%
Sc Radial	3986.0	100 %	0.2			0.18%
Y 371.029	660479.4	102.72 %	0.456			0.44%
Y RADIAL	4187.7	101.4 %	0.95			0.94%
Ag 328.068†	93599.7	483.18 ug/L	1.046	483.18 ppb	1.046	0.22%
QC value within limits for Ag 328.068 Recovery = 96.64%						
Al 396.153Radial†	4837.5	4981.4 ug/L	36.78	4981.4 ppb	36.78	0.74%
QC value within limits for Al 396.153Radial Recovery = 99.63%						
As 188.979†	1151.6	491.88 ug/L	5.512	491.88 ppb	5.512	1.12%
QC value within limits for As 188.979 Recovery = 98.38%						
B 249.677†	19708.6	468.03 ug/L	3.106	468.03 ppb	3.106	0.66%
QC value within limits for B 249.677 Recovery = 93.61%						
Ba 233.527†	57458.5	483.56 ug/L	0.262	483.56 ppb	0.262	0.05%
QC value within limits for Ba 233.527 Recovery = 96.71%						
Be 313.107†	1310636.1	491.85 ug/L	0.716	491.85 ppb	0.716	0.15%
QC value within limits for Be 313.107 Recovery = 98.37%						
Ca 317.933Radial†	2597.2	5043.3 ug/L	12.03	5043.3 ppb	12.03	0.24%

QC value within limits for Ca 317.933 Radial Recovery = 100.87%

Cd 226.502†	38575.2	475.76 ug/L	3.742	475.76 ppb	3.742	0.79%
QC value within limits for Cd 226.502 Recovery = 95.15%						
Co 228.616†	22758.8	479.78 ug/L	4.060	479.78 ppb	4.060	0.85%
QC value within limits for Co 228.616 Recovery = 95.96%						
Cr 267.716†	38808.7	480.39 ug/L	1.520	480.39 ppb	1.520	0.32%
QC value within limits for Cr 267.716 Recovery = 96.08%						
Cu 324.752†	155379.5	483.45 ug/L	0.581	483.45 ppb	0.581	0.12%
QC value within limits for Cu 324.752 Recovery = 96.69%						
Fe 238.204 Radial†	450.6	4957.2 ug/L	45.87	4957.2 ppb	45.87	0.93%
QC value within limits for Fe 238.204 Radial Recovery = 99.14%						
K 766.490 Radial†	22298.5	4825.0 ug/L	43.31	4825.0 ppb	43.31	0.90%
QC value within limits for K 766.490 Radial Recovery = 96.50%						
Mg 279.077 IEC†	133.0	5198.7 ug/L	36.66	5198.7 ppb	36.66	0.71%
QC value within limits for Mg 279.077 IEC Recovery = 103.97%						
Mn 257.610†	417761.7	485.75 ug/L	0.370	485.75 ppb	0.370	0.08%
QC value within limits for Mn 257.610 Recovery = 97.15%						
Mo 202.031†	6300.3	488.80 ug/L	2.854	488.80 ppb	2.854	0.58%
QC value within limits for Mo 202.031 Recovery = 97.76%						
Na 589.592 Radial†	28048.7	9837.9 ug/L	91.57	9837.9 ppb	91.57	0.93%
QC value within limits for Na 589.592 Radial Recovery = 98.38%						
Ni 231.604†	18091.1	483.26 ug/L	3.675	483.26 ppb	3.675	0.76%
QC value within limits for Ni 231.604 Recovery = 96.65%						
P 214.914†	4458.7	2347.3 ug/L	26.07	2347.3 ppb	26.07	1.11%
QC value within limits for P 214.914 Recovery = 93.89%						
Pb 220.353†	3718.7	482.38 ug/L	2.702	482.38 ppb	2.702	0.56%
QC value within limits for Pb 220.353 Recovery = 96.48%						
S 181.975 Axial†	808.6	1048.5 ug/L	9.56	1048.5 ppb	9.56	0.91%
QC value within limits for S 181.975 Axial Recovery = 104.85%						
Sb 206.836†	1334.2	486.73 ug/L	1.623	486.73 ppb	1.623	0.33%
QC value within limits for Sb 206.836 Recovery = 97.35%						
Se 196.026†	868.7	515.10 ug/L	6.247	515.10 ppb	6.247	1.21%
QC value within limits for Se 196.026 Recovery = 103.02%						
Si 251.611†	76543.5	2404.9 ug/L	12.27	2404.9 ppb	12.27	0.51%
QC value within limits for Si 251.611 Recovery = 96.20%						
Sn 189.927†	2562.6	474.05 ug/L	3.432	474.05 ppb	3.432	0.72%
QC value within limits for Sn 189.927 Recovery = 94.81%						
Sr 421.552†	59549.3	495.01 ug/L	4.213	495.01 ppb	4.213	0.85%
QC value within limits for Sr 421.552 Recovery = 99.00%						
Ti 334.940†	294173.4	487.80 ug/L	1.451	487.80 ppb	1.451	0.30%
QC value within limits for Ti 334.940 Recovery = 97.56%						
Tl 190.801†	1490.0	483.52 ug/L	5.506	483.52 ppb	5.506	1.14%
QC value within limits for Tl 190.801 Recovery = 96.70%						
U 409.014†	14701.7	470.72 ug/L	2.658	470.72 ppb	2.658	0.56%
QC value within limits for U 409.014 Recovery = 94.14%						
V 292.402†	62849.1	494.10 ug/L	0.873	494.10 ppb	0.873	0.18%
QC value within limits for V 292.402 Recovery = 98.82%						
Zn 213.857†	48634.3	481.24 ug/L	0.812	481.24 ppb	0.812	0.17%
QC value within limits for Zn 213.857 Recovery = 96.25%						
SiO2†	77598.2	5192.5 ug/L	21.69	5192.5 ppb	21.69	0.42%
QC value within limits for SiO2 Recovery = 97.10%						

All analyte(s) passed QC.

Sequence No.: 29

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/17/2010 19:05:52

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4233.9	4233.9	106 %		19:07:44
1	Y RADIAL	4389.9	4389.9	106.3 %		19:07:44
1	Al 396.153Radial†	-147.3	3.6	3.6558 ug/L	3.6558 ppb	19:07:44
1	Ca 317.933Radial†	34.1	7.8	15.086 ug/L	15.086 ppb	19:08:04
1	Fe 238.204 Radial†	8.1	-3.4	-37.275 ug/L	-37.275 ppb	19:08:04
1	K 766.490 Radial†	2996.9	-393.7	-85.318 ug/L	-85.318 ppb	19:07:44
1	Mg 279.077 IEC†	4.9	3.3	127.75 ug/L	127.75 ppb	19:08:04
1	Na 589.592 Radial†	-99.1	10.6	3.7296 ug/L	3.7296 ppb	19:07:44
1	Sr 421.552†	98.3	-19.3	-0.1609 ug/L	-0.1609 ppb	19:07:44
1	Sc 361.383	813635.4	813635.4	102.25 %		19:09:01
1	Y 371.029	657644.0	657644.0	102.28 %		19:09:01
1	Ag 328.068†	296.0	103.8	0.5200 ug/L	0.5200 ppb	19:09:01
1	As 188.979†	-29.9	-1.6	-0.6642 ug/L	-0.6642 ppb	19:09:21
1	B 249.677†	-223.8	-276.9	-6.6020 ug/L	-6.6020 ppb	19:09:21
1	Ba 233.527†	44.4	37.0	0.3126 ug/L	0.3126 ppb	19:09:21
1	Be 313.107†	-2632.2	1664.0	0.6245 ug/L	0.6245 ppb	19:09:01
1	Cd 226.502†	-204.3	8.8	0.1147 ug/L	0.1147 ppb	19:09:21
1	Co 228.616†	-64.2	15.6	0.3355 ug/L	0.3355 ppb	19:09:21
1	Cr 267.716†	125.6	-574.4	-7.1029 ug/L	-7.1029 ppb	19:09:21
1	Cu 324.752†	8645.1	136.2	0.4171 ug/L	0.4171 ppb	19:09:01
1	Mn 257.610†	772.8	204.4	0.2286 ug/L	0.2286 ppb	19:09:21
1	Mo 202.031†	42.2	20.1	1.5580 ug/L	1.5580 ppb	19:09:21
1	Ni 231.604†	103.5	9.6	0.2576 ug/L	0.2576 ppb	19:09:21
1	P 214.914†	236.0	-12.6	-6.9519 ug/L	-6.9519 ppb	19:09:21
1	Pb 220.353†	-31.9	-15.3	-1.9665 ug/L	-1.9665 ppb	19:09:21
1	S 181.975 Axial†	120.4	56.0	72.721 ug/L	72.721 ppb	19:09:21
1	Sb 206.836†	43.6	-1.4	-0.4910 ug/L	-0.4910 ppb	19:09:21
1	Se 196.026†	-21.5	5.4	2.9971 ug/L	2.9971 ppb	19:09:21
1	Si 251.611†	570.8	-107.7	-3.4103 ug/L	-3.4103 ppb	19:09:21
1	Sn 189.927†	21.4	-14.7	-2.7201 ug/L	-2.7201 ppb	19:09:21
1	Ti 334.940†	-1245.3	384.4	0.6281 ug/L	0.6281 ppb	19:09:01
1	Tl 190.801†	-31.6	-9.5	-3.0654 ug/L	-3.0654 ppb	19:09:21
1	U 409.014†	-3391.3	256.2	8.2502 ug/L	8.2502 ppb	19:09:01
1	V 292.402†	-1621.6	185.9	1.4901 ug/L	1.4901 ppb	19:09:01
1	Zn 213.857†	899.0	17.3	0.1766 ug/L	0.1766 ppb	19:09:21
1	SiO2†	641.7	36.3	2.3947 ug/L	2.3947 ppb	19:10:17
2	Sc Radial	4072.7	4072.7	102 %		19:08:09
2	Y RADIAL	4183.4	4183.4	101.3 %		19:08:09
2	Al 396.153Radial†	-123.0	21.9	22.552 ug/L	22.552 ppb	19:08:09
2	Ca 317.933Radial†	44.5	19.2	37.229 ug/L	37.229 ppb	19:08:29
2	Fe 238.204 Radial†	12.5	1.1	12.612 ug/L	12.612 ppb	19:08:29
2	K 766.490 Radial†	3120.9	-161.4	-34.992 ug/L	-34.992 ppb	19:08:09
2	Mg 279.077 IEC†	3.1	1.6	63.771 ug/L	63.771 ppb	19:08:29
2	Na 589.592 Radial†	-48.2	56.6	19.864 ug/L	19.864 ppb	19:08:09
2	Sr 421.552†	117.4	2.9	0.0239 ug/L	0.0239 ppb	19:08:09
2	Sc 361.383	819392.7	819392.7	102.97 %		19:09:26
2	Y 371.029	662831.6	662831.6	103.08 %		19:09:26
2	Ag 328.068†	330.9	135.7	0.6991 ug/L	0.6991 ppb	19:09:26
2	As 188.979†	-31.5	-2.9	-1.2282 ug/L	-1.2282 ppb	19:09:46
2	B 249.677†	-252.3	-303.1	-7.2341 ug/L	-7.2341 ppb	19:09:46
2	Ba 233.527†	36.2	28.8	0.2460 ug/L	0.2460 ppb	19:09:46
2	Be 313.107†	-2936.3	1386.8	0.5208 ug/L	0.5208 ppb	19:09:26
2	Cd 226.502†	-183.6	30.3	0.3749 ug/L	0.3749 ppb	19:09:46
2	Co 228.616†	-64.2	16.1	0.3438 ug/L	0.3438 ppb	19:09:46
2	Cr 267.716†	105.3	-594.9	-7.3557 ug/L	-7.3557 ppb	19:09:46
2	Cu 324.752†	8536.9	-28.3	-0.0927 ug/L	-0.0927 ppb	19:09:26
2	Mn 257.610†	800.0	225.4	0.2606 ug/L	0.2606 ppb	19:09:46
2	Mo 202.031†	37.9	15.7	1.2149 ug/L	1.2149 ppb	19:09:46
2	Ni 231.604†	109.4	14.7	0.3922 ug/L	0.3922 ppb	19:09:46

2	P 214.914†	237.0	-13.1	-7.1993 ug/L	-7.1993 ppb	19:09:46
2	Pb 220.353†	-42.5	-25.3	-3.2603 ug/L	-3.2603 ppb	19:09:46
2	S 181.975 Axial†	112.1	47.2	61.243 ug/L	61.243 ppb	19:09:46
2	Sb 206.836†	46.3	1.0	0.3406 ug/L	0.3406 ppb	19:09:46
2	Se 196.026†	-16.7	10.3	5.9463 ug/L	5.9463 ppb	19:09:46
2	Si 251.611†	562.6	-119.5	-3.7799 ug/L	-3.7799 ppb	19:09:46
2	Sn 189.927†	20.7	-15.6	-2.8864 ug/L	-2.8864 ppb	19:09:46
2	Ti 334.940†	-1230.3	407.6	0.6742 ug/L	0.6742 ppb	19:09:26
2	Tl 190.801†	-35.6	-13.2	-4.2615 ug/L	-4.2615 ppb	19:09:46
2	U 409.014†	-3370.6	299.5	9.6383 ug/L	9.6383 ppb	19:09:26
2	V 292.402†	-1577.1	240.3	1.9012 ug/L	1.9012 ppb	19:09:26
2	Zn 213.857†	918.1	29.7	0.2924 ug/L	0.2924 ppb	19:09:46
2	SiO2†	661.5	51.2	3.3997 ug/L	3.3997 ppb	19:10:22
3	Sc Radial	4017.3	4017.3	101 %		19:08:34
3	Y RADIAL	4181.9	4181.9	101.2 %		19:08:34
3	Al 396.153Radial†	-126.1	17.1	17.585 ug/L	17.585 ppb	19:08:34
3	Ca 317.933Radial†	28.3	3.8	7.3643 ug/L	7.3643 ppb	19:08:54
3	Fe 238.204 Radial†	12.5	1.4	14.842 ug/L	14.842 ppb	19:08:54
3	K 766.490 Radial†	3113.9	-126.3	-27.389 ug/L	-27.389 ppb	19:08:34
3	Mg 279.077 IEC†	3.7	2.3	91.752 ug/L	91.752 ppb	19:08:54
3	Na 589.592 Radial†	30.2	133.6	46.844 ug/L	46.844 ppb	19:08:34
3	Sr 421.552†	181.5	67.9	0.5647 ug/L	0.5647 ppb	19:08:34
3	Sc 361.383	813789.0	813789.0	102.27 %		19:09:51
3	Y 371.029	658215.5	658215.5	102.37 %		19:09:51
3	Ag 328.068†	391.4	197.1	1.0113 ug/L	1.0113 ppb	19:09:51
3	As 188.979†	-34.7	-6.3	-2.6531 ug/L	-2.6531 ppb	19:10:12
3	B 249.677†	-245.9	-298.5	-7.1259 ug/L	-7.1259 ppb	19:10:12
3	Ba 233.527†	45.6	38.2	0.3242 ug/L	0.3242 ppb	19:10:12
3	Be 313.107†	-2637.1	1659.7	0.6230 ug/L	0.6230 ppb	19:09:51
3	Cd 226.502†	-166.8	45.6	0.5629 ug/L	0.5629 ppb	19:10:12
3	Co 228.616†	-52.8	26.8	0.5691 ug/L	0.5691 ppb	19:10:12
3	Cr 267.716†	108.8	-590.8	-7.3061 ug/L	-7.3061 ppb	19:10:12
3	Cu 324.752†	8576.7	67.6	0.2045 ug/L	0.2045 ppb	19:09:51
3	Mn 257.610†	917.4	345.6	0.3994 ug/L	0.3994 ppb	19:10:12
3	Mo 202.031†	37.1	15.2	1.1795 ug/L	1.1795 ppb	19:10:12
3	Ni 231.604†	99.6	5.8	0.1537 ug/L	0.1537 ppb	19:10:12
3	P 214.914†	242.5	-6.2	-3.4747 ug/L	-3.4747 ppb	19:10:12
3	Pb 220.353†	-63.0	-45.7	-5.8974 ug/L	-5.8974 ppb	19:10:12
3	S 181.975 Axial†	103.9	39.9	51.744 ug/L	51.744 ppb	19:10:12
3	Sb 206.836†	42.4	-2.5	-0.8964 ug/L	-0.8964 ppb	19:10:12
3	Se 196.026†	-19.6	7.3	4.2254 ug/L	4.2254 ppb	19:10:12
3	Si 251.611†	548.0	-130.1	-4.1131 ug/L	-4.1131 ppb	19:10:12
3	Sn 189.927†	27.2	-9.1	-1.6848 ug/L	-1.6848 ppb	19:10:12
3	Ti 334.940†	-1224.7	404.8	0.6623 ug/L	0.6623 ppb	19:09:51
3	Tl 190.801†	-25.4	-3.5	-1.1124 ug/L	-1.1124 ppb	19:10:12
3	U 409.014†	-3271.5	373.8	12.026 ug/L	12.026 ppb	19:09:51
3	V 292.402†	-1631.8	176.2	1.4085 ug/L	1.4085 ppb	19:09:51
3	Zn 213.857†	935.0	52.4	0.5196 ug/L	0.5196 ppb	19:10:12
3	SiO2†	567.3	-36.5	-2.4820 ug/L	-2.4820 ppb	19:10:27

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	815605.7	102.49 %		0.412			0.40%
Sc Radial	4108.0	103 %		2.8			2.74%
Y 371.029	659563.7	102.58 %		0.442			0.43%
Y RADIAL	4251.7	102.9 %		2.90			2.81%
Ag 328.068†	145.5	0.7435 ug/L		0.24862	0.7435 ppb	0.24862	33.44%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	14.2	14.597 ug/L		9.7958	14.597 ppb	9.7958	67.11%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-3.6	-1.5152 ug/L		1.02503	-1.5152 ppb	1.02503	67.65%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-292.8	-6.9873 ug/L		0.33804	-6.9873 ppb	0.33804	4.84%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	34.7	0.2942 ug/L		0.04221	0.2942 ppb	0.04221	14.35%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	1570.2	0.5894 ug/L		0.05944	0.5894 ppb	0.05944	10.08%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	10.2	19.893 ug/L		15.5018	19.893 ppb	15.5018	77.93%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	28.2	0.3508 ug/L	0.22505	0.3508 ppb	0.22505	64.15%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	19.5	0.4161 ug/L	0.13258	0.4161 ppb	0.13258	31.86%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-586.7	-7.2549 ug/L	0.13398	-7.2549 ppb	0.13398	1.85%	
QC value less than the lower limit for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	58.5	0.1763 ug/L	0.25609	0.1763 ppb	0.25609	145.26%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.3	-3.2739 ug/L	29.46724	-3.2739 ppb	29.46724	900.07%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-227.1	-49.233 ug/L	31.4807	-49.233 ppb	31.4807	63.94%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	2.4	94.423 ug/L	32.0718	94.423 ppb	32.0718	33.97%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	258.5	0.2962 ug/L	0.09078	0.2962 ppb	0.09078	30.65%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	17.0	1.3175 ug/L	0.20903	1.3175 ppb	0.20903	15.87%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	66.9	23.479 ug/L	21.7834	23.479 ppb	21.7834	92.78%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	10.0	0.2678 ug/L	0.11956	0.2678 ppb	0.11956	44.64%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-10.6	-5.8753 ug/L	2.08261	-5.8753 ppb	2.08261	35.45%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-28.7	-3.7081 ug/L	2.00332	-3.7081 ppb	2.00332	54.03%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	47.7	61.903 ug/L	10.5039	61.903 ppb	10.5039	16.97%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-1.0	-0.3489 ug/L	0.63061	-0.3489 ppb	0.63061	180.72%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	7.7	4.3896 ug/L	1.48146	4.3896 ppb	1.48146	33.75%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	-119.1	-3.7678 ug/L	0.35153	-3.7678 ppb	0.35153	9.33%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-13.2	-2.4304 ug/L	0.65107	-2.4304 ppb	0.65107	26.79%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	17.2	0.1426 ug/L	0.37708	0.1426 ppb	0.37708	264.50%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	398.9	0.6549 ug/L	0.02392	0.6549 ppb	0.02392	3.65%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	-8.7	-2.8131 ug/L	1.58962	-2.8131 ppb	1.58962	56.51%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	309.8	9.9715 ug/L	1.90982	9.9715 ppb	1.90982	19.15%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	200.8	1.5999 ug/L	0.26410	1.5999 ppb	0.26410	16.51%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	33.1	0.3295 ug/L	0.17447	0.3295 ppb	0.17447	52.95%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	17.0	1.1042 ug/L	3.14608	1.1042 ppb	3.14608	284.93%	
QC value within limits for SiO2 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 35

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 2/17/2010 19:46:49

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3948.2	3948.2	99.3 %		19:49:01
1	Y RADIAL	4199.3	4199.3	101.7 %		19:48:41
1	Al 396.153Radial†	4717.3	4892.2	5038.0 ug/L	5038.0 ppb	19:48:41
1	Ca 317.933Radial†	2624.0	2618.1	5084.0 ug/L	5084.0 ppb	19:49:01
1	Fe 238.204 Radial†	463.6	455.8	5014.6 ug/L	5014.6 ppb	19:49:01
1	K 766.490 Radial†	25403.9	22373.6	4841.4 ug/L	4841.4 ppb	19:48:41
1	Mg 279.077 IEC†	133.3	132.9	5193.4 ug/L	5193.4 ppb	19:49:01
1	Na 589.592 Radial†	26655.6	26945.7	9451.1 ug/L	9451.1 ppb	19:48:41
1	Sr 421.552†	59067.4	59368.9	493.51 ug/L	493.51 ppb	19:48:41
1	Sc 361.383	838740.5	838740.5	105.40 %		19:49:58
1	Y 371.029	676229.9	676229.9	105.17 %		19:49:58
1	Ag 328.068†	99861.7	94557.9	488.11 ug/L	488.11 ppb	19:50:04
1	As 188.979†	1187.9	1154.6	493.12 ug/L	493.12 ppb	19:50:24
1	B 249.677†	21097.1	19957.8	473.96 ug/L	473.96 ppb	19:50:04
1	Ba 233.527†	60446.2	57341.7	482.59 ug/L	482.59 ppb	19:50:04
1	Be 313.107†	1384349.6	1317636.1	494.45 ug/L	494.45 ppb	19:49:58
1	Cd 226.502†	41349.2	39438.5	486.42 ug/L	486.42 ppb	19:50:04
1	Co 228.616†	24159.1	22999.3	484.86 ug/L	484.86 ppb	19:50:04
1	Cr 267.716†	41915.7	39070.2	483.62 ug/L	483.62 ppb	19:50:04
1	Cu 324.752†	173208.1	156011.8	485.40 ug/L	485.40 ppb	19:50:04
1	Mn 257.610†	441017.4	417862.5	485.88 ug/L	485.88 ppb	19:49:58
1	Mo 202.031†	6648.9	6287.0	487.77 ug/L	487.77 ppb	19:50:24
1	Ni 231.604†	19336.1	18253.5	487.60 ug/L	487.60 ppb	19:50:04
1	P 214.914†	4930.1	4434.1	2333.4 ug/L	2333.4 ppb	19:50:24
1	Pb 220.353†	3909.0	3724.6	483.14 ug/L	483.14 ppb	19:50:24
1	S 181.975 Axial†	882.7	775.8	1005.9 ug/L	1005.9 ppb	19:50:24
1	Sb 206.836†	1458.9	1340.1	488.76 ug/L	488.76 ppb	19:50:24
1	Se 196.026†	889.7	870.6	516.36 ug/L	516.36 ppb	19:50:24
1	Si 251.611†	81501.8	76658.7	2408.6 ug/L	2408.6 ppb	19:50:04
1	Sn 189.927†	2719.6	2544.5	470.72 ug/L	470.72 ppb	19:50:24
1	Ti 334.940†	303278.7	289337.1	479.77 ug/L	479.77 ppb	19:50:04
1	Tl 190.801†	1541.1	1483.5	481.33 ug/L	481.33 ppb	19:50:24
1	U 409.014†	12607.7	15534.4	497.46 ug/L	497.46 ppb	19:50:04
1	V 292.402†	65062.9	63500.1	499.19 ug/L	499.19 ppb	19:50:04
1	Zn 213.857†	52548.7	48993.5	484.79 ug/L	484.79 ppb	19:50:04
1	SiO2†	81500.9	76732.5	5134.4 ug/L	5134.4 ppb	19:51:31
2	Sc Radial	3945.8	3945.8	99.2 %		19:49:26
2	Y RADIAL	4171.1	4171.1	101.0 %		19:49:06
2	Al 396.153Radial†	4711.3	4889.1	5035.0 ug/L	5035.0 ppb	19:49:06
2	Ca 317.933Radial†	2612.4	2608.1	5064.5 ug/L	5064.5 ppb	19:49:26
2	Fe 238.204 Radial†	460.1	452.5	4978.7 ug/L	4978.7 ppb	19:49:26
2	K 766.490 Radial†	25262.0	22246.5	4813.9 ug/L	4813.9 ppb	19:49:06
2	Mg 279.077 IEC†	131.1	130.7	5110.5 ug/L	5110.5 ppb	19:49:26
2	Na 589.592 Radial†	26508.7	26814.4	9405.0 ug/L	9405.0 ppb	19:49:06
2	Sr 421.552†	58723.6	59059.4	490.93 ug/L	490.93 ppb	19:49:06
2	Sc 361.383	838576.8	838576.8	105.38 %		19:50:30
2	Y 371.029	673299.3	673299.3	104.71 %		19:50:30
2	Ag 328.068†	99028.3	93785.5	484.13 ug/L	484.13 ppb	19:50:35
2	As 188.979†	1185.9	1153.0	492.40 ug/L	492.40 ppb	19:50:55
2	B 249.677†	20930.3	19803.4	470.28 ug/L	470.28 ppb	19:50:35
2	Ba 233.527†	60201.8	57121.0	480.73 ug/L	480.73 ppb	19:50:35
2	Be 313.107†	1381196.6	1314900.6	493.42 ug/L	493.42 ppb	19:50:30
2	Cd 226.502†	41181.4	39287.0	484.55 ug/L	484.55 ppb	19:50:35
2	Co 228.616†	24117.2	22964.0	484.11 ug/L	484.11 ppb	19:50:35
2	Cr 267.716†	41728.8	38900.6	481.52 ug/L	481.52 ppb	19:50:35
2	Cu 324.752†	171630.5	154546.8	480.85 ug/L	480.85 ppb	19:50:35
2	Mn 257.610†	440508.5	417461.4	485.41 ug/L	485.41 ppb	19:50:30
2	Mo 202.031†	6600.1	6241.9	484.27 ug/L	484.27 ppb	19:50:55
2	Ni 231.604†	19303.6	18226.2	486.87 ug/L	486.87 ppb	19:50:35

2	P 214.914†	4896.7	4403.3	2317.4 ug/L	2317.4 ppb	19:50:55
2	Pb 220.353†	3855.6	3674.7	476.68 ug/L	476.68 ppb	19:50:55
2	S 181.975 Axial†	876.2	769.8	998.11 ug/L	998.11 ppb	19:50:55
2	Sb 206.836†	1453.8	1335.6	487.07 ug/L	487.07 ppb	19:50:55
2	Se 196.026†	868.5	850.7	504.77 ug/L	504.77 ppb	19:50:55
2	Si 251.611†	80993.5	76191.4	2393.9 ug/L	2393.9 ppb	19:50:35
2	Sn 189.927†	2703.1	2529.3	467.91 ug/L	467.91 ppb	19:50:55
2	Ti 334.940†	301209.5	287429.8	476.62 ug/L	476.62 ppb	19:50:35
2	Tl 190.801†	1541.3	1484.0	481.47 ug/L	481.47 ppb	19:50:55
2	U 409.014†	12460.8	15397.3	493.06 ug/L	493.06 ppb	19:50:35
2	V 292.402†	64664.6	63134.2	496.30 ug/L	496.30 ppb	19:50:35
2	Zn 213.857†	52233.6	48704.3	481.92 ug/L	481.92 ppb	19:50:35
2	SiO2†	81030.4	76301.1	5105.6 ug/L	5105.6 ppb	19:51:36
3	Sc Radial	3942.0	3942.0	99.1 %		19:49:51
3	Y RADIAL	4177.2	4177.2	101.1 %		19:49:31
3	Al 396.153Radial†	4714.8	4897.1	5043.3 ug/L	5043.3 ppb	19:49:31
3	Ca 317.933Radial†	2603.2	2601.3	5051.3 ug/L	5051.3 ppb	19:49:51
3	Fe 238.204 Radial†	457.8	450.7	4958.4 ug/L	4958.4 ppb	19:49:51
3	K 766.490 Radial†	25397.1	22407.1	4848.7 ug/L	4848.7 ppb	19:49:31
3	Mg 279.077 IEC†	132.3	132.1	5163.0 ug/L	5163.0 ppb	19:49:51
3	Na 589.592 Radial†	26698.8	27031.7	9481.2 ug/L	9481.2 ppb	19:49:31
3	Sr 421.552†	58737.2	59129.9	491.52 ug/L	491.52 ppb	19:49:31
3	Sc 361.383	840415.5	840415.5	105.61 %		19:51:01
3	Y 371.029	675396.4	675396.4	105.04 %		19:51:01
3	Ag 328.068†	99296.9	93834.2	484.37 ug/L	484.37 ppb	19:51:06
3	As 188.979†	1183.9	1148.7	490.54 ug/L	490.54 ppb	19:51:26
3	B 249.677†	20923.2	19753.3	469.09 ug/L	469.09 ppb	19:51:06
3	Ba 233.527†	60252.2	57043.8	480.08 ug/L	480.08 ppb	19:51:06
3	Be 313.107†	1384612.8	1315267.7	493.56 ug/L	493.56 ppb	19:51:01
3	Cd 226.502†	41257.9	39273.9	484.39 ug/L	484.39 ppb	19:51:06
3	Co 228.616†	24111.4	22908.5	482.95 ug/L	482.95 ppb	19:51:06
3	Cr 267.716†	41746.0	38830.3	480.65 ug/L	480.65 ppb	19:51:06
3	Cu 324.752†	172068.2	154604.9	481.03 ug/L	481.03 ppb	19:51:06
3	Mn 257.610†	441016.8	417028.1	484.90 ug/L	484.90 ppb	19:51:01
3	Mo 202.031†	6620.9	6247.9	484.73 ug/L	484.73 ppb	19:51:26
3	Ni 231.604†	19247.4	18132.9	484.38 ug/L	484.38 ppb	19:51:06
3	P 214.914†	4909.0	4404.8	2318.2 ug/L	2318.2 ppb	19:51:26
3	Pb 220.353†	3878.2	3688.1	478.42 ug/L	478.42 ppb	19:51:26
3	S 181.975 Axial†	874.2	766.1	993.31 ug/L	993.31 ppb	19:51:26
3	Sb 206.836†	1447.2	1326.3	483.79 ug/L	483.79 ppb	19:51:26
3	Se 196.026†	884.3	863.7	512.22 ug/L	512.22 ppb	19:51:26
3	Si 251.611†	81096.7	76121.0	2391.7 ug/L	2391.7 ppb	19:51:06
3	Sn 189.927†	2708.7	2529.0	467.85 ug/L	467.85 ppb	19:51:26
3	Ti 334.940†	301147.2	286745.4	475.48 ug/L	475.48 ppb	19:51:06
3	Tl 190.801†	1537.8	1477.4	479.36 ug/L	479.36 ppb	19:51:26
3	U 409.014†	12484.4	15393.8	492.95 ug/L	492.95 ppb	19:51:06
3	V 292.402†	64681.1	63015.5	495.39 ug/L	495.39 ppb	19:51:06
3	Zn 213.857†	52283.9	48643.4	481.33 ug/L	481.33 ppb	19:51:06
3	SiO2†	81161.3	76256.8	5102.6 ug/L	5102.6 ppb	19:51:41

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	839244.3	105.47 %	0.128			0.12%
Sc Radial	3945.3	99.2 %	0.08			0.08%
Y 371.029	674975.2	104.97 %	0.235			0.22%
Y RADIAL	4182.5	101.2 %	0.36			0.35%
Ag 328.068†	94059.2	485.53 ug/L	2.232	485.53 ppb	2.232	0.46%
QC value within limits for Ag 328.068 Recovery = 97.11%						
Al 396.153Radial†	4892.8	5038.8 ug/L	4.21	5038.8 ppb	4.21	0.08%
QC value within limits for Al 396.153Radial Recovery = 100.78%						
As 188.979†	1152.1	492.02 ug/L	1.331	492.02 ppb	1.331	0.27%
QC value within limits for As 188.979 Recovery = 98.40%						
B 249.677†	19838.2	471.11 ug/L	2.537	471.11 ppb	2.537	0.54%
QC value within limits for B 249.677 Recovery = 94.22%						
Ba 233.527†	57168.8	481.13 ug/L	1.303	481.13 ppb	1.303	0.27%
QC value within limits for Ba 233.527 Recovery = 96.23%						
Be 313.107†	1315934.8	493.81 ug/L	0.561	493.81 ppb	0.561	0.11%
QC value within limits for Be 313.107 Recovery = 98.76%						
Ca 317.933Radial†	2609.2	5066.6 ug/L	16.45	5066.6 ppb	16.45	0.32%

QC value within limits for Ca 317.933 Radial Recovery = 101.33%

Cd	226.502†	39333.1	485.12 ug/L	1.127	485.12 ppb	1.127	0.23%
QC value within limits for Cd 226.502 Recovery = 97.02%							
Co	228.616†	22957.3	483.97 ug/L	0.964	483.97 ppb	0.964	0.20%
QC value within limits for Co 228.616 Recovery = 96.79%							
Cr	267.716†	38933.7	481.93 ug/L	1.527	481.93 ppb	1.527	0.32%
QC value within limits for Cr 267.716 Recovery = 96.39%							
Cu	324.752†	155054.5	482.42 ug/L	2.581	482.42 ppb	2.581	0.53%
QC value within limits for Cu 324.752 Recovery = 96.48%							
Fe	238.204 Radial†	453.0	4983.9 ug/L	28.46	4983.9 ppb	28.46	0.57%
QC value within limits for Fe 238.204 Radial Recovery = 99.68%							
K	766.490 Radial†	22342.4	4834.7 ug/L	18.34	4834.7 ppb	18.34	0.38%
QC value within limits for K 766.490 Radial Recovery = 96.69%							
Mg	279.077 IEC†	131.9	5155.6 ug/L	41.96	5155.6 ppb	41.96	0.81%
QC value within limits for Mg 279.077 IEC Recovery = 103.11%							
Mn	257.610†	417450.7	485.40 ug/L	0.487	485.40 ppb	0.487	0.10%
QC value within limits for Mn 257.610 Recovery = 97.08%							
Mo	202.031†	6259.0	485.59 ug/L	1.901	485.59 ppb	1.901	0.39%
QC value within limits for Mo 202.031 Recovery = 97.12%							
Na	589.592 Radial†	26930.6	9445.8 ug/L	38.39	9445.8 ppb	38.39	0.41%
QC value within limits for Na 589.592 Radial Recovery = 94.46%							
Ni	231.604†	18204.2	486.28 ug/L	1.690	486.28 ppb	1.690	0.35%
QC value within limits for Ni 231.604 Recovery = 97.26%							
P	214.914†	4414.1	2323.0 ug/L	9.00	2323.0 ppb	9.00	0.39%
QC value within limits for P 214.914 Recovery = 92.92%							
Pb	220.353†	3695.8	479.41 ug/L	3.342	479.41 ppb	3.342	0.70%
QC value within limits for Pb 220.353 Recovery = 95.88%							
S	181.975 Axial†	770.5	999.12 ug/L	6.376	999.12 ppb	6.376	0.64%
QC value within limits for S 181.975 Axial Recovery = 99.91%							
Sb	206.836†	1334.0	486.54 ug/L	2.529	486.54 ppb	2.529	0.52%
QC value within limits for Sb 206.836 Recovery = 97.31%							
Se	196.026†	861.7	511.12 ug/L	5.872	511.12 ppb	5.872	1.15%
QC value within limits for Se 196.026 Recovery = 102.22%							
Si	251.611†	76323.7	2398.1 ug/L	9.18	2398.1 ppb	9.18	0.38%
QC value within limits for Si 251.611 Recovery = 95.92%							
Sn	189.927†	2534.3	468.83 ug/L	1.639	468.83 ppb	1.639	0.35%
QC value within limits for Sn 189.927 Recovery = 93.77%							
Sr	421.552†	59186.1	491.99 ug/L	1.348	491.99 ppb	1.348	0.27%
QC value within limits for Sr 421.552 Recovery = 98.40%							
Ti	334.940†	287837.4	477.29 ug/L	2.226	477.29 ppb	2.226	0.47%
QC value within limits for Ti 334.940 Recovery = 95.46%							
Tl	190.801†	1481.6	480.72 ug/L	1.179	480.72 ppb	1.179	0.25%
QC value within limits for Tl 190.801 Recovery = 96.14%							
U	409.014†	15441.8	494.49 ug/L	2.571	494.49 ppb	2.571	0.52%
QC value within limits for U 409.014 Recovery = 98.90%							
V	292.402†	63216.6	496.96 ug/L	1.983	496.96 ppb	1.983	0.40%
QC value within limits for V 292.402 Recovery = 99.39%							
Zn	213.857†	48780.4	482.68 ug/L	1.852	482.68 ppb	1.852	0.38%
QC value within limits for Zn 213.857 Recovery = 96.54%							
SiO2†		76430.1	5114.2 ug/L	17.58	5114.2 ppb	17.58	0.34%
QC value within limits for SiO2 Recovery = 95.64%							

All analyte(s) passed QC.

Sequence No.: 36

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/17/2010 19:53:52

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3917.8	3917.8	98.5 %		19:56:04
1	Y RADIAL	4196.2	4196.2	101.6 %		19:55:43
1	Al 396.153Radial†	-155.8	-16.2	-16.880 ug/L	-16.880 ppb	19:55:43
1	Ca 317.933Radial†	30.1	6.3	12.281 ug/L	12.281 ppb	19:56:04
1	Fe 238.204 Radial†	10.6	-0.2	-2.4816 ug/L	-2.4816 ppb	19:56:04
1	K 766.490 Radial†	3092.4	-69.8	-15.136 ug/L	-15.136 ppb	19:55:43
1	Mg 279.077 IEC†	2.2	0.9	34.142 ug/L	34.142 ppb	19:56:04
1	Na 589.592 Radial†	-127.9	-26.1	-9.1413 ug/L	-9.1413 ppb	19:55:43
1	Sr 421.552†	126.1	16.3	0.1355 ug/L	0.1355 ppb	19:55:43
1	Sc 361.383	813248.9	813248.9	102.20 %		19:57:00
1	Y 371.029	661200.1	661200.1	102.83 %		19:57:00
1	Ag 328.068†	285.3	93.5	0.4866 ug/L	0.4866 ppb	19:57:00
1	As 188.979†	-33.8	-5.4	-2.2848 ug/L	-2.2848 ppb	19:57:20
1	B 249.677†	-218.3	-271.6	-6.4831 ug/L	-6.4831 ppb	19:57:20
1	Ba 233.527†	55.5	47.9	0.4070 ug/L	0.4070 ppb	19:57:20
1	Be 313.107†	-1945.5	2334.8	0.8758 ug/L	0.8758 ppb	19:57:00
1	Cd 226.502†	-149.4	62.5	0.7715 ug/L	0.7715 ppb	19:57:20
1	Co 228.616†	-34.0	45.2	0.9584 ug/L	0.9584 ppb	19:57:20
1	Cr 267.716†	157.3	-543.2	-6.7135 ug/L	-6.7135 ppb	19:57:20
1	Cu 324.752†	8646.5	141.5	0.4390 ug/L	0.4390 ppb	19:57:00
1	Mn 257.610†	1180.6	603.7	0.7000 ug/L	0.7000 ppb	19:57:20
1	Mo 202.031†	48.4	26.2	2.0323 ug/L	2.0323 ppb	19:57:20
1	Ni 231.604†	115.1	21.0	0.5606 ug/L	0.5606 ppb	19:57:20
1	P 214.914†	255.0	6.2	3.2870 ug/L	3.2870 ppb	19:57:20
1	Pb 220.353†	-48.8	-31.7	-4.1013 ug/L	-4.1013 ppb	19:57:20
1	S 181.975 Axial†	82.3	18.8	24.438 ug/L	24.438 ppb	19:57:20
1	Sb 206.836†	41.4	-3.5	-1.2003 ug/L	-1.2003 ppb	19:57:20
1	Se 196.026†	-19.1	7.8	4.4723 ug/L	4.4723 ppb	19:57:20
1	Si 251.611†	561.3	-116.7	-3.7023 ug/L	-3.7023 ppb	19:57:20
1	Sn 189.927†	33.1	-3.3	-0.6005 ug/L	-0.6005 ppb	19:57:20
1	Ti 334.940†	-1198.9	429.2	0.7123 ug/L	0.7123 ppb	19:57:00
1	Tl 190.801†	-28.4	-6.4	-2.0753 ug/L	-2.0753 ppb	19:57:20
1	U 409.014†	-3584.7	65.3	2.1123 ug/L	2.1123 ppb	19:57:00
1	V 292.402†	-1500.3	303.8	2.3927 ug/L	2.3927 ppb	19:57:00
1	Zn 213.857†	998.1	114.7	1.1417 ug/L	1.1417 ppb	19:57:20
1	SiO2†	673.1	67.3	4.4609 ug/L	4.4609 ppb	19:58:16
2	Sc Radial	3900.0	3900.0	98.1 %		19:56:29
2	Y RADIAL	4204.7	4204.7	101.8 %		19:56:09
2	Al 396.153Radial†	-131.9	7.4	7.5943 ug/L	7.5943 ppb	19:56:09
2	Ca 317.933Radial†	33.8	10.2	19.783 ug/L	19.783 ppb	19:56:29
2	Fe 238.204 Radial†	11.7	0.9	10.368 ug/L	10.368 ppb	19:56:29
2	K 766.490 Radial†	3116.9	-30.5	-6.6035 ug/L	-6.6035 ppb	19:56:09
2	Mg 279.077 IEC†	4.9	3.6	142.30 ug/L	142.30 ppb	19:56:29
2	Na 589.592 Radial†	-141.5	-40.5	-14.218 ug/L	-14.218 ppb	19:56:09
2	Sr 421.552†	183.6	75.5	0.6272 ug/L	0.6272 ppb	19:56:09
2	Sc 361.383	813877.0	813877.0	102.28 %		19:57:26
2	Y 371.029	661110.3	661110.3	102.82 %		19:57:26
2	Ag 328.068†	306.9	114.5	0.5908 ug/L	0.5908 ppb	19:57:26
2	As 188.979†	-23.2	5.0	2.1040 ug/L	2.1040 ppb	19:57:46
2	B 249.677†	-245.0	-297.6	-7.1037 ug/L	-7.1037 ppb	19:57:46
2	Ba 233.527†	48.8	41.2	0.3510 ug/L	0.3510 ppb	19:57:46
2	Be 313.107†	-2086.8	2198.1	0.8244 ug/L	0.8244 ppb	19:57:26
2	Cd 226.502†	-151.6	60.4	0.7461 ug/L	0.7461 ppb	19:57:46
2	Co 228.616†	-45.1	34.3	0.7281 ug/L	0.7281 ppb	19:57:46
2	Cr 267.716†	157.6	-543.1	-6.7148 ug/L	-6.7148 ppb	19:57:46
2	Cu 324.752†	8623.3	112.3	0.3448 ug/L	0.3448 ppb	19:57:26
2	Mn 257.610†	1087.5	511.8	0.5900 ug/L	0.5900 ppb	19:57:46
2	Mo 202.031†	36.7	14.8	1.1452 ug/L	1.1452 ppb	19:57:46
2	Ni 231.604†	109.7	15.7	0.4188 ug/L	0.4188 ppb	19:57:46

2	P 214.914†	242.8	-6.0	-3.3711 ug/L	-3.3711 ppb	19:57:46
2	Pb 220.353†	-50.7	-33.6	-4.3409 ug/L	-4.3409 ppb	19:57:46
2	S 181.975 Axial†	83.1	19.6	25.420 ug/L	25.420 ppb	19:57:46
2	Sb 206.836†	36.1	-8.7	-3.0779 ug/L	-3.0779 ppb	19:57:46
2	Se 196.026†	-19.2	7.7	4.4390 ug/L	4.4390 ppb	19:57:46
2	Si 251.611†	557.6	-120.8	-3.8191 ug/L	-3.8191 ppb	19:57:46
2	Sn 189.927†	22.4	-13.8	-2.5473 ug/L	-2.5473 ppb	19:57:46
2	Ti 334.940†	-1271.2	359.5	0.5856 ug/L	0.5856 ppb	19:57:26
2	Tl 190.801†	-21.7	0.1	0.0456 ug/L	0.0456 ppb	19:57:46
2	U 409.014†	-3358.1	289.6	9.3185 ug/L	9.3185 ppb	19:57:26
2	V 292.402†	-1540.5	265.7	2.0985 ug/L	2.0985 ppb	19:57:26
2	Zn 213.857†	974.2	90.6	0.9003 ug/L	0.9003 ppb	19:57:46
2	SiO2†	582.9	-21.4	-1.4668 ug/L	-1.4668 ppb	19:58:21
3	Sc Radial	3925.5	3925.5	98.7 %		19:56:54
3	Y RADIAL	4175.2	4175.2	101.1 %		19:56:34
3	Al 396.153Radial†	-138.6	1.5	1.5442 ug/L	1.5442 ppb	19:56:34
3	Ca 317.933Radial†	30.1	6.3	12.198 ug/L	12.198 ppb	19:56:54
3	Fe 238.204 Radial†	10.2	-0.7	-8.0416 ug/L	-8.0416 ppb	19:56:54
3	K 766.490 Radial†	3054.7	-114.1	-24.720 ug/L	-24.720 ppb	19:56:34
3	Mg 279.077 IEC†	2.9	1.6	61.866 ug/L	61.866 ppb	19:56:54
3	Na 589.592 Radial†	-154.3	-52.6	-18.435 ug/L	-18.435 ppb	19:56:34
3	Sr 421.552†	155.9	46.3	0.3846 ug/L	0.3846 ppb	19:56:34
3	Sc 361.383	815055.8	815055.8	102.43 %		19:57:51
3	Y 371.029	661880.4	661880.4	102.94 %		19:57:51
3	Ag 328.068†	277.7	85.5	0.4366 ug/L	0.4366 ppb	19:57:51
3	As 188.979†	-29.2	-0.9	-0.3651 ug/L	-0.3651 ppb	19:58:11
3	B 249.677†	-256.8	-308.7	-7.3664 ug/L	-7.3664 ppb	19:58:11
3	Ba 233.527†	61.4	53.5	0.4536 ug/L	0.4536 ppb	19:58:11
3	Be 313.107†	-3285.6	1030.6	0.3870 ug/L	0.3870 ppb	19:57:51
3	Cd 226.502†	-159.1	53.3	0.6609 ug/L	0.6609 ppb	19:58:11
3	Co 228.616†	-47.8	31.8	0.6740 ug/L	0.6740 ppb	19:58:11
3	Cr 267.716†	150.9	-549.8	-6.7984 ug/L	-6.7984 ppb	19:58:11
3	Cu 324.752†	8565.6	43.8	0.1305 ug/L	0.1305 ppb	19:57:51
3	Mn 257.610†	1063.7	487.0	0.5627 ug/L	0.5627 ppb	19:58:11
3	Mo 202.031†	25.6	3.9	0.3007 ug/L	0.3007 ppb	19:58:11
3	Ni 231.604†	104.0	9.9	0.2654 ug/L	0.2654 ppb	19:58:11
3	P 214.914†	231.1	-17.7	-9.7402 ug/L	-9.7402 ppb	19:58:11
3	Pb 220.353†	-43.1	-26.1	-3.3772 ug/L	-3.3772 ppb	19:58:11
3	S 181.975 Axial†	86.9	23.2	30.079 ug/L	30.079 ppb	19:58:11
3	Sb 206.836†	39.8	-5.1	-1.8666 ug/L	-1.8666 ppb	19:58:11
3	Se 196.026†	-9.2	17.4	9.9946 ug/L	9.9946 ppb	19:58:11
3	Si 251.611†	564.9	-114.4	-3.6083 ug/L	-3.6083 ppb	19:58:11
3	Sn 189.927†	10.6	-25.4	-4.6925 ug/L	-4.6925 ppb	19:58:11
3	Ti 334.940†	-1344.7	289.5	0.4750 ug/L	0.4750 ppb	19:57:51
3	Tl 190.801†	-31.8	-9.7	-3.1356 ug/L	-3.1356 ppb	19:58:11
3	U 409.014†	-3352.8	299.5	9.6379 ug/L	9.6379 ppb	19:57:51
3	V 292.402†	-1534.4	273.8	2.1512 ug/L	2.1512 ppb	19:57:51
3	Zn 213.857†	978.1	93.0	0.9284 ug/L	0.9284 ppb	19:58:11
3	SiO2†	588.5	-16.7	-1.1312 ug/L	-1.1312 ppb	19:58:26

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	814060.6	102.30 %	0.115			0.11%
Sc Radial	3914.4	98.5 %	0.33			0.33%
Y 371.029	661396.9	102.86 %	0.065			0.06%
Y RADIAL	4192.1	101.5 %	0.37			0.36%
Ag 328.068†	97.8	0.5047 ug/L	0.07866	0.5047 ppb	0.07866	15.59%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-2.4	-2.5805 ug/L	12.74776	-2.5805 ppb	12.74776	494.01%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.4	-0.1819 ug/L	2.20016	-0.1819 ppb	2.20016	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-292.7	-6.9844 ug/L	0.45360	-6.9844 ppb	0.45360	6.49%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	47.5	0.4039 ug/L	0.05137	0.4039 ppb	0.05137	12.72%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	1854.5	0.6957 ug/L	0.26862	0.6957 ppb	0.26862	38.61%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	7.6	14.754 ug/L	4.3559	14.754 ppb	4.3559	29.52%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	58.7	0.7262 ug/L	0.05793	0.7262 ppb	0.05793	7.98%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	37.1	0.7869 ug/L	0.15103	0.7869 ppb	0.15103	19.19%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-545.4	-6.7422 ug/L	0.04864	-6.7422 ppb	0.04864	0.72%		
QC value less than the lower limit for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	99.2	0.3048 ug/L	0.15812	0.3048 ppb	0.15812	51.88%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-0.0	-0.0516 ug/L	9.44245	-0.0516 ppb	9.44245	>999.9%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	-71.5	-15.487 ug/L	9.0631	-15.487 ppb	9.0631	58.52%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	2.0	79.436 ug/L	56.1789	79.436 ppb	56.1789	70.72%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	534.2	0.6175 ug/L	0.07268	0.6175 ppb	0.07268	11.77%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	15.0	1.1594 ug/L	0.86589	1.1594 ppb	0.86589	74.68%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-39.7	-13.931 ug/L	4.6534	-13.931 ppb	4.6534	33.40%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	15.5	0.4149 ug/L	0.14761	0.4149 ppb	0.14761	35.58%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-5.8	-3.2748 ug/L	6.51418	-3.2748 ppb	6.51418	198.92%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	-30.5	-3.9398 ug/L	0.50175	-3.9398 ppb	0.50175	12.74%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	20.5	26.646 ug/L	3.0136	26.646 ppb	3.0136	11.31%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	-5.8	-2.0483 ug/L	0.95190	-2.0483 ppb	0.95190	46.47%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	11.0	6.3020 ug/L	3.19796	6.3020 ppb	3.19796	50.75%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-117.3	-3.7099 ug/L	0.10560	-3.7099 ppb	0.10560	2.85%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	-14.1	-2.6134 ug/L	2.04679	-2.6134 ppb	2.04679	78.32%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	46.0	0.3824 ug/L	0.24582	0.3824 ppb	0.24582	64.28%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	359.4	0.5910 ug/L	0.11872	0.5910 ppb	0.11872	20.09%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	-5.3	-1.7218 ug/L	1.61979	-1.7218 ppb	1.61979	94.08%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	218.1	7.0229 ug/L	4.25567	7.0229 ppb	4.25567	60.60%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	281.1	2.2142 ug/L	0.15686	2.2142 ppb	0.15686	7.08%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	99.4	0.9902 ug/L	0.13202	0.9902 ppb	0.13202	13.33%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		9.7	0.6209 ug/L	3.32970	0.6209 ppb	3.32970	536.23%		
QC value within limits for SiO2 Recovery = Not calculated									
QC Failed. Continue with analysis.									

Sequence No.: 44
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 2/17/2010 20:48:32
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3933.6	3933.6	98.9 %		20:50:44
1	Y RADIAL	4216.4	4216.4	102.1 %		20:50:24
1	Al 396.153Radial†	4764.1	4957.1	5105.3 ug/L	5105.3 ppb	20:50:24
1	Ca 317.933Radial†	2603.3	2607.0	5062.4 ug/L	5062.4 ppb	20:50:44
1	Fe 238.204 Radial†	461.6	455.5	5011.1 ug/L	5011.1 ppb	20:50:44
1	K 766.490 Radial†	25537.6	22603.5	4891.1 ug/L	4891.1 ppb	20:50:24
1	Mg 279.077 IEC†	135.4	135.5	5298.0 ug/L	5298.0 ppb	20:50:44
1	Na 589.592 Radial†	27944.6	28348.0	9942.9 ug/L	9942.9 ppb	20:50:24
1	Sr 421.552†	60470.7	61007.7	507.13 ug/L	507.13 ppb	20:50:24
1	Sc 361.383	837287.4	837287.4	105.22 %		20:51:41
1	Y 371.029	670915.9	670915.9	104.34 %		20:51:41
1	Ag 328.068†	99212.8	94105.6	485.78 ug/L	485.78 ppb	20:51:47
1	As 188.979†	1181.0	1150.1	491.17 ug/L	491.17 ppb	20:52:07
1	B 249.677†	20901.8	19806.9	470.36 ug/L	470.36 ppb	20:51:47
1	Ba 233.527†	60368.4	57367.3	482.80 ug/L	482.80 ppb	20:51:47
1	Be 313.107†	1380645.6	1316395.3	493.99 ug/L	493.99 ppb	20:51:41
1	Cd 226.502†	41170.3	39336.6	485.16 ug/L	485.16 ppb	20:51:47
1	Co 228.616†	23980.7	22869.5	482.12 ug/L	482.12 ppb	20:51:47
1	Cr 267.716†	41598.8	38838.1	480.74 ug/L	480.74 ppb	20:51:47
1	Cu 324.752†	170727.1	153939.0	478.96 ug/L	478.96 ppb	20:51:47
1	Mn 257.610†	440035.2	417655.2	485.63 ug/L	485.63 ppb	20:51:41
1	Mo 202.031†	6605.6	6256.8	485.43 ug/L	485.43 ppb	20:52:07
1	Ni 231.604†	19266.2	18218.9	486.68 ug/L	486.68 ppb	20:51:47
1	P 214.914†	4911.2	4424.2	2329.3 ug/L	2329.3 ppb	20:52:07
1	Pb 220.353†	3855.5	3680.2	477.41 ug/L	477.41 ppb	20:52:07
1	S 181.975 Axial†	854.7	750.6	973.24 ug/L	973.24 ppb	20:52:07
1	Sb 206.836†	1473.5	1356.4	494.53 ug/L	494.53 ppb	20:52:07
1	Se 196.026†	880.0	862.8	511.84 ug/L	511.84 ppb	20:52:07
1	Si 251.611†	81490.6	76782.2	2412.5 ug/L	2412.5 ppb	20:51:47
1	Sn 189.927†	2751.1	2579.0	477.08 ug/L	477.08 ppb	20:52:07
1	Ti 334.940†	302300.6	288906.9	479.05 ug/L	479.05 ppb	20:51:47
1	Tl 190.801†	1543.7	1488.5	482.96 ug/L	482.96 ppb	20:52:07
1	U 409.014†	12390.3	15348.5	491.49 ug/L	491.49 ppb	20:51:47
1	V 292.402†	64611.0	63177.8	496.65 ug/L	496.65 ppb	20:51:47
1	Zn 213.857†	51798.1	48366.7	478.55 ug/L	478.55 ppb	20:51:47
1	SiO2†	80822.9	76222.3	5100.3 ug/L	5100.3 ppb	20:53:14
2	Sc Radial	3970.5	3970.5	99.9 %		20:51:09
2	Y RADIAL	4182.3	4182.3	101.2 %		20:50:49
2	Al 396.153Radial†	4763.9	4912.2	5058.5 ug/L	5058.5 ppb	20:50:49
2	Ca 317.933Radial†	2644.9	2624.2	5095.7 ug/L	5095.7 ppb	20:51:09
2	Fe 238.204 Radial†	463.1	452.6	4980.1 ug/L	4980.1 ppb	20:51:09
2	K 766.490 Radial†	25686.2	22512.5	4871.4 ug/L	4871.4 ppb	20:50:49
2	Mg 279.077 IEC†	132.7	131.5	5140.4 ug/L	5140.4 ppb	20:51:09
2	Na 589.592 Radial†	27695.0	27835.7	9763.2 ug/L	9763.2 ppb	20:50:49
2	Sr 421.552†	60106.6	60075.3	499.38 ug/L	499.38 ppb	20:50:49
2	Sc 361.383	824447.2	824447.2	103.61 %		20:52:12
2	Y 371.029	662058.3	662058.3	102.96 %		20:52:12
2	Ag 328.068†	99314.2	95672.0	493.83 ug/L	493.83 ppb	20:52:18
2	As 188.979†	1187.3	1173.7	501.20 ug/L	501.20 ppb	20:52:38
2	B 249.677†	21025.2	20235.4	480.57 ug/L	480.57 ppb	20:52:18
2	Ba 233.527†	60220.0	58117.6	489.11 ug/L	489.11 ppb	20:52:18
2	Be 313.107†	1361191.6	1318054.3	494.63 ug/L	494.63 ppb	20:52:12
2	Cd 226.502†	41179.9	39955.3	492.80 ug/L	492.80 ppb	20:52:18
2	Co 228.616†	23943.8	23188.9	488.86 ug/L	488.86 ppb	20:52:18
2	Cr 267.716†	41502.7	39361.0	487.22 ug/L	487.22 ppb	20:52:18
2	Cu 324.752†	170633.6	156375.8	486.53 ug/L	486.53 ppb	20:52:18
2	Mn 257.610†	434797.2	419112.8	487.33 ug/L	487.33 ppb	20:52:12
2	Mo 202.031†	6610.2	6359.1	493.35 ug/L	493.35 ppb	20:52:38
2	Ni 231.604†	19204.2	18444.2	492.70 ug/L	492.70 ppb	20:52:18

2	P 214.914†	4919.8	4505.2	2372.2 ug/L	2372.2 ppb	20:52:38
2	Pb 220.353†	3850.5	3732.5	484.18 ug/L	484.18 ppb	20:52:38
2	S 181.975 Axial†	846.5	755.4	979.40 ug/L	979.40 ppb	20:52:38
2	Sb 206.836†	1475.1	1379.8	503.02 ug/L	503.02 ppb	20:52:38
2	Se 196.026†	885.7	881.3	522.41 ug/L	522.41 ppb	20:52:38
2	Si 251.611†	81677.2	78168.5	2456.1 ug/L	2456.1 ppb	20:52:18
2	Sn 189.927†	2741.7	2610.6	482.94 ug/L	482.94 ppb	20:52:38
2	Ti 334.940†	302246.5	293329.3	486.40 ug/L	486.40 ppb	20:52:18
2	Tl 190.801†	1524.9	1493.2	484.50 ug/L	484.50 ppb	20:52:38
2	U 409.014†	12332.1	15475.8	495.57 ug/L	495.57 ppb	20:52:18
2	V 292.402†	64374.2	63905.6	502.41 ug/L	502.41 ppb	20:52:18
2	Zn 213.857†	51824.6	49159.0	486.41 ug/L	486.41 ppb	20:52:18
2	SiO2†	81990.9	78545.9	5255.9 ug/L	5255.9 ppb	20:53:19
3	Sc Radial	3959.8	3959.8	99.6 %		20:51:34
3	Y RADIAL	4234.6	4234.6	102.5 %		20:51:14
3	Al 396.153Radial†	4802.0	4963.3	5111.6 ug/L	5111.6 ppb	20:51:14
3	Ca 317.933Radial†	2627.7	2614.1	5076.2 ug/L	5076.2 ppb	20:51:34
3	Fe 238.204 Radial†	459.8	450.6	4957.3 ug/L	4957.3 ppb	20:51:34
3	K 766.490 Radial†	25761.1	22657.2	4902.7 ug/L	4902.7 ppb	20:51:14
3	Mg 279.077 IEC†	132.0	131.2	5127.6 ug/L	5127.6 ppb	20:51:34
3	Na 589.592 Radial†	27901.4	28117.9	9862.2 ug/L	9862.2 ppb	20:51:14
3	Sr 421.552†	60603.0	60736.3	504.87 ug/L	504.87 ppb	20:51:14
3	Sc 361.383	836249.6	836249.6	105.09 %		20:52:44
3	Y 371.029	669375.5	669375.5	104.10 %		20:52:44
3	Ag 328.068†	98232.9	93290.2	481.56 ug/L	481.56 ppb	20:52:49
3	As 188.979†	1173.5	1144.3	488.67 ug/L	488.67 ppb	20:53:09
3	B 249.677†	20691.6	19631.6	466.20 ug/L	466.20 ppb	20:52:49
3	Ba 233.527†	59642.3	56747.6	477.58 ug/L	477.58 ppb	20:52:49
3	Be 313.107†	1377512.2	1315042.0	493.47 ug/L	493.47 ppb	20:52:44
3	Cd 226.502†	40670.3	38909.4	479.89 ug/L	479.89 ppb	20:52:49
3	Co 228.616†	23728.0	22657.4	477.66 ug/L	477.66 ppb	20:52:49
3	Cr 267.716†	41126.1	38437.3	475.78 ug/L	475.78 ppb	20:52:49
3	Cu 324.752†	168336.7	151865.8	472.50 ug/L	472.50 ppb	20:52:49
3	Mn 257.610†	440554.3	418668.2	486.81 ug/L	486.81 ppb	20:52:44
3	Mo 202.031†	6619.3	6277.6	487.04 ug/L	487.04 ppb	20:53:09
3	Ni 231.604†	18989.6	17978.4	480.25 ug/L	480.25 ppb	20:52:49
3	P 214.914†	4906.7	4425.8	2331.5 ug/L	2331.5 ppb	20:53:09
3	Pb 220.353†	3864.3	3693.1	479.10 ug/L	479.10 ppb	20:53:09
3	S 181.975 Axial†	855.4	752.3	975.45 ug/L	975.45 ppb	20:53:09
3	Sb 206.836†	1474.5	1359.1	495.47 ug/L	495.47 ppb	20:53:09
3	Se 196.026†	874.9	859.0	509.48 ug/L	509.48 ppb	20:53:09
3	Si 251.611†	80635.5	76064.6	2389.9 ug/L	2389.9 ppb	20:52:49
3	Sn 189.927†	2732.1	2564.1	474.34 ug/L	474.34 ppb	20:53:09
3	Ti 334.940†	298678.2	285816.5	473.94 ug/L	473.94 ppb	20:52:49
3	Tl 190.801†	1539.8	1486.6	482.35 ug/L	482.35 ppb	20:53:09
3	U 409.014†	12291.0	15268.7	488.94 ug/L	488.94 ppb	20:52:49
3	V 292.402†	63757.7	62442.0	490.97 ug/L	490.97 ppb	20:52:49
3	Zn 213.857†	51261.1	47916.8	474.11 ug/L	474.11 ppb	20:52:49
3	SiO2†	80992.2	76478.7	5117.4 ug/L	5117.4 ppb	20:53:24

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	832661.4	104.64 %	0.896			0.86%
Sc Radial	3954.7	99.5 %	0.48			0.48%
Y 371.029	667449.9	103.80 %	0.736			0.71%
Y RADIAL	4211.1	101.9 %	0.64			0.63%
Ag 328.068†	94355.9	487.06 ug/L	6.231	487.06 ppb	6.231	1.28%
QC value within limits for Ag 328.068 Recovery = 97.41%						
Al 396.153Radial†	4944.2	5091.8 ug/L	29.04	5091.8 ppb	29.04	0.57%
QC value within limits for Al 396.153Radial Recovery = 101.84%						
As 188.979†	1156.0	493.68 ug/L	6.633	493.68 ppb	6.633	1.34%
QC value within limits for As 188.979 Recovery = 98.74%						
B 249.677†	19891.3	472.38 ug/L	7.394	472.38 ppb	7.394	1.57%
QC value within limits for B 249.677 Recovery = 94.48%						
Ba 233.527†	57410.8	483.16 ug/L	5.772	483.16 ppb	5.772	1.19%
QC value within limits for Ba 233.527 Recovery = 96.63%						
Be 313.107†	1316497.2	494.03 ug/L	0.579	494.03 ppb	0.579	0.12%
QC value within limits for Be 313.107 Recovery = 98.81%						
Ca 317.933Radial†	2615.1	5078.1 ug/L	16.76	5078.1 ppb	16.76	0.33%

QC value within limits for Ca 317.933 Radial Recovery = 101.56%

Cd 226.502†	39400.5	485.95 ug/L	6.491	485.95 ppb	6.491	1.34%
QC value within limits for Cd 226.502 Recovery = 97.19%						
Co 228.616†	22905.3	482.88 ug/L	5.634	482.88 ppb	5.634	1.17%
QC value within limits for Co 228.616 Recovery = 96.58%						
Cr 267.716†	38878.8	481.25 ug/L	5.733	481.25 ppb	5.733	1.19%
QC value within limits for Cr 267.716 Recovery = 96.25%						
Cu 324.752†	154060.2	479.33 ug/L	7.023	479.33 ppb	7.023	1.47%
QC value within limits for Cu 324.752 Recovery = 95.87%						
Fe 238.204 Radial†	452.9	4982.8 ug/L	26.99	4982.8 ppb	26.99	0.54%
QC value within limits for Fe 238.204 Radial Recovery = 99.66%						
K 766.490 Radial†	22591.1	4888.4 ug/L	15.84	4888.4 ppb	15.84	0.32%
QC value within limits for K 766.490 Radial Recovery = 97.77%						
Mg 279.077 IEC†	132.7	5188.7 ug/L	94.89	5188.7 ppb	94.89	1.83%
QC value within limits for Mg 279.077 IEC Recovery = 103.77%						
Mn 257.610†	418478.7	486.59 ug/L	0.870	486.59 ppb	0.870	0.18%
QC value within limits for Mn 257.610 Recovery = 97.32%						
Mo 202.031†	6297.8	488.60 ug/L	4.189	488.60 ppb	4.189	0.86%
QC value within limits for Mo 202.031 Recovery = 97.72%						
Na 589.592 Radial†	28100.5	9856.1 ug/L	90.01	9856.1 ppb	90.01	0.91%
QC value within limits for Na 589.592 Radial Recovery = 98.56%						
Ni 231.604†	18213.8	486.54 ug/L	6.223	486.54 ppb	6.223	1.28%
QC value within limits for Ni 231.604 Recovery = 97.31%						
P 214.914†	4451.7	2344.4 ug/L	24.17	2344.4 ppb	24.17	1.03%
QC value within limits for P 214.914 Recovery = 93.77%						
Pb 220.353†	3702.0	480.23 ug/L	3.524	480.23 ppb	3.524	0.73%
QC value within limits for Pb 220.353 Recovery = 96.05%						
S 181.975 Axial†	752.8	976.03 ug/L	3.123	976.03 ppb	3.123	0.32%
QC value within limits for S 181.975 Axial Recovery = 97.60%						
Sb 206.836†	1365.1	497.67 ug/L	4.656	497.67 ppb	4.656	0.94%
QC value within limits for Sb 206.836 Recovery = 99.53%						
Se 196.026†	867.7	514.58 ug/L	6.885	514.58 ppb	6.885	1.34%
QC value within limits for Se 196.026 Recovery = 102.92%						
Si 251.611†	77005.1	2419.5 ug/L	33.64	2419.5 ppb	33.64	1.39%
QC value within limits for Si 251.611 Recovery = 96.78%						
Sn 189.927†	2584.5	478.12 ug/L	4.395	478.12 ppb	4.395	0.92%
QC value within limits for Sn 189.927 Recovery = 95.62%						
Sr 421.552†	60606.4	503.80 ug/L	3.987	503.80 ppb	3.987	0.79%
QC value within limits for Sr 421.552 Recovery = 100.76%						
Ti 334.940†	289350.9	479.80 ug/L	6.261	479.80 ppb	6.261	1.30%
QC value within limits for Ti 334.940 Recovery = 95.96%						
Tl 190.801†	1489.4	483.27 ug/L	1.112	483.27 ppb	1.112	0.23%
QC value within limits for Tl 190.801 Recovery = 96.65%						
U 409.014†	15364.3	492.00 ug/L	3.342	492.00 ppb	3.342	0.68%
QC value within limits for U 409.014 Recovery = 98.40%						
V 292.402†	63175.1	496.68 ug/L	5.718	496.68 ppb	5.718	1.15%
QC value within limits for V 292.402 Recovery = 99.34%						
Zn 213.857†	48480.9	479.69 ug/L	6.232	479.69 ppb	6.232	1.30%
QC value within limits for Zn 213.857 Recovery = 95.94%						
SiO2†	77082.3	5157.9 ug/L	85.35	5157.9 ppb	85.35	1.65%
QC value within limits for SiO2 Recovery = 96.45%						

All analyte(s) passed QC.

Sequence No.: 45

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/17/2010 20:55:34

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3920.7	3920.7	98.6 %		20:57:46
1	Y RADIAL	4197.4	4197.4	101.6 %		20:57:26
1	Al 396.153Radial†	-138.8	1.2	1.1692 ug/L	1.1692 ppb	20:57:26
1	Ca 317.933Radial†	28.9	5.0	9.7289 ug/L	9.7289 ppb	20:57:46
1	Fe 238.204 Radial†	12.2	1.4	14.986 ug/L	14.986 ppb	20:57:46
1	K 766.490 Radial†	3056.5	-108.6	-23.518 ug/L	-23.518 ppb	20:57:26
1	Mg 279.077 IEC†	1.4	0.1	3.7052 ug/L	3.7052 ppb	20:57:46
1	Na 589.592 Radial†	-152.1	-50.6	-17.745 ug/L	-17.745 ppb	20:57:26
1	Sr 421.552†	140.4	30.7	0.2553 ug/L	0.2553 ppb	20:57:26
1	Sc 361.383	826184.5	826184.5	103.82 %		20:58:43
1	Y 371.029	669468.3	669468.3	104.12 %		20:58:43
1	Ag 328.068†	213.6	20.1	0.1052 ug/L	0.1052 ppb	20:58:43
1	As 188.979†	-27.4	1.3	0.5556 ug/L	0.5556 ppb	20:59:03
1	B 249.677†	-266.4	-314.6	-7.5119 ug/L	-7.5119 ppb	20:59:03
1	Ba 233.527†	53.7	45.3	0.3844 ug/L	0.3844 ppb	20:59:03
1	Be 313.107†	-2852.8	1490.7	0.5597 ug/L	0.5597 ppb	20:58:43
1	Cd 226.502†	-172.5	42.5	0.5257 ug/L	0.5257 ppb	20:59:03
1	Co 228.616†	-27.7	51.8	1.0961 ug/L	1.0961 ppb	20:59:03
1	Cr 267.716†	172.7	-530.8	-6.5645 ug/L	-6.5645 ppb	20:59:03
1	Cu 324.752†	8586.5	-48.7	-0.1569 ug/L	-0.1569 ppb	20:58:43
1	Mn 257.610†	1222.0	625.6	0.7283 ug/L	0.7283 ppb	20:59:03
1	Mo 202.031†	35.3	12.9	1.0002 ug/L	1.0002 ppb	20:59:03
1	Ni 231.604†	145.2	48.3	1.2904 ug/L	1.2904 ppb	20:59:03
1	P 214.914†	244.9	-7.4	-4.0753 ug/L	-4.0753 ppb	20:59:03
1	Pb 220.353†	-49.0	-31.2	-4.0321 ug/L	-4.0321 ppb	20:59:03
1	S 181.975 Axial†	72.6	8.3	10.715 ug/L	10.715 ppb	20:59:03
1	Sb 206.836†	42.4	-3.1	-1.0970 ug/L	-1.0970 ppb	20:59:03
1	Se 196.026†	-20.2	7.0	4.0662 ug/L	4.0662 ppb	20:59:03
1	Si 251.611†	592.9	-94.8	-2.9997 ug/L	-2.9997 ppb	20:59:03
1	Sn 189.927†	27.1	-9.6	-1.7685 ug/L	-1.7685 ppb	20:59:03
1	Ti 334.940†	-1228.2	419.4	0.6942 ug/L	0.6942 ppb	20:58:43
1	Tl 190.801†	-30.9	-8.5	-2.7236 ug/L	-2.7236 ppb	20:59:03
1	U 409.014†	-3358.4	338.2	10.880 ug/L	10.880 ppb	20:58:43
1	V 292.402†	-1631.2	200.7	1.5919 ug/L	1.5919 ppb	20:58:43
1	Zn 213.857†	966.7	69.3	0.6814 ug/L	0.6814 ppb	20:59:03
1	SiO2†	584.3	-28.5	-1.9364 ug/L	-1.9364 ppb	20:59:59
2	Sc Radial	4023.4	4023.4	101 %		20:58:11
2	Y RADIAL	4263.4	4263.4	103.2 %		20:57:51
2	Al 396.153Radial†	-146.3	-2.7	-2.7920 ug/L	-2.7920 ppb	20:57:51
2	Ca 317.933Radial†	32.5	7.9	15.267 ug/L	15.267 ppb	20:58:11
2	Fe 238.204 Radial†	10.9	-0.3	-3.2915 ug/L	-3.2915 ppb	20:58:11
2	K 766.490 Radial†	3099.4	-145.2	-31.468 ug/L	-31.468 ppb	20:57:51
2	Mg 279.077 IEC†	4.0	2.6	103.18 ug/L	103.18 ppb	20:58:11
2	Na 589.592 Radial†	-157.7	-52.2	-18.303 ug/L	-18.303 ppb	20:57:51
2	Sr 421.552†	105.0	-7.9	-0.0655 ug/L	-0.0655 ppb	20:57:51
2	Sc 361.383	813213.1	813213.1	102.19 %		20:59:08
2	Y 371.029	660741.6	660741.6	102.76 %		20:59:08
2	Ag 328.068†	764.7	562.6	2.8828 ug/L	2.8828 ppb	20:59:08
2	As 188.979†	-25.1	3.1	1.3211 ug/L	1.3211 ppb	20:59:28
2	B 249.677†	-316.5	-367.7	-8.7737 ug/L	-8.7737 ppb	20:59:28
2	Ba 233.527†	29.8	22.7	0.1916 ug/L	0.1916 ppb	20:59:28
2	Be 313.107†	-3868.6	452.9	0.1713 ug/L	0.1713 ppb	20:59:08
2	Cd 226.502†	-179.3	33.1	0.4104 ug/L	0.4104 ppb	20:59:28
2	Co 228.616†	-66.0	13.9	0.2973 ug/L	0.2973 ppb	20:59:28
2	Cr 267.716†	136.0	-564.1	-6.9752 ug/L	-6.9752 ppb	20:59:28
2	Cu 324.752†	8438.9	-61.2	-0.1933 ug/L	-0.1933 ppb	20:59:08
2	Mn 257.610†	724.8	157.8	0.1788 ug/L	0.1788 ppb	20:59:28
2	Mo 202.031†	34.1	12.3	0.9496 ug/L	0.9496 ppb	20:59:28
2	Ni 231.604†	104.2	10.4	0.2774 ug/L	0.2774 ppb	20:59:28

2	P 214.914†	245.9	-2.7	-1.4597 ug/L	-1.4597 ppb	20:59:28
2	Pb 220.353†	-42.1	-25.2	-3.2553 ug/L	-3.2553 ppb	20:59:28
2	S 181.975 Axial†	75.3	12.0	15.516 ug/L	15.516 ppb	20:59:28
2	Sb 206.836†	40.6	-4.3	-1.5333 ug/L	-1.5333 ppb	20:59:28
2	Se 196.026†	-21.2	5.7	3.2904 ug/L	3.2904 ppb	20:59:28
2	Si 251.611†	581.1	-97.3	-3.0771 ug/L	-3.0771 ppb	20:59:28
2	Sn 189.927†	22.9	-13.3	-2.4501 ug/L	-2.4501 ppb	20:59:28
2	Ti 334.940†	-1168.2	459.3	0.7558 ug/L	0.7558 ppb	20:59:08
2	Tl 190.801†	-43.4	-21.1	-6.7982 ug/L	-6.7982 ppb	20:59:28
2	U 409.014†	-3499.0	149.0	4.8042 ug/L	4.8042 ppb	20:59:08
2	V 292.402†	-1752.9	56.6	0.4660 ug/L	0.4660 ppb	20:59:08
2	Zn 213.857†	905.2	23.9	0.2377 ug/L	0.2377 ppb	20:59:28
2	SiO2†	657.4	52.0	3.4655 ug/L	3.4655 ppb	21:00:04
3	Sc Radial	4013.9	4013.9	101 %		20:58:36
3	Y RADIAL	4244.8	4244.8	102.8 %		20:58:16
3	Al 396.153Radial†	-144.5	-1.2	-1.3180 ug/L	-1.3180 ppb	20:58:16
3	Ca 317.933Radial†	28.1	3.5	6.8543 ug/L	6.8543 ppb	20:58:36
3	Fe 238.204 Radial†	12.2	1.0	11.271 ug/L	11.271 ppb	20:58:36
3	K 766.490 Radial†	3005.7	-230.8	-49.998 ug/L	-49.998 ppb	20:58:16
3	Mg 279.077 IEC†	1.1	-0.3	-10.214 ug/L	-10.214 ppb	20:58:36
3	Na 589.592 Radial†	-151.1	-46.0	-16.134 ug/L	-16.134 ppb	20:58:16
3	Sr 421.552†	85.1	-27.4	-0.2279 ug/L	-0.2279 ppb	20:58:16
3	Sc 361.383	819177.6	819177.6	102.94 %		20:59:33
3	Y 371.029	663294.1	663294.1	103.16 %		20:59:33
3	Ag 328.068†	212.2	20.5	0.1093 ug/L	0.1093 ppb	20:59:33
3	As 188.979†	-29.8	-1.3	-0.5315 ug/L	-0.5315 ppb	20:59:54
3	B 249.677†	-352.6	-400.6	-9.5602 ug/L	-9.5602 ppb	20:59:54
3	Ba 233.527†	17.6	10.6	0.0928 ug/L	0.0928 ppb	20:59:54
3	Be 313.107†	-3919.6	430.9	0.1624 ug/L	0.1624 ppb	20:59:33
3	Cd 226.502†	-185.8	28.1	0.3471 ug/L	0.3471 ppb	20:59:54
3	Co 228.616†	-58.3	21.9	0.4647 ug/L	0.4647 ppb	20:59:54
3	Cr 267.716†	128.7	-572.1	-7.0732 ug/L	-7.0732 ppb	20:59:54
3	Cu 324.752†	8516.6	-45.9	-0.1457 ug/L	-0.1457 ppb	20:59:33
3	Mn 257.610†	708.7	137.0	0.1607 ug/L	0.1607 ppb	20:59:54
3	Mo 202.031†	30.5	8.5	0.6607 ug/L	0.6607 ppb	20:59:54
3	Ni 231.604†	106.8	12.2	0.3255 ug/L	0.3255 ppb	20:59:54
3	P 214.914†	243.2	-7.1	-3.8920 ug/L	-3.8920 ppb	20:59:54
3	Pb 220.353†	-51.4	-33.9	-4.3848 ug/L	-4.3848 ppb	20:59:54
3	S 181.975 Axial†	82.2	18.1	23.547 ug/L	23.547 ppb	20:59:54
3	Sb 206.836†	48.6	3.3	1.0976 ug/L	1.0976 ppb	20:59:54
3	Se 196.026†	-18.0	8.9	5.1765 ug/L	5.1765 ppb	20:59:54
3	Si 251.611†	582.5	-100.1	-3.1624 ug/L	-3.1624 ppb	20:59:54
3	Sn 189.927†	13.7	-22.4	-4.1423 ug/L	-4.1423 ppb	20:59:54
3	Ti 334.940†	-1356.5	284.6	0.4736 ug/L	0.4736 ppb	20:59:33
3	Tl 190.801†	-31.6	-9.3	-3.0086 ug/L	-3.0086 ppb	20:59:54
3	U 409.014†	-3478.2	194.1	6.2505 ug/L	6.2505 ppb	20:59:33
3	V 292.402†	-1629.5	189.0	1.4877 ug/L	1.4877 ppb	20:59:33
3	Zn 213.857†	912.7	24.7	0.2433 ug/L	0.2433 ppb	20:59:54
3	SiO2†	819.3	204.6	13.710 ug/L	13.710 ppb	21:00:09

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	819525.1	102.99 %	0.816			0.79%
Sc Radial	3986.0	100 %	1.4			1.42%
Y 371.029	664501.3	103.34 %	0.698			0.68%
Y RADIAL	4235.2	102.5 %	0.82			0.80%
Ag 328.068†	201.1	1.0324 ug/L	1.60245	1.0324 ppb	1.60245	155.21%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-0.9	-0.9803 ug/L	2.00209	-0.9803 ppb	2.00209	204.24%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.0	0.4484 ug/L	0.93094	0.4484 ppb	0.93094	207.61%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-361.0	-8.6153 ug/L	1.03333	-8.6153 ppb	1.03333	11.99%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	26.2	0.2229 ug/L	0.14830	0.2229 ppb	0.14830	66.52%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	791.5	0.2978 ug/L	0.22687	0.2978 ppb	0.22687	76.18%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	5.5	10.617 ug/L	4.2761	10.617 ppb	4.2761	40.28%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated

Cd 226.502†	34.6	0.4277 ug/L	0.09053	0.4277 ppb	0.09053	21.16%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	29.2	0.6194 ug/L	0.42126	0.6194 ppb	0.42126	68.01%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-555.7	-6.8710 ug/L	0.26992	-6.8710 ppb	0.26992	3.93%
QC value less than the lower limit for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-52.0	-0.1653 ug/L	0.02489	-0.1653 ppb	0.02489	15.06%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.7	7.6550 ug/L	9.66016	7.6550 ppb	9.66016	126.19%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-161.5	-34.995 ug/L	13.5875	-34.995 ppb	13.5875	38.83%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.8	32.225 ug/L	61.8453	32.225 ppb	61.8453	191.92%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	306.8	0.3559 ug/L	0.32259	0.3559 ppb	0.32259	90.63%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	11.2	0.8702 ug/L	0.18313	0.8702 ppb	0.18313	21.05%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-49.6	-17.394 ug/L	1.1264	-17.394 ppb	1.1264	6.48%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	23.6	0.6311 ug/L	0.57147	0.6311 ppb	0.57147	90.55%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-5.7	-3.1423 ug/L	1.46010	-3.1423 ppb	1.46010	46.47%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-30.1	-3.8907 ug/L	0.57787	-3.8907 ppb	0.57787	14.85%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	12.8	16.593 ug/L	6.4832	16.593 ppb	6.4832	39.07%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-1.4	-0.5109 ug/L	1.41001	-0.5109 ppb	1.41001	275.99%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	7.2	4.1777 ug/L	0.94797	4.1777 ppb	0.94797	22.69%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	-97.4	-3.0797 ug/L	0.08140	-3.0797 ppb	0.08140	2.64%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-15.1	-2.7869 ug/L	1.22223	-2.7869 ppb	1.22223	43.86%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-1.5	-0.0127 ug/L	0.24587	-0.0127 ppb	0.24587	>999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	387.7	0.6412 ug/L	0.14835	0.6412 ppb	0.14835	23.14%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-13.0	-4.1768 ug/L	2.27466	-4.1768 ppb	2.27466	54.46%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	227.1	7.3114 ug/L	3.17357	7.3114 ppb	3.17357	43.41%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	148.8	1.1819 ug/L	0.62212	1.1819 ppb	0.62212	52.64%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	39.3	0.3875 ug/L	0.25457	0.3875 ppb	0.25457	65.70%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	76.1	5.0797 ug/L	7.94710	5.0797 ppb	7.94710	156.45%
QC value within limits for SiO2 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 52

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 2/17/2010 21:43:59

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	3942.0	3942.0	99.1 %		21:46:11
1	Y RADIAL	4229.2	4229.2	102.4 %		21:45:51
1	Al 396.153Radial†	4784.1	4967.0	5115.1 ug/L	5115.1 ppb	21:45:51
1	Ca 317.933Radial†	2647.4	2645.9	5137.9 ug/L	5137.9 ppb	21:46:11
1	Fe 238.204 Radial†	467.3	460.3	5064.2 ug/L	5064.2 ppb	21:46:11
1	K 766.490 Radial†	26064.2	23080.0	4994.2 ug/L	4994.2 ppb	21:45:51
1	Mg 279.077 IEC†	131.5	131.3	5132.9 ug/L	5132.9 ppb	21:46:11
1	Na 589.592 Radial†	28439.5	28787.5	10097 ug/L	10097 ppb	21:45:51
1	Sr 421.552†	61149.0	61562.5	511.74 ug/L	511.74 ppb	21:45:51
1	Sc 361.383	825696.9	825696.9	103.76 %		21:47:10
1	Y 371.029	665261.3	665261.3	103.46 %		21:47:10
1	Ag 328.068†	98579.2	94818.6	489.49 ug/L	489.49 ppb	21:47:10
1	As 188.979†	1192.1	1176.5	502.49 ug/L	502.49 ppb	21:47:30
1	B 249.677†	20925.2	20108.3	477.54 ug/L	477.54 ppb	21:47:10
1	Ba 233.527†	60771.7	58561.4	492.83 ug/L	492.83 ppb	21:47:10
1	Be 313.107†	1376107.4	1330440.8	499.28 ug/L	499.28 ppb	21:47:10
1	Cd 226.502†	40270.0	39018.2	481.22 ug/L	481.22 ppb	21:47:30
1	Co 228.616†	23680.9	22900.5	482.76 ug/L	482.76 ppb	21:47:30
1	Cr 267.716†	41659.8	39451.9	488.35 ug/L	488.35 ppb	21:47:10
1	Cu 324.752†	170248.6	155755.5	484.62 ug/L	484.62 ppb	21:47:10
1	Mn 257.610†	438535.3	422080.2	490.78 ug/L	490.78 ppb	21:47:10
1	Mo 202.031†	6643.8	6381.8	495.12 ug/L	495.12 ppb	21:47:30
1	Ni 231.604†	19055.1	18272.5	488.11 ug/L	488.11 ppb	21:47:30
1	P 214.914†	4920.1	4498.4	2368.8 ug/L	2368.8 ppb	21:47:30
1	Pb 220.353†	3874.7	3750.2	486.48 ug/L	486.48 ppb	21:47:30
1	S 181.975 Axial†	852.1	759.5	984.75 ug/L	984.75 ppb	21:47:30
1	Sb 206.836†	1457.5	1360.6	496.23 ug/L	496.23 ppb	21:47:30
1	Se 196.026†	880.8	875.3	519.24 ug/L	519.24 ppb	21:47:30
1	Si 251.611†	81422.7	77803.9	2444.6 ug/L	2444.6 ppb	21:47:10
1	Sn 189.927†	2729.9	2595.2	480.09 ug/L	480.09 ppb	21:47:30
1	Ti 334.940†	308084.4	298513.9	495.02 ug/L	495.02 ppb	21:47:10
1	Tl 190.801†	1543.0	1508.4	489.51 ug/L	489.51 ppb	21:47:30
1	U 409.014†	11503.9	14659.6	469.33 ug/L	469.33 ppb	21:47:10
1	V 292.402†	64323.3	63762.5	501.25 ug/L	501.25 ppb	21:47:10
1	Zn 213.857†	51945.9	49200.2	486.84 ug/L	486.84 ppb	21:47:10
1	SiO2†	81795.4	78237.8	5235.2 ug/L	5235.2 ppb	21:48:30
2	Sc Radial	3937.9	3937.9	99.0 %		21:46:36
2	Y RADIAL	4195.0	4195.0	101.5 %		21:46:16
2	Al 396.153Radial†	4780.0	4968.0	5116.3 ug/L	5116.3 ppb	21:46:16
2	Ca 317.933Radial†	2645.3	2646.6	5139.3 ug/L	5139.3 ppb	21:46:36
2	Fe 238.204 Radial†	466.8	460.3	5063.4 ug/L	5063.4 ppb	21:46:36
2	K 766.490 Radial†	25974.4	23016.7	4980.6 ug/L	4980.6 ppb	21:46:16
2	Mg 279.077 IEC†	131.9	131.8	5152.9 ug/L	5152.9 ppb	21:46:36
2	Na 589.592 Radial†	28016.3	28390.0	9957.6 ug/L	9957.6 ppb	21:46:16
2	Sr 421.552†	60481.8	60953.1	506.68 ug/L	506.68 ppb	21:46:16
2	Sc 361.383	830271.2	830271.2	104.34 %		21:47:37
2	Y 371.029	668532.7	668532.7	103.97 %		21:47:37
2	Ag 328.068†	99014.7	94712.5	488.93 ug/L	488.93 ppb	21:47:37
2	As 188.979†	1171.5	1150.5	491.48 ug/L	491.48 ppb	21:47:58
2	B 249.677†	21079.0	20144.6	478.43 ug/L	478.43 ppb	21:47:37
2	Ba 233.527†	60811.8	58277.1	490.44 ug/L	490.44 ppb	21:47:37
2	Be 313.107†	1379725.5	1326601.8	497.85 ug/L	497.85 ppb	21:47:37
2	Cd 226.502†	40091.3	38633.1	476.47 ug/L	476.47 ppb	21:47:58
2	Co 228.616†	23589.5	22687.3	478.26 ug/L	478.26 ppb	21:47:58
2	Cr 267.716†	41667.8	39238.3	485.70 ug/L	485.70 ppb	21:47:37
2	Cu 324.752†	172172.9	156695.8	487.54 ug/L	487.54 ppb	21:47:37
2	Mn 257.610†	439639.1	420809.7	489.31 ug/L	489.31 ppb	21:47:37
2	Mo 202.031†	6629.8	6333.0	491.34 ug/L	491.34 ppb	21:47:58
2	Ni 231.604†	18970.8	18090.5	483.25 ug/L	483.25 ppb	21:47:58

2	P 214.914†	4897.2	4450.2	2341.8 ug/L	2341.8 ppb	21:47:58
2	Pb 220.353†	3858.0	3713.6	481.74 ug/L	481.74 ppb	21:47:58
2	S 181.975 Axial†	856.7	759.4	984.61 ug/L	984.61 ppb	21:47:58
2	Sb 206.836†	1451.2	1346.9	491.23 ug/L	491.23 ppb	21:47:58
2	Se 196.026†	882.5	872.3	517.45 ug/L	517.45 ppb	21:47:58
2	Si 251.611†	81899.3	77828.4	2445.4 ug/L	2445.4 ppb	21:47:37
2	Sn 189.927†	2721.2	2572.4	475.87 ug/L	475.87 ppb	21:47:58
2	Ti 334.940†	310028.0	298740.9	495.39 ug/L	495.39 ppb	21:47:37
2	Tl 190.801†	1534.5	1492.0	484.26 ug/L	484.26 ppb	21:47:58
2	U 409.014†	11880.7	14959.7	478.98 ug/L	478.98 ppb	21:47:37
2	V 292.402†	64423.7	63517.2	499.31 ug/L	499.31 ppb	21:47:37
2	Zn 213.857†	52027.3	49002.4	484.90 ug/L	484.90 ppb	21:47:37
2	SiO2†	81220.0	77252.0	5169.2 ug/L	5169.2 ppb	21:48:35
3	Sc Radial	3958.0	3958.0	99.6 %		21:47:01
3	Y RADIAL	4212.5	4212.5	102.0 %		21:46:41
3	Al 396.153Radial†	4758.8	4922.0	5068.3 ug/L	5068.3 ppb	21:46:41
3	Ca 317.933Radial†	2655.4	2643.1	5132.4 ug/L	5132.4 ppb	21:47:01
3	Fe 238.204 Radial†	463.1	454.1	4996.2 ug/L	4996.2 ppb	21:47:01
3	K 766.490 Radial†	25860.9	22769.1	4926.9 ug/L	4926.9 ppb	21:46:41
3	Mg 279.077 IEC†	132.5	131.7	5149.1 ug/L	5149.1 ppb	21:47:01
3	Na 589.592 Radial†	28037.6	28267.2	9914.6 ug/L	9914.6 ppb	21:46:41
3	Sr 421.552†	60584.6	60745.1	504.95 ug/L	504.95 ppb	21:46:41
3	Sc 361.383	819562.7	819562.7	102.99 %		21:48:05
3	Y 371.029	660415.3	660415.3	102.71 %		21:48:05
3	Ag 328.068†	97795.6	94768.8	489.22 ug/L	489.22 ppb	21:48:05
3	As 188.979†	1201.4	1194.1	509.92 ug/L	509.92 ppb	21:48:25
3	B 249.677†	20902.8	20237.5	480.62 ug/L	480.62 ppb	21:48:05
3	Ba 233.527†	60085.0	58332.9	490.91 ug/L	490.91 ppb	21:48:05
3	Be 313.107†	1365712.7	1330274.3	499.22 ug/L	499.22 ppb	21:48:05
3	Cd 226.502†	40502.8	39534.8	487.60 ug/L	487.60 ppb	21:48:25
3	Co 228.616†	23822.5	23208.9	489.28 ug/L	489.28 ppb	21:48:25
3	Cr 267.716†	41243.1	39347.7	487.06 ug/L	487.06 ppb	21:48:05
3	Cu 324.752†	168987.3	155758.9	484.63 ug/L	484.63 ppb	21:48:05
3	Mn 257.610†	434825.6	421641.5	490.27 ug/L	490.27 ppb	21:48:05
3	Mo 202.031†	6671.7	6456.8	500.93 ug/L	500.93 ppb	21:48:25
3	Ni 231.604†	19160.0	18511.8	494.50 ug/L	494.50 ppb	21:48:25
3	P 214.914†	4962.8	4575.3	2411.1 ug/L	2411.1 ppb	21:48:25
3	Pb 220.353†	3901.6	3804.2	493.47 ug/L	493.47 ppb	21:48:25
3	S 181.975 Axial†	854.2	767.7	995.45 ug/L	995.45 ppb	21:48:25
3	Sb 206.836†	1466.3	1379.7	503.22 ug/L	503.22 ppb	21:48:25
3	Se 196.026†	886.7	887.5	526.01 ug/L	526.01 ppb	21:48:25
3	Si 251.611†	80750.3	77738.4	2442.4 ug/L	2442.4 ppb	21:48:05
3	Sn 189.927†	2763.7	2647.7	489.81 ug/L	489.81 ppb	21:48:25
3	Ti 334.940†	305559.2	298284.4	494.64 ug/L	494.64 ppb	21:48:05
3	Tl 190.801†	1553.3	1529.5	496.30 ug/L	496.30 ppb	21:48:25
3	U 409.014†	11235.2	14481.7	463.63 ug/L	463.63 ppb	21:48:05
3	V 292.402†	63810.8	63728.8	501.07 ug/L	501.07 ppb	21:48:05
3	Zn 213.857†	51521.9	49163.2	486.44 ug/L	486.44 ppb	21:48:05
3	SiO2†	82542.8	79553.4	5323.3 ug/L	5323.3 ppb	21:48:41

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	825176.9	103.70 %	0.675			0.65%
Sc Radial	3946.0	99.2 %	0.27			0.27%
Y 371.029	664736.4	103.38 %	0.635			0.61%
Y RADIAL	4212.2	102.0 %	0.41			0.41%
Ag 328.068†	94766.6	489.21 ug/L	0.280	489.21 ppb	0.280	0.06%
QC value within limits for Ag 328.068 Recovery = 97.84%						
Al 396.153Radial†	4952.4	5099.9 ug/L	27.38	5099.9 ppb	27.38	0.54%
QC value within limits for Al 396.153Radial Recovery = 102.00%						
As 188.979†	1173.7	501.30 ug/L	9.278	501.30 ppb	9.278	1.85%
QC value within limits for As 188.979 Recovery = 100.26%						
B 249.677†	20163.5	478.86 ug/L	1.584	478.86 ppb	1.584	0.33%
QC value within limits for B 249.677 Recovery = 95.77%						
Ba 233.527†	58390.5	491.40 ug/L	1.266	491.40 ppb	1.266	0.26%
QC value within limits for Ba 233.527 Recovery = 98.28%						
Be 313.107†	1329105.6	498.78 ug/L	0.812	498.78 ppb	0.812	0.16%
QC value within limits for Be 313.107 Recovery = 99.76%						
Ca 317.933Radial†	2645.2	5136.5 ug/L	3.61	5136.5 ppb	3.61	0.07%

QC value within limits for Ca 317.933 Radial Recovery = 102.73%

Cd	226.502†	39062.0	481.76 ug/L	5.587	481.76 ppb	5.587	1.16%
QC value within limits for Cd 226.502 Recovery = 96.35%							
Co	228.616†	22932.2	483.43 ug/L	5.540	483.43 ppb	5.540	1.15%
QC value within limits for Co 228.616 Recovery = 96.69%							
Cr	267.716†	39346.0	487.04 ug/L	1.324	487.04 ppb	1.324	0.27%
QC value within limits for Cr 267.716 Recovery = 97.41%							
Cu	324.752†	156070.1	485.60 ug/L	1.683	485.60 ppb	1.683	0.35%
QC value within limits for Cu 324.752 Recovery = 97.12%							
Fe	238.204 Radial†	458.2	5041.3 ug/L	39.02	5041.3 ppb	39.02	0.77%
QC value within limits for Fe 238.204 Radial Recovery = 100.83%							
K	766.490 Radial†	22955.3	4967.2 ug/L	35.58	4967.2 ppb	35.58	0.72%
QC value within limits for K 766.490 Radial Recovery = 99.34%							
Mg	279.077 IEC†	131.6	5144.9 ug/L	10.62	5144.9 ppb	10.62	0.21%
QC value within limits for Mg 279.077 IEC Recovery = 102.90%							
Mn	257.610†	421510.5	490.12 ug/L	0.750	490.12 ppb	0.750	0.15%
QC value within limits for Mn 257.610 Recovery = 98.02%							
Mo	202.031†	6390.5	495.80 ug/L	4.829	495.80 ppb	4.829	0.97%
QC value within limits for Mo 202.031 Recovery = 99.16%							
Na	589.592 Radial†	28481.6	9989.8 ug/L	95.39	9989.8 ppb	95.39	0.95%
QC value within limits for Na 589.592 Radial Recovery = 99.90%							
Ni	231.604†	18291.6	488.62 ug/L	5.644	488.62 ppb	5.644	1.16%
QC value within limits for Ni 231.604 Recovery = 97.72%							
P	214.914†	4508.0	2373.9 ug/L	34.90	2373.9 ppb	34.90	1.47%
QC value within limits for P 214.914 Recovery = 94.96%							
Pb	220.353†	3756.0	487.23 ug/L	5.903	487.23 ppb	5.903	1.21%
QC value within limits for Pb 220.353 Recovery = 97.45%							
S	181.975 Axial†	762.2	988.27 ug/L	6.220	988.27 ppb	6.220	0.63%
QC value within limits for S 181.975 Axial Recovery = 98.83%							
Sb	206.836†	1362.4	496.89 ug/L	6.021	496.89 ppb	6.021	1.21%
QC value within limits for Sb 206.836 Recovery = 99.38%							
Se	196.026†	878.4	520.90 ug/L	4.514	520.90 ppb	4.514	0.87%
QC value within limits for Se 196.026 Recovery = 104.18%							
Si	251.611†	77790.2	2444.1 ug/L	1.52	2444.1 ppb	1.52	0.06%
QC value within limits for Si 251.611 Recovery = 97.76%							
Sn	189.927†	2605.1	481.93 ug/L	7.149	481.93 ppb	7.149	1.48%
QC value within limits for Sn 189.927 Recovery = 96.39%							
Sr	421.552†	61086.9	507.79 ug/L	3.531	507.79 ppb	3.531	0.70%
QC value within limits for Sr 421.552 Recovery = 101.56%							
Ti	334.940†	298513.1	495.01 ug/L	0.376	495.01 ppb	0.376	0.08%
QC value within limits for Ti 334.940 Recovery = 99.00%							
Tl	190.801†	1510.0	490.02 ug/L	6.037	490.02 ppb	6.037	1.23%
QC value within limits for Tl 190.801 Recovery = 98.00%							
U	409.014†	14700.3	470.65 ug/L	7.761	470.65 ppb	7.761	1.65%
QC value within limits for U 409.014 Recovery = 94.13%							
V	292.402†	63669.5	500.54 ug/L	1.070	500.54 ppb	1.070	0.21%
QC value within limits for V 292.402 Recovery = 100.11%							
Zn	213.857†	49121.9	486.06 ug/L	1.029	486.06 ppb	1.029	0.21%
QC value within limits for Zn 213.857 Recovery = 97.21%							
SiO2†		78347.7	5242.6 ug/L	77.33	5242.6 ppb	77.33	1.48%
QC value within limits for SiO2 Recovery = 98.04%							

All analyte(s) passed QC.

Sequence No.: 53

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/17/2010 21:50:50

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	3933.7	3933.7	98.9 %		21:53:02
1	Y RADIAL	4178.0	4178.0	101.1 %		21:52:42
1	Al 396.153Radial†	-145.7	-5.3	-5.6501 ug/L	-5.6501 ppb	21:52:42
1	Ca 317.933Radial†	29.6	5.6	10.948 ug/L	10.948 ppb	21:53:02
1	Fe 238.204 Radial†	8.4	-2.6	-28.102 ug/L	-28.102 ppb	21:53:02
1	K 766.490 Radial†	3266.0	92.9	20.122 ug/L	20.122 ppb	21:52:42
1	Mg 279.077 IEC†	2.6	1.3	51.502 ug/L	51.502 ppb	21:53:02
1	Na 589.592 Radial†	-31.8	71.5	25.089 ug/L	25.089 ppb	21:52:42
1	Sr 421.552†	159.4	49.4	0.4110 ug/L	0.4110 ppb	21:52:42
1	Sc 361.383	804102.1	804102.1	101.05 %		21:53:59
1	Y 371.029	652346.8	652346.8	101.45 %		21:53:59
1	Ag 328.068†	203.9	16.1	0.0772 ug/L	0.0772 ppb	21:53:59
1	As 188.979†	-29.5	-1.5	-0.6459 ug/L	-0.6459 ppb	21:54:19
1	B 249.677†	-300.5	-355.4	-8.4750 ug/L	-8.4750 ppb	21:54:19
1	Ba 233.527†	50.8	43.8	0.3697 ug/L	0.3697 ppb	21:54:19
1	Be 313.107†	-3496.3	778.4	0.2919 ug/L	0.2919 ppb	21:53:59
1	Cd 226.502†	-200.6	10.1	0.1281 ug/L	0.1281 ppb	21:54:19
1	Co 228.616†	-64.4	14.7	0.3206 ug/L	0.3206 ppb	21:54:19
1	Cr 267.716†	115.5	-582.9	-7.2061 ug/L	-7.2061 ppb	21:54:19
1	Cu 324.752†	8427.4	20.9	0.0622 ug/L	0.0622 ppb	21:53:59
1	Mn 257.610†	638.0	80.0	0.0881 ug/L	0.0881 ppb	21:54:19
1	Mo 202.031†	59.6	37.9	2.9359 ug/L	2.9359 ppb	21:54:19
1	Ni 231.604†	110.8	18.0	0.4818 ug/L	0.4818 ppb	21:54:19
1	P 214.914†	227.3	-18.4	-10.082 ug/L	-10.082 ppb	21:54:19
1	Pb 220.353†	-53.0	-36.5	-4.7075 ug/L	-4.7075 ppb	21:54:19
1	S 181.975 Axial†	65.7	3.4	4.3608 ug/L	4.3608 ppb	21:54:19
1	Sb 206.836†	37.0	-7.4	-2.5527 ug/L	-2.5527 ppb	21:54:19
1	Se 196.026†	-15.6	11.0	6.2468 ug/L	6.2468 ppb	21:54:19
1	Si 251.611†	665.9	-6.9	-0.2543 ug/L	-0.2543 ppb	21:54:19
1	Sn 189.927†	28.2	-7.8	-1.4410 ug/L	-1.4410 ppb	21:54:19
1	Ti 334.940†	-1499.4	118.5	0.1954 ug/L	0.1954 ppb	21:53:59
1	Tl 190.801†	-29.3	-7.7	-2.4797 ug/L	-2.4797 ppb	21:54:19
1	U 409.014†	-3530.8	78.7	2.5478 ug/L	2.5478 ppb	21:53:59
1	V 292.402†	-1621.9	166.8	1.3483 ug/L	1.3483 ppb	21:53:59
1	Zn 213.857†	905.9	34.6	0.3471 ug/L	0.3471 ppb	21:54:19
1	SiO2†	646.5	48.5	3.1718 ug/L	3.1718 ppb	21:55:15
2	Sc Radial	3945.6	3945.6	99.2 %		21:53:27
2	Y RADIAL	4170.6	4170.6	101.0 %		21:53:07
2	Al 396.153Radial†	-140.7	0.1	-0.0493 ug/L	-0.0493 ppb	21:53:07
2	Ca 317.933Radial†	27.7	3.7	7.1319 ug/L	7.1319 ppb	21:53:27
2	Fe 238.204 Radial†	10.4	-0.6	-6.0312 ug/L	-6.0312 ppb	21:53:27
2	K 766.490 Radial†	3099.8	-84.5	-18.326 ug/L	-18.326 ppb	21:53:07
2	Mg 279.077 IEC†	3.5	2.2	84.780 ug/L	84.780 ppb	21:53:27
2	Na 589.592 Radial†	-67.4	35.8	12.561 ug/L	12.561 ppb	21:53:07
2	Sr 421.552†	158.4	48.0	0.3989 ug/L	0.3989 ppb	21:53:07
2	Sc 361.383	811113.8	811113.8	101.93 %		21:54:24
2	Y 371.029	658816.3	658816.3	102.46 %		21:54:24
2	Ag 328.068†	303.9	112.5	0.5697 ug/L	0.5697 ppb	21:54:24
2	As 188.979†	-30.0	-1.8	-0.7523 ug/L	-0.7523 ppb	21:54:44
2	B 249.677†	-321.8	-373.7	-8.9159 ug/L	-8.9159 ppb	21:54:44
2	Ba 233.527†	45.4	38.1	0.3214 ug/L	0.3214 ppb	21:54:44
2	Be 313.107†	-3878.2	433.6	0.1630 ug/L	0.1630 ppb	21:54:24
2	Cd 226.502†	-191.2	21.0	0.2629 ug/L	0.2629 ppb	21:54:44
2	Co 228.616†	-62.6	17.0	0.3680 ug/L	0.3680 ppb	21:54:44
2	Cr 267.716†	114.9	-584.5	-7.2290 ug/L	-7.2290 ppb	21:54:44
2	Cu 324.752†	8386.1	-91.7	-0.2918 ug/L	-0.2918 ppb	21:54:24
2	Mn 257.610†	625.6	62.4	0.0684 ug/L	0.0684 ppb	21:54:44
2	Mo 202.031†	57.4	35.2	2.7260 ug/L	2.7260 ppb	21:54:44
2	Ni 231.604†	120.0	26.2	0.6994 ug/L	0.6994 ppb	21:54:44

2	P 214.914†	231.4	-16.3	-8.8957 ug/L	-8.8957 ppb	21:54:44
2	Pb 220.353†	-56.5	-39.4	-5.0891 ug/L	-5.0891 ppb	21:54:44
2	S 181.975 Axial†	71.0	8.0	10.401 ug/L	10.401 ppb	21:54:44
2	Sb 206.836†	39.9	-4.9	-1.7110 ug/L	-1.7110 ppb	21:54:44
2	Se 196.026†	-21.2	5.7	3.2381 ug/L	3.2381 ppb	21:54:44
2	Si 251.611†	641.6	-36.5	-1.1834 ug/L	-1.1834 ppb	21:54:44
2	Sn 189.927†	16.2	-19.8	-3.6653 ug/L	-3.6653 ppb	21:54:44
2	Ti 334.940†	-1470.3	159.9	0.2570 ug/L	0.2570 ppb	21:54:24
2	Tl 190.801†	-25.7	-3.9	-1.2441 ug/L	-1.2441 ppb	21:54:44
2	U 409.014†	-3290.4	344.8	11.096 ug/L	11.096 ppb	21:54:24
2	V 292.402†	-1694.4	109.6	0.9150 ug/L	0.9150 ppb	21:54:24
2	Zn 213.857†	924.0	44.6	0.4423 ug/L	0.4423 ppb	21:54:44
2	SiO2†	638.8	35.4	2.3018 ug/L	2.3018 ppb	21:55:20
3	Sc Radial	3943.8	3943.8	99.2 %		21:53:52
3	Y RADIAL	4236.7	4236.7	102.6 %		21:53:32
3	Al 396.153Radial†	-147.6	-6.9	-7.2180 ug/L	-7.2180 ppb	21:53:32
3	Ca 317.933Radial†	32.9	8.9	17.355 ug/L	17.355 ppb	21:53:52
3	Fe 238.204 Radial†	9.9	-1.1	-11.807 ug/L	-11.807 ppb	21:53:52
3	K 766.490 Radial†	3324.5	143.4	31.059 ug/L	31.059 ppb	21:53:32
3	Mg 279.077 IEC†	3.8	2.4	95.338 ug/L	95.338 ppb	21:53:52
3	Na 589.592 Radial†	-34.3	69.1	24.240 ug/L	24.240 ppb	21:53:32
3	Sr 421.552†	211.5	101.6	0.8442 ug/L	0.8442 ppb	21:53:32
3	Sc 361.383	812715.6	812715.6	102.13 %		21:54:49
3	Y 371.029	660955.6	660955.6	102.79 %		21:54:49
3	Ag 328.068†	376.4	182.9	0.9354 ug/L	0.9354 ppb	21:54:49
3	As 188.979†	-31.6	-3.3	-1.3934 ug/L	-1.3934 ppb	21:55:09
3	B 249.677†	-313.7	-365.2	-8.7112 ug/L	-8.7112 ppb	21:55:09
3	Ba 233.527†	52.8	45.3	0.3810 ug/L	0.3810 ppb	21:55:09
3	Be 313.107†	-3526.3	785.7	0.2950 ug/L	0.2950 ppb	21:54:49
3	Cd 226.502†	-201.5	11.3	0.1414 ug/L	0.1414 ppb	21:55:09
3	Co 228.616†	-59.3	20.4	0.4366 ug/L	0.4366 ppb	21:55:09
3	Cr 267.716†	128.5	-571.3	-7.0635 ug/L	-7.0635 ppb	21:55:09
3	Cu 324.752†	8494.2	-2.1	-0.0081 ug/L	-0.0081 ppb	21:54:49
3	Mn 257.610†	614.2	49.9	0.0530 ug/L	0.0530 ppb	21:55:09
3	Mo 202.031†	45.0	23.0	1.7817 ug/L	1.7817 ppb	21:55:09
3	Ni 231.604†	106.4	12.6	0.3367 ug/L	0.3367 ppb	21:55:09
3	P 214.914†	244.6	-3.9	-2.1379 ug/L	-2.1379 ppb	21:55:09
3	Pb 220.353†	-63.4	-46.1	-5.9580 ug/L	-5.9580 ppb	21:55:09
3	S 181.975 Axial†	72.1	8.9	11.608 ug/L	11.608 ppb	21:55:09
3	Sb 206.836†	40.3	-4.5	-1.5775 ug/L	-1.5775 ppb	21:55:09
3	Se 196.026†	-22.6	4.3	2.4499 ug/L	2.4499 ppb	21:55:09
3	Si 251.611†	621.2	-57.7	-1.8383 ug/L	-1.8383 ppb	21:55:09
3	Sn 189.927†	24.0	-12.2	-2.2521 ug/L	-2.2521 ppb	21:55:09
3	Ti 334.940†	-1419.6	212.3	0.3485 ug/L	0.3485 ppb	21:54:49
3	Tl 190.801†	-31.3	-9.3	-3.0099 ug/L	-3.0099 ppb	21:55:09
3	U 409.014†	-3593.5	54.4	1.7640 ug/L	1.7640 ppb	21:54:49
3	V 292.402†	-1735.4	72.7	0.5987 ug/L	0.5987 ppb	21:54:49
3	Zn 213.857†	920.6	39.5	0.3938 ug/L	0.3938 ppb	21:55:09
3	SiO2†	676.6	71.2	4.7313 ug/L	4.7313 ppb	21:55:25

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	809310.5	101.70 %	0.576			0.57%
Sc Radial	3941.0	99.1 %	0.16			0.16%
Y 371.029	657372.9	102.24 %	0.697			0.68%
Y RADIAL	4195.1	101.6 %	0.88			0.86%
Ag 328.068†	103.9	0.5275 ug/L	0.43068	0.5275 ppb	0.43068	81.65%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-4.0	-4.3058 ug/L	3.76866	-4.3058 ppb	3.76866	87.52%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.2	-0.9305 ug/L	0.40437	-0.9305 ppb	0.40437	43.46%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-364.7	-8.7007 ug/L	0.22062	-8.7007 ppb	0.22062	2.54%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	42.4	0.3574 ug/L	0.03162	0.3574 ppb	0.03162	8.85%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	665.9	0.2500 ug/L	0.07535	0.2500 ppb	0.07535	30.14%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	6.1	11.811 ug/L	5.1658	11.811 ppb	5.1658	43.74%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	14.2	0.1775 ug/L	0.07426	0.1775 ppb	0.07426	41.84%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	17.4	0.3751 ug/L	0.05830	0.3751 ppb	0.05830	15.54%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-579.6	-7.1662 ug/L	0.08967	-7.1662 ppb	0.08967	1.25%		
QC value less than the lower limit for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-24.3	-0.0792 ug/L	0.18740	-0.0792 ppb	0.18740	236.60%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-1.4	-15.313 ug/L	11.4457	-15.313 ppb	11.4457	74.74%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	50.6	10.951 ug/L	25.9379	10.951 ppb	25.9379	236.84%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	2.0	77.206 ug/L	22.8782	77.206 ppb	22.8782	29.63%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	64.1	0.0698 ug/L	0.01759	0.0698 ppb	0.01759	25.19%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	32.0	2.4812 ug/L	0.61482	2.4812 ppb	0.61482	24.78%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	58.8	20.630 ug/L	7.0007	20.630 ppb	7.0007	33.93%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	18.9	0.5060 ug/L	0.18254	0.5060 ppb	0.18254	36.08%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-12.9	-7.0386 ug/L	4.28543	-7.0386 ppb	4.28543	60.88%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	-40.7	-5.2515 ug/L	0.64090	-5.2515 ppb	0.64090	12.20%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	6.8	8.7900 ug/L	3.88300	8.7900 ppb	3.88300	44.18%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	-5.6	-1.9470 ug/L	0.52871	-1.9470 ppb	0.52871	27.15%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	7.0	3.9783 ug/L	2.00376	3.9783 ppb	2.00376	50.37%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	-33.7	-1.0920 ug/L	0.79592	-1.0920 ppb	0.79592	72.89%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	-13.3	-2.4528 ug/L	1.12561	-2.4528 ppb	1.12561	45.89%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	66.3	0.5514 ug/L	0.25365	0.5514 ppb	0.25365	46.00%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	163.6	0.2669 ug/L	0.07706	0.2669 ppb	0.07706	28.87%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	-7.0	-2.2446 ug/L	0.90605	-2.2446 ppb	0.90605	40.37%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	159.3	5.1359 ug/L	5.17639	5.1359 ppb	5.17639	100.79%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	116.4	0.9540 ug/L	0.37635	0.9540 ppb	0.37635	39.45%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	39.6	0.3944 ug/L	0.04764	0.3944 ppb	0.04764	12.08%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		51.7	3.4016 ug/L	1.23095	3.4016 ppb	1.23095	36.19%		
QC value within limits for SiO2 Recovery = Not calculated									
QC Failed. Continue with analysis.									

Sequence No.: 59

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/17/2010 22:34:42

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	3897.6	3897.6	98.0 %		22:36:55
1	Y RADIAL	4125.5	4125.5	99.87 %		22:36:35
1	Al 396.153Radial†	4854.7	5094.0	5245.6 ug/L	5245.6 ppb	22:36:35
1	Ca 317.933Radial†	2720.7	2751.1	5342.2 ug/L	5342.2 ppb	22:36:55
1	Fe 238.204 Radial†	493.9	492.8	5421.6 ug/L	5421.6 ppb	22:36:55
1	K 766.490 Radial†	26696.7	24024.4	5198.5 ug/L	5198.5 ppb	22:36:35
1	Mg 279.077 IEC†	143.6	145.1	5673.3 ug/L	5673.3 ppb	22:36:55
1	Na 589.592 Radial†	29822.1	30524.2	10706 ug/L	10706 ppb	22:36:35
1	Sr 421.552†	62900.0	64050.4	532.42 ug/L	532.42 ppb	22:36:35
1	Sc 361.383	815573.2	815573.2	102.49 %		22:37:54
1	Y 371.029	651846.9	651846.9	101.38 %		22:37:54
1	Ag 328.068†	101069.5	98427.7	508.17 ug/L	508.17 ppb	22:37:54
1	As 188.979†	1236.6	1234.2	527.18 ug/L	527.18 ppb	22:38:14
1	B 249.677†	21880.4	21290.6	505.62 ug/L	505.62 ppb	22:37:54
1	Ba 233.527†	62553.8	61027.1	513.58 ug/L	513.58 ppb	22:37:54
1	Be 313.107†	1422624.9	1392289.8	522.49 ug/L	522.49 ppb	22:37:54
1	Cd 226.502†	41896.1	41086.5	506.72 ug/L	506.72 ppb	22:38:14
1	Co 228.616†	24714.4	24192.2	509.98 ug/L	509.98 ppb	22:38:14
1	Cr 267.716†	42633.2	40899.9	506.28 ug/L	506.28 ppb	22:37:54
1	Cu 324.752†	175143.6	162568.2	505.83 ug/L	505.83 ppb	22:37:54
1	Mn 257.610†	453979.1	442394.8	514.41 ug/L	514.41 ppb	22:37:54
1	Mo 202.031†	6810.9	6624.3	513.95 ug/L	513.95 ppb	22:38:14
1	Ni 231.604†	19752.1	19180.5	512.36 ug/L	512.36 ppb	22:38:14
1	P 214.914†	5134.7	4766.6	2511.4 ug/L	2511.4 ppb	22:38:14
1	Pb 220.353†	4052.6	3970.1	514.94 ug/L	514.94 ppb	22:38:14
1	S 181.975 Axial†	900.1	816.5	1058.8 ug/L	1058.8 ppb	22:38:14
1	Sb 206.836†	1517.0	1436.1	523.55 ug/L	523.55 ppb	22:38:14
1	Se 196.026†	911.5	915.8	543.60 ug/L	543.60 ppb	22:38:14
1	Si 251.611†	84133.8	81423.2	2558.3 ug/L	2558.3 ppb	22:37:54
1	Sn 189.927†	2832.3	2727.8	504.60 ug/L	504.60 ppb	22:38:14
1	Ti 334.940†	318079.6	311951.8	517.28 ug/L	517.28 ppb	22:37:54
1	Tl 190.801†	1602.8	1585.2	514.42 ug/L	514.42 ppb	22:38:14
1	U 409.014†	11652.0	14941.7	478.32 ug/L	478.32 ppb	22:37:54
1	V 292.402†	65777.6	65950.9	518.44 ug/L	518.44 ppb	22:37:54
1	Zn 213.857†	53489.5	51327.7	507.86 ug/L	507.86 ppb	22:37:54
1	SiO2†	83743.3	81116.9	5427.9 ug/L	5427.9 ppb	22:39:14
2	Sc Radial	3915.6	3915.6	98.5 %		22:37:20
2	Y RADIAL	4145.6	4145.6	100.4 %		22:37:00
2	Al 396.153Radial†	4869.5	5086.3	5237.4 ug/L	5237.4 ppb	22:37:00
2	Ca 317.933Radial†	2722.5	2740.1	5320.8 ug/L	5320.8 ppb	22:37:20
2	Fe 238.204 Radial†	486.1	482.5	5308.6 ug/L	5308.6 ppb	22:37:20
2	K 766.490 Radial†	26719.7	23922.7	5176.5 ug/L	5176.5 ppb	22:37:00
2	Mg 279.077 IEC†	142.0	142.8	5582.2 ug/L	5582.2 ppb	22:37:20
2	Na 589.592 Radial†	29704.1	30264.7	10615 ug/L	10615 ppb	22:37:00
2	Sr 421.552†	62612.6	63464.0	527.55 ug/L	527.55 ppb	22:37:00
2	Sc 361.383	811858.4	811858.4	102.02 %		22:38:21
2	Y 371.029	648069.5	648069.5	100.79 %		22:38:21
2	Ag 328.068†	100778.5	98593.6	508.99 ug/L	508.99 ppb	22:38:21
2	As 188.979†	1231.8	1235.1	527.49 ug/L	527.49 ppb	22:38:41
2	B 249.677†	21830.3	21339.2	506.80 ug/L	506.80 ppb	22:38:21
2	Ba 233.527†	62726.0	61475.2	517.34 ug/L	517.34 ppb	22:38:21
2	Be 313.107†	1415650.7	1391805.3	522.31 ug/L	522.31 ppb	22:38:21
2	Cd 226.502†	41676.2	41058.1	506.38 ug/L	506.38 ppb	22:38:41
2	Co 228.616†	24606.9	24197.2	510.10 ug/L	510.10 ppb	22:38:41
2	Cr 267.716†	42543.8	41002.6	507.55 ug/L	507.55 ppb	22:38:21
2	Cu 324.752†	174147.5	162373.8	505.22 ug/L	505.22 ppb	22:38:21
2	Mn 257.610†	453716.1	444163.8	516.45 ug/L	516.45 ppb	22:38:21
2	Mo 202.031†	6813.4	6657.1	516.48 ug/L	516.48 ppb	22:38:41
2	Ni 231.604†	19679.8	19197.8	512.83 ug/L	512.83 ppb	22:38:41

2	P 214.914†	5121.2	4776.3	2516.9 ug/L	2516.9 ppb	22:38:41
2	Pb 220.353†	4044.8	3980.5	516.30 ug/L	516.30 ppb	22:38:41
2	S 181.975 Axial†	893.0	813.6	1055.0 ug/L	1055.0 ppb	22:38:41
2	Sb 206.836†	1528.8	1454.5	530.02 ug/L	530.02 ppb	22:38:41
2	Se 196.026†	906.3	914.8	542.67 ug/L	542.67 ppb	22:38:41
2	Si 251.611†	83958.6	81627.0	2564.7 ug/L	2564.7 ppb	22:38:21
2	Sn 189.927†	2800.6	2709.3	501.19 ug/L	501.19 ppb	22:38:41
2	Ti 334.940†	316766.0	312084.3	517.50 ug/L	517.50 ppb	22:38:21
2	Tl 190.801†	1593.1	1582.8	513.66 ug/L	513.66 ppb	22:38:41
2	U 409.014†	11677.3	15018.5	480.79 ug/L	480.79 ppb	22:38:21
2	V 292.402†	65586.7	66057.5	519.32 ug/L	519.32 ppb	22:38:21
2	Zn 213.857†	53521.7	51598.0	510.57 ug/L	510.57 ppb	22:38:21
2	SiO2†	82082.9	79863.3	5343.7 ug/L	5343.7 ppb	22:39:19
3	Sc Radial	3970.8	3970.8	99.9 %		22:37:45
3	Y RADIAL	4243.9	4243.9	102.7 %		22:37:25
3	Al 396.153Radial†	4818.0	4965.9	5112.9 ug/L	5112.9 ppb	22:37:25
3	Ca 317.933Radial†	2736.3	2715.4	5273.0 ug/L	5273.0 ppb	22:37:45
3	Fe 238.204 Radial†	487.4	477.0	5248.0 ug/L	5248.0 ppb	22:37:45
3	K 766.490 Radial†	26374.4	23199.6	5020.0 ug/L	5020.0 ppb	22:37:25
3	Mg 279.077 IEC†	134.9	133.7	5226.2 ug/L	5226.2 ppb	22:37:45
3	Na 589.592 Radial†	29296.4	29437.0	10325 ug/L	10325 ppb	22:37:25
3	Sr 421.552†	61745.6	61711.7	512.98 ug/L	512.98 ppb	22:37:25
3	Sc 361.383	809618.0	809618.0	101.74 %		22:38:49
3	Y 371.029	646686.0	646686.0	100.57 %		22:38:49
3	Ag 328.068†	100404.5	98499.4	508.48 ug/L	508.48 ppb	22:38:49
3	As 188.979†	1229.6	1236.2	527.97 ug/L	527.97 ppb	22:39:09
3	B 249.677†	21599.0	21171.0	502.79 ug/L	502.79 ppb	22:38:49
3	Ba 233.527†	62189.6	61118.2	514.34 ug/L	514.34 ppb	22:38:49
3	Be 313.107†	1407201.2	1387340.3	520.64 ug/L	520.64 ppb	22:38:49
3	Cd 226.502†	41666.9	41162.0	507.67 ug/L	507.67 ppb	22:39:09
3	Co 228.616†	24648.7	24305.0	512.37 ug/L	512.37 ppb	22:39:09
3	Cr 267.716†	42277.4	40856.2	505.73 ug/L	505.73 ppb	22:38:49
3	Cu 324.752†	173709.9	162416.1	505.35 ug/L	505.35 ppb	22:38:49
3	Mn 257.610†	450711.7	442441.5	514.46 ug/L	514.46 ppb	22:38:49
3	Mo 202.031†	6796.6	6659.1	516.63 ug/L	516.63 ppb	22:39:09
3	Ni 231.604†	19638.3	19210.4	513.16 ug/L	513.16 ppb	22:39:09
3	P 214.914†	5117.3	4786.4	2522.5 ug/L	2522.5 ppb	22:39:09
3	Pb 220.353†	4018.5	3965.6	514.36 ug/L	514.36 ppb	22:39:09
3	S 181.975 Axial†	891.1	814.1	1055.7 ug/L	1055.7 ppb	22:39:09
3	Sb 206.836†	1505.6	1435.8	523.49 ug/L	523.49 ppb	22:39:09
3	Se 196.026†	905.1	916.1	543.25 ug/L	543.25 ppb	22:39:09
3	Si 251.611†	83450.3	81355.2	2556.2 ug/L	2556.2 ppb	22:38:49
3	Sn 189.927†	2809.6	2725.8	504.23 ug/L	504.23 ppb	22:39:09
3	Ti 334.940†	315740.3	311935.3	517.27 ug/L	517.27 ppb	22:38:49
3	Tl 190.801†	1597.0	1591.0	516.27 ug/L	516.27 ppb	22:39:09
3	U 409.014†	11813.5	15184.0	486.12 ug/L	486.12 ppb	22:38:49
3	V 292.402†	65278.8	65932.7	518.37 ug/L	518.37 ppb	22:38:49
3	Zn 213.857†	53172.7	51400.2	508.60 ug/L	508.60 ppb	22:38:49
3	SiO2†	83461.6	81441.0	5449.5 ug/L	5449.5 ppb	22:39:24

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	812349.8	102.09 %	0.378			0.37%
Sc Radial	3928.0	98.8 %	0.96			0.97%
Y 371.029	648867.5	100.91 %	0.415			0.41%
Y RADIAL	4171.7	101.0 %	1.53			1.52%
Ag 328.068†	98506.9	508.55 ug/L	0.413	508.55 ppb	0.413	0.08%
QC value within limits for Ag 328.068 Recovery = 101.71%						
Al 396.153Radial†	5048.7	5198.6 ug/L	74.34	5198.6 ppb	74.34	1.43%
QC value within limits for Al 396.153Radial Recovery = 103.97%						
As 188.979†	1235.2	527.55 ug/L	0.397	527.55 ppb	0.397	0.08%
QC value within limits for As 188.979 Recovery = 105.51%						
B 249.677†	21267.0	505.07 ug/L	2.061	505.07 ppb	2.061	0.41%
QC value within limits for B 249.677 Recovery = 101.01%						
Ba 233.527†	61206.8	515.09 ug/L	1.988	515.09 ppb	1.988	0.39%
QC value within limits for Ba 233.527 Recovery = 103.02%						
Be 313.107†	1390478.4	521.81 ug/L	1.022	521.81 ppb	1.022	0.20%
QC value within limits for Be 313.107 Recovery = 104.36%						
Ca 317.933Radial†	2735.5	5312.0 ug/L	35.41	5312.0 ppb	35.41	0.67%

QC value within limits for Ca 317.933 Radial Recovery = 106.24%

Cd	226.502†	41102.2	506.92 ug/L	0.668	506.92 ppb	0.668	0.13%
QC value within limits for Cd 226.502 Recovery = 101.38%							
Co	228.616†	24231.5	510.82 ug/L	1.346	510.82 ppb	1.346	0.26%
QC value within limits for Co 228.616 Recovery = 102.16%							
Cr	267.716†	40919.6	506.52 ug/L	0.931	506.52 ppb	0.931	0.18%
QC value within limits for Cr 267.716 Recovery = 101.30%							
Cu	324.752†	162452.7	505.47 ug/L	0.324	505.47 ppb	0.324	0.06%
QC value within limits for Cu 324.752 Recovery = 101.09%							
Fe	238.204 Radial†	484.1	5326.1 ug/L	88.07	5326.1 ppb	88.07	1.65%
QC value within limits for Fe 238.204 Radial Recovery = 106.52%							
K	766.490 Radial†	23715.6	5131.6 ug/L	97.34	5131.6 ppb	97.34	1.90%
QC value within limits for K 766.490 Radial Recovery = 102.63%							
Mg	279.077 IEC†	140.6	5493.9 ug/L	236.25	5493.9 ppb	236.25	4.30%
QC value within limits for Mg 279.077 IEC Recovery = 109.88%							
Mn	257.610†	443000.0	515.11 ug/L	1.167	515.11 ppb	1.167	0.23%
QC value within limits for Mn 257.610 Recovery = 103.02%							
Mo	202.031†	6646.8	515.69 ug/L	1.507	515.69 ppb	1.507	0.29%
QC value within limits for Mo 202.031 Recovery = 103.14%							
Na	589.592 Radial†	30075.3	10549 ug/L	199.1	10549 ppb	199.1	1.89%
QC value within limits for Na 589.592 Radial Recovery = 105.49%							
Ni	231.604†	19196.2	512.78 ug/L	0.401	512.78 ppb	0.401	0.08%
QC value within limits for Ni 231.604 Recovery = 102.56%							
P	214.914†	4776.4	2517.0 ug/L	5.52	2517.0 ppb	5.52	0.22%
QC value within limits for P 214.914 Recovery = 100.68%							
Pb	220.353†	3972.1	515.20 ug/L	0.998	515.20 ppb	0.998	0.19%
QC value within limits for Pb 220.353 Recovery = 103.04%							
S	181.975 Axial†	814.8	1056.5 ug/L	2.02	1056.5 ppb	2.02	0.19%
QC value within limits for S 181.975 Axial Recovery = 105.65%							
Sb	206.836†	1442.2	525.69 ug/L	3.752	525.69 ppb	3.752	0.71%
QC value within limits for Sb 206.836 Recovery = 105.14%							
Se	196.026†	915.5	543.17 ug/L	0.473	543.17 ppb	0.473	0.09%
QC value within limits for Se 196.026 Recovery = 108.63%							
Si	251.611†	81468.5	2559.7 ug/L	4.45	2559.7 ppb	4.45	0.17%
QC value within limits for Si 251.611 Recovery = 102.39%							
Sn	189.927†	2721.0	503.34 ug/L	1.868	503.34 ppb	1.868	0.37%
QC value within limits for Sn 189.927 Recovery = 100.67%							
Sr	421.552†	63075.4	524.32 ug/L	10.115	524.32 ppb	10.115	1.93%
QC value within limits for Sr 421.552 Recovery = 104.86%							
Ti	334.940†	311990.5	517.35 ug/L	0.130	517.35 ppb	0.130	0.03%
QC value within limits for Ti 334.940 Recovery = 103.47%							
Tl	190.801†	1586.3	514.78 ug/L	1.346	514.78 ppb	1.346	0.26%
QC value within limits for Tl 190.801 Recovery = 102.96%							
U	409.014†	15048.1	481.75 ug/L	3.989	481.75 ppb	3.989	0.83%
QC value within limits for U 409.014 Recovery = 96.35%							
V	292.402†	65980.4	518.71 ug/L	0.531	518.71 ppb	0.531	0.10%
QC value within limits for V 292.402 Recovery = 103.74%							
Zn	213.857†	51442.0	509.01 ug/L	1.402	509.01 ppb	1.402	0.28%
QC value within limits for Zn 213.857 Recovery = 101.80%							
SiO2†		80807.1	5407.0 ug/L	55.91	5407.0 ppb	55.91	1.03%
QC value within limits for SiO2 Recovery = 101.11%							

All analyte(s) passed QC.

Sequence No.: 60

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/17/2010 22:41:34

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3810.2	3810.2	95.8 %		22:43:47
1	Y RADIAL	3876.3	3876.3	93.84 %		22:43:47
1	Al 396.153Radial†	-167.0	-32.3	-33.444 ug/L	-33.444 ppb	22:43:27
1	Ca 317.933Radial†	28.0	5.0	9.6942 ug/L	9.6942 ppb	22:43:47
1	Fe 238.204 Radial†	8.8	-1.9	-20.317 ug/L	-20.317 ppb	22:43:47
1	K 766.490 Radial†	3318.5	254.7	55.196 ug/L	55.196 ppb	22:43:27
1	Mg 279.077 IEC†	1.2	-0.1	-4.1623 ug/L	-4.1623 ppb	22:43:47
1	Na 589.592 Radial†	-160.9	-64.2	-22.520 ug/L	-22.520 ppb	22:43:27
1	Sr 421.552†	110.2	3.3	0.0273 ug/L	0.0273 ppb	22:43:27
1	Sc 361.383	798447.4	798447.4	100.34 %		22:44:44
1	Y 371.029	644569.4	644569.4	100.24 %		22:44:44
1	Ag 328.068†	200.8	14.5	0.0690 ug/L	0.0690 ppb	22:44:44
1	As 188.979†	-22.2	5.5	2.3283 ug/L	2.3283 ppb	22:45:04
1	B 249.677†	-401.6	-458.3	-10.932 ug/L	-10.932 ppb	22:45:04
1	Ba 233.527†	16.7	10.3	0.0865 ug/L	0.0865 ppb	22:45:04
1	Be 313.107†	-4060.0	192.1	0.0722 ug/L	0.0722 ppb	22:44:44
1	Cd 226.502†	-227.7	-18.3	-0.2235 ug/L	-0.2235 ppb	22:45:04
1	Co 228.616†	-59.3	19.3	0.4098 ug/L	0.4098 ppb	22:45:04
1	Cr 267.716†	129.3	-568.3	-7.0257 ug/L	-7.0257 ppb	22:44:44
1	Cu 324.752†	8349.3	2.2	0.0051 ug/L	0.0051 ppb	22:44:44
1	Mn 257.610†	567.8	14.4	0.0149 ug/L	0.0149 ppb	22:45:04
1	Mo 202.031†	18.4	-2.7	-0.2139 ug/L	-0.2139 ppb	22:45:04
1	Ni 231.604†	119.4	27.5	0.7338 ug/L	0.7338 ppb	22:45:04
1	P 214.914†	242.6	-1.5	-0.8474 ug/L	-0.8474 ppb	22:45:04
1	Pb 220.353†	-64.8	-48.6	-6.2913 ug/L	-6.2913 ppb	22:45:04
1	S 181.975 Axial†	75.4	13.4	17.435 ug/L	17.435 ppb	22:45:04
1	Sb 206.836†	43.5	-0.6	-0.2639 ug/L	-0.2639 ppb	22:45:04
1	Se 196.026†	-23.3	3.3	1.8295 ug/L	1.8295 ppb	22:45:04
1	Si 251.611†	738.6	70.1	2.2110 ug/L	2.2110 ppb	22:45:04
1	Sn 189.927†	20.7	-15.1	-2.7888 ug/L	-2.7888 ppb	22:45:04
1	Ti 334.940†	-1531.6	75.9	0.1295 ug/L	0.1295 ppb	22:44:44
1	Tl 190.801†	-43.5	-22.0	-7.1041 ug/L	-7.1041 ppb	22:45:04
1	U 409.014†	-3547.2	37.7	1.2283 ug/L	1.2283 ppb	22:44:44
1	V 292.402†	-1719.5	58.2	0.4558 ug/L	0.4558 ppb	22:44:44
1	Zn 213.857†	824.4	-40.2	-0.4036 ug/L	-0.4036 ppb	22:45:04
1	SiO2†	1064.3	469.5	31.500 ug/L	31.500 ppb	22:46:00
2	Sc Radial	3811.8	3811.8	95.9 %		22:44:12
2	Y RADIAL	3867.8	3867.8	93.63 %		22:44:12
2	Al 396.153Radial†	-136.1	-0.1	-0.1167 ug/L	-0.1167 ppb	22:43:52
2	Ca 317.933Radial†	31.0	8.0	15.619 ug/L	15.619 ppb	22:44:12
2	Fe 238.204 Radial†	8.5	-2.2	-23.650 ug/L	-23.650 ppb	22:44:12
2	K 766.490 Radial†	3307.1	241.4	52.292 ug/L	52.292 ppb	22:43:52
2	Mg 279.077 IEC†	1.7	0.4	15.627 ug/L	15.627 ppb	22:44:12
2	Na 589.592 Radial†	-123.2	-24.8	-8.6904 ug/L	-8.6904 ppb	22:43:52
2	Sr 421.552†	119.8	13.3	0.1106 ug/L	0.1106 ppb	22:43:52
2	Sc 361.383	799252.2	799252.2	100.44 %		22:45:09
2	Y 371.029	646400.3	646400.3	100.53 %		22:45:09
2	Ag 328.068†	225.7	39.1	0.1967 ug/L	0.1967 ppb	22:45:09
2	As 188.979†	-29.8	-2.0	-0.8550 ug/L	-0.8550 ppb	22:45:29
2	B 249.677†	-408.8	-465.0	-11.091 ug/L	-11.091 ppb	22:45:29
2	Ba 233.527†	11.4	4.9	0.0406 ug/L	0.0406 ppb	22:45:29
2	Be 313.107†	-4098.5	157.8	0.0593 ug/L	0.0593 ppb	22:45:09
2	Cd 226.502†	-200.3	9.2	0.1155 ug/L	0.1155 ppb	22:45:29
2	Co 228.616†	-70.7	8.1	0.1762 ug/L	0.1762 ppb	22:45:29
2	Cr 267.716†	43.7	-653.7	-8.0799 ug/L	-8.0799 ppb	22:45:09
2	Cu 324.752†	8398.8	43.0	0.1349 ug/L	0.1349 ppb	22:45:09
2	Mn 257.610†	564.7	10.8	0.0096 ug/L	0.0096 ppb	22:45:29
2	Mo 202.031†	32.1	10.8	0.8366 ug/L	0.8366 ppb	22:45:29
2	Ni 231.604†	89.2	-2.8	-0.0745 ug/L	-0.0745 ppb	22:45:29

2	P 214.914†	239.2	-5.1	-2.8349 ug/L	-2.8349 ppb	22:45:29
2	Pb 220.353†	-61.5	-45.2	-5.8403 ug/L	-5.8403 ppb	22:45:29
2	S 181.975 Axial†	65.5	3.6	4.6252 ug/L	4.6252 ppb	22:45:29
2	Sb 206.836†	51.5	7.3	2.5714 ug/L	2.5714 ppb	22:45:29
2	Se 196.026†	-13.8	12.7	7.2383 ug/L	7.2383 ppb	22:45:29
2	Si 251.611†	650.0	-18.8	-0.6037 ug/L	-0.6037 ppb	22:45:29
2	Sn 189.927†	27.9	-8.0	-1.4667 ug/L	-1.4667 ppb	22:45:29
2	Ti 334.940†	-1558.0	51.2	0.0904 ug/L	0.0904 ppb	22:45:09
2	Tl 190.801†	-30.9	-9.4	-3.0403 ug/L	-3.0403 ppb	22:45:29
2	U 409.014†	-3715.9	-126.8	-4.0526 ug/L	-4.0526 ppb	22:45:09
2	V 292.402†	-1774.8	4.9	0.0485 ug/L	0.0485 ppb	22:45:09
2	Zn 213.857†	840.3	-25.3	-0.2486 ug/L	-0.2486 ppb	22:45:29
2	SiO2†	668.5	74.3	4.9617 ug/L	4.9617 ppb	22:46:05
3	Sc Radial	3808.7	3808.7	95.8 %		22:44:37
3	Y RADIAL	3853.8	3853.8	93.29 %		22:44:37
3	Al 396.153Radial†	-144.8	-9.3	-9.6513 ug/L	-9.6513 ppb	22:44:17
3	Ca 317.933Radial†	29.1	6.1	11.827 ug/L	11.827 ppb	22:44:37
3	Fe 238.204 Radial†	9.9	-0.7	-7.1457 ug/L	-7.1457 ppb	22:44:37
3	K 766.490 Radial†	3282.6	218.5	47.352 ug/L	47.352 ppb	22:44:17
3	Mg 279.077 IEC†	1.6	0.3	11.555 ug/L	11.555 ppb	22:44:37
3	Na 589.592 Radial†	-146.2	-48.9	-17.144 ug/L	-17.144 ppb	22:44:17
3	Sr 421.552†	79.3	-28.8	-0.2399 ug/L	-0.2399 ppb	22:44:17
3	Sc 361.383	798877.6	798877.6	100.39 %		22:45:35
3	Y 371.029	645740.5	645740.5	100.43 %		22:45:35
3	Ag 328.068†	259.2	72.5	0.3671 ug/L	0.3671 ppb	22:45:35
3	As 188.979†	-34.1	-6.3	-2.6737 ug/L	-2.6737 ppb	22:45:55
3	B 249.677†	-394.0	-450.5	-10.747 ug/L	-10.747 ppb	22:45:55
3	Ba 233.527†	40.4	33.9	0.2833 ug/L	0.2833 ppb	22:45:55
3	Be 313.107†	-4178.4	76.4	0.0291 ug/L	0.0291 ppb	22:45:35
3	Cd 226.502†	-212.9	-3.4	-0.0413 ug/L	-0.0413 ppb	22:45:55
3	Co 228.616†	-75.0	3.7	0.0828 ug/L	0.0828 ppb	22:45:55
3	Cr 267.716†	113.3	-584.3	-7.2247 ug/L	-7.2247 ppb	22:45:35
3	Cu 324.752†	8386.2	34.5	0.1060 ug/L	0.1060 ppb	22:45:35
3	Mn 257.610†	581.1	27.4	0.0307 ug/L	0.0307 ppb	22:45:55
3	Mo 202.031†	30.4	9.1	0.7079 ug/L	0.7079 ppb	22:45:55
3	Ni 231.604†	97.8	5.9	0.1567 ug/L	0.1567 ppb	22:45:55
3	P 214.914†	240.2	-4.1	-2.2891 ug/L	-2.2891 ppb	22:45:55
3	Pb 220.353†	-68.5	-52.2	-6.7518 ug/L	-6.7518 ppb	22:45:55
3	S 181.975 Axial†	78.5	16.5	21.458 ug/L	21.458 ppb	22:45:55
3	Sb 206.836†	43.5	-0.7	-0.2783 ug/L	-0.2783 ppb	22:45:55
3	Se 196.026†	-18.4	8.1	4.6564 ug/L	4.6564 ppb	22:45:55
3	Si 251.611†	726.1	57.3	1.7961 ug/L	1.7961 ppb	22:45:55
3	Sn 189.927†	19.0	-16.8	-3.1000 ug/L	-3.1000 ppb	22:45:55
3	Ti 334.940†	-1475.1	133.0	0.2231 ug/L	0.2231 ppb	22:45:35
3	Tl 190.801†	-31.3	-9.8	-3.1648 ug/L	-3.1648 ppb	22:45:55
3	U 409.014†	-3531.2	55.5	1.8004 ug/L	1.8004 ppb	22:45:35
3	V 292.402†	-1816.9	-37.9	-0.2770 ug/L	-0.2770 ppb	22:45:35
3	Zn 213.857†	832.8	-32.3	-0.3226 ug/L	-0.3226 ppb	22:45:55
3	SiO2†	751.7	157.5	10.547 ug/L	10.547 ppb	22:46:10

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	798859.1	100.39 %	0.051			0.05%
Sc Radial	3810.3	95.8 %	0.04			0.04%
Y 371.029	645570.1	100.40 %	0.144			0.14%
Y RADIAL	3866.0	93.59 %	0.275			0.29%
Ag 328.068†	42.1	0.2109 ug/L	0.14957	0.2109 ppb	0.14957	70.91%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-13.9	-14.404 ug/L	17.1645	-14.404 ppb	17.1645	119.16%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.9	-0.4001 ug/L	2.53182	-0.4001 ppb	2.53182	632.74%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-457.9	-10.923 ug/L	0.1720	-10.923 ppb	0.1720	1.57%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	16.3	0.1368 ug/L	0.12893	0.1368 ppb	0.12893	94.25%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	142.1	0.0535 ug/L	0.02212	0.0535 ppb	0.02212	41.32%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	6.4	12.380 ug/L	3.0009	12.380 ppb	3.0009	24.24%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	-4.2	-0.0498 ug/L	0.16967	-0.0498 ppb	0.16967	340.79%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	10.4	0.2230 ug/L	0.16844	0.2230 ppb	0.16844	75.55%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-602.1	-7.4434 ug/L	0.56011	-7.4434 ppb	0.56011	7.52%
QC value less than the lower limit for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	26.6	0.0820 ug/L	0.06813	0.0820 ppb	0.06813	83.07%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-1.6	-17.037 ug/L	8.7270	-17.037 ppb	8.7270	51.22%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	238.2	51.613 ug/L	3.9661	51.613 ppb	3.9661	7.68%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.2	7.6735 ug/L	10.45039	7.6735 ppb	10.45039	136.19%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	17.6	0.0184 ug/L	0.01095	0.0184 ppb	0.01095	59.53%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	5.7	0.4435 ug/L	0.57295	0.4435 ppb	0.57295	129.18%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-46.0	-16.118 ug/L	6.9718	-16.118 ppb	6.9718	43.25%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	10.2	0.2720 ug/L	0.41627	0.2720 ppb	0.41627	153.04%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-3.6	-1.9905 ug/L	1.02683	-1.9905 ppb	1.02683	51.59%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-48.7	-6.2945 ug/L	0.45576	-6.2945 ppb	0.45576	7.24%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	11.2	14.506 ug/L	8.7901	14.506 ppb	8.7901	60.60%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	2.0	0.6764 ug/L	1.64114	0.6764 ppb	1.64114	242.61%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	8.1	4.5747 ug/L	2.70532	4.5747 ppb	2.70532	59.14%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	36.2	1.1344 ug/L	1.51954	1.1344 ppb	1.51954	133.95%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-13.3	-2.4519 ug/L	0.86723	-2.4519 ppb	0.86723	35.37%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-4.1	-0.0340 ug/L	0.18307	-0.0340 ppb	0.18307	538.44%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	86.7	0.1477 ug/L	0.06818	0.1477 ppb	0.06818	46.16%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	-13.8	-4.4364 ug/L	2.31116	-4.4364 ppb	2.31116	52.10%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-11.2	-0.3413 ug/L	3.22676	-0.3413 ppb	3.22676	945.39%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	8.4	0.0758 ug/L	0.36720	0.0758 ppb	0.36720	484.61%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-32.6	-0.3249 ug/L	0.07755	-0.3249 ppb	0.07755	23.87%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	233.8	15.669 ug/L	13.9909	15.669 ppb	13.9909	89.29%
QC value within limits for SiO2 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 61
 Sample ID: 1202036425|950319|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 82
 Date Collected: 2/17/2010 22:48:21
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202036425|950319|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3920.6	3920.6	98.6 %		22:50:34
1	Y RADIAL	4287.2	4287.2	103.8 %		22:50:14
1	Al 396.153Radial†	-154.9	-15.2	-15.852 ug/L	-15.852 ppb	22:50:14
1	Ca 317.933Radial†	24.1	0.2	0.3782 ug/L	0.3782 ppb	22:50:34
1	Fe 238.204 Radial†	11.0	0.2	1.7039 ug/L	1.7039 ppb	22:50:34
1	K 766.490 Radial†	3301.6	140.1	30.348 ug/L	30.348 ppb	22:50:14
1	Mg 279.077 IEC†	3.9	2.6	101.25 ug/L	101.25 ppb	22:50:34
1	Na 589.592 Radial†	-126.0	-24.1	-8.4366 ug/L	-8.4366 ppb	22:50:14
1	Sr 421.552†	122.1	12.2	0.1014 ug/L	0.1014 ppb	22:50:14
1	Sc 361.383	808254.2	808254.2	101.57 %		22:51:31
1	Y 371.029	652463.2	652463.2	101.47 %		22:51:31
1	Ag 328.068†	175.0	-13.3	-0.0674 ug/L	-0.0674 ppb	22:51:31
1	As 188.979†	-36.1	-7.9	-3.3473 ug/L	-3.3473 ppb	22:51:51
1	B 249.677†	-425.4	-476.9	-11.378 ug/L	-11.378 ppb	22:51:51
1	Ba 233.527†	31.2	24.3	0.2054 ug/L	0.2054 ppb	22:51:51
1	Be 313.107†	-4119.8	182.3	0.0692 ug/L	0.0692 ppb	22:51:31
1	Cd 226.502†	-202.2	9.6	0.1189 ug/L	0.1189 ppb	22:51:51
1	Co 228.616†	-67.8	11.7	0.2529 ug/L	0.2529 ppb	22:51:51
1	Cr 267.716†	85.1	-613.4	-7.5837 ug/L	-7.5837 ppb	22:51:51
1	Cu 324.752†	8359.6	-88.7	-0.2775 ug/L	-0.2775 ppb	22:51:31
1	Mn 257.610†	660.8	99.1	0.1112 ug/L	0.1112 ppb	22:51:51
1	Mo 202.031†	44.2	22.5	1.7405 ug/L	1.7405 ppb	22:51:51
1	Ni 231.604†	95.1	2.1	0.0557 ug/L	0.0557 ppb	22:51:51
1	P 214.914†	248.6	1.5	0.8115 ug/L	0.8115 ppb	22:51:51
1	Pb 220.353†	-52.8	-36.0	-4.6491 ug/L	-4.6491 ppb	22:51:51
1	S 181.975 Axial†	73.8	10.9	14.195 ug/L	14.195 ppb	22:51:51
1	Sb 206.836†	53.4	8.6	2.9878 ug/L	2.9878 ppb	22:51:51
1	Se 196.026†	-21.4	5.4	3.1099 ug/L	3.1099 ppb	22:51:51
1	Si 251.611†	1012.9	331.3	10.415 ug/L	10.415 ppb	22:51:51
1	Sn 189.927†	15.7	-20.2	-3.7413 ug/L	-3.7413 ppb	22:51:51
1	Ti 334.940†	-1381.9	241.8	0.3941 ug/L	0.3941 ppb	22:51:31
1	Tl 190.801†	-27.0	-5.3	-1.6996 ug/L	-1.6996 ppb	22:51:51
1	U 409.014†	-3528.0	99.5	3.2121 ug/L	3.2121 ppb	22:51:31
1	V 292.402†	-1704.4	93.9	0.7633 ug/L	0.7633 ppb	22:51:31
1	Zn 213.857†	902.0	26.2	0.2611 ug/L	0.2611 ppb	22:51:51
1	SiO2†	1023.4	416.3	27.879 ug/L	27.879 ppb	22:52:47
2	Sc Radial	3993.6	3993.6	100 %		22:50:59
2	Y RADIAL	4209.7	4209.7	101.9 %		22:50:39
2	Al 396.153Radial†	-129.3	13.2	13.573 ug/L	13.573 ppb	22:50:39
2	Ca 317.933Radial†	23.4	-1.0	-1.8573 ug/L	-1.8573 ppb	22:50:59
2	Fe 238.204 Radial†	12.3	1.2	13.571 ug/L	13.571 ppb	22:50:59
2	K 766.490 Radial†	3244.1	21.6	4.6953 ug/L	4.6953 ppb	22:50:39
2	Mg 279.077 IEC†	5.3	4.0	154.59 ug/L	154.59 ppb	22:50:59
2	Na 589.592 Radial†	-164.3	-59.9	-20.994 ug/L	-20.994 ppb	22:50:39
2	Sr 421.552†	70.3	-41.7	-0.3464 ug/L	-0.3464 ppb	22:50:39
2	Sc 361.383	807478.5	807478.5	101.47 %		22:51:56
2	Y 371.029	651697.9	651697.9	101.35 %		22:51:56
2	Ag 328.068†	165.2	-22.8	-0.1133 ug/L	-0.1133 ppb	22:51:56
2	As 188.979†	-37.5	-9.3	-3.9336 ug/L	-3.9336 ppb	22:52:16
2	B 249.677†	-453.2	-504.7	-12.043 ug/L	-12.043 ppb	22:52:16
2	Ba 233.527†	37.5	30.5	0.2581 ug/L	0.2581 ppb	22:52:16
2	Be 313.107†	-4122.7	175.6	0.0663 ug/L	0.0663 ppb	22:51:56
2	Cd 226.502†	-209.2	2.5	0.0296 ug/L	0.0296 ppb	22:52:16
2	Co 228.616†	-81.1	-1.5	-0.0236 ug/L	-0.0236 ppb	22:52:16
2	Cr 267.716†	74.3	-624.0	-7.7145 ug/L	-7.7145 ppb	22:52:16
2	Cu 324.752†	8316.0	-123.7	-0.3858 ug/L	-0.3858 ppb	22:51:56
2	Mn 257.610†	683.2	121.8	0.1366 ug/L	0.1366 ppb	22:52:16
2	Mo 202.031†	46.4	24.6	1.9094 ug/L	1.9094 ppb	22:52:16
2	Ni 231.604†	100.4	7.3	0.1959 ug/L	0.1959 ppb	22:52:16

2	P 214.914†	253.8	6.8	3.7776 ug/L	3.7776 ppb	22:52:16
2	Pb 220.353†	-90.5	-73.2	-9.4626 ug/L	-9.4626 ppb	22:52:16
2	S 181.975 Axial†	74.0	11.2	14.592 ug/L	14.592 ppb	22:52:16
2	Sb 206.836†	40.2	-4.4	-1.5542 ug/L	-1.5542 ppb	22:52:16
2	Se 196.026†	-27.1	-0.2	-0.0800 ug/L	-0.0800 ppb	22:52:16
2	Si 251.611†	978.7	298.6	9.3807 ug/L	9.3807 ppb	22:52:16
2	Sn 189.927†	21.4	-14.6	-2.7065 ug/L	-2.7065 ppb	22:52:16
2	Ti 334.940†	-1479.5	144.4	0.2280 ug/L	0.2280 ppb	22:51:56
2	Tl 190.801†	-34.7	-12.9	-4.1404 ug/L	-4.1404 ppb	22:52:16
2	U 409.014†	-3525.5	98.6	3.1839 ug/L	3.1839 ppb	22:51:56
2	V 292.402†	-1725.5	71.4	0.5908 ug/L	0.5908 ppb	22:51:56
2	Zn 213.857†	902.1	27.1	0.2683 ug/L	0.2683 ppb	22:52:16
2	SiO2†	1002.1	396.3	26.531 ug/L	26.531 ppb	22:52:52
3	Sc Radial	3982.6	3982.6	100 %		22:51:24
3	Y RADIAL	4225.3	4225.3	102.3 %		22:51:04
3	Al 396.153Radial†	-160.3	-18.1	-18.852 ug/L	-18.852 ppb	22:51:04
3	Ca 317.933Radial†	22.8	-1.5	-2.8186 ug/L	-2.8186 ppb	22:51:24
3	Fe 238.204 Radial†	10.1	-0.9	-10.115 ug/L	-10.115 ppb	22:51:24
3	K 766.490 Radial†	3215.6	2.1	0.4763 ug/L	0.4763 ppb	22:51:04
3	Mg 279.077 IEC†	3.4	2.1	81.486 ug/L	81.486 ppb	22:51:24
3	Na 589.592 Radial†	-237.7	-133.6	-46.845 ug/L	-46.845 ppb	22:51:04
3	Sr 421.552†	65.0	-46.8	-0.3887 ug/L	-0.3887 ppb	22:51:04
3	Sc 361.383	811320.9	811320.9	101.96 %		22:52:22
3	Y 371.029	655006.0	655006.0	101.87 %		22:52:22
3	Ag 328.068†	263.5	72.8	0.3727 ug/L	0.3727 ppb	22:52:22
3	As 188.979†	-30.0	-1.8	-0.7569 ug/L	-0.7569 ppb	22:52:42
3	B 249.677†	-452.6	-501.9	-11.974 ug/L	-11.974 ppb	22:52:42
3	Ba 233.527†	34.2	27.1	0.2286 ug/L	0.2286 ppb	22:52:42
3	Be 313.107†	-4156.3	161.8	0.0614 ug/L	0.0614 ppb	22:52:22
3	Cd 226.502†	-217.8	-5.0	-0.0606 ug/L	-0.0606 ppb	22:52:42
3	Co 228.616†	-65.8	13.9	0.2994 ug/L	0.2994 ppb	22:52:42
3	Cr 267.716†	94.8	-604.2	-7.4687 ug/L	-7.4687 ppb	22:52:42
3	Cu 324.752†	8404.9	-75.3	-0.2351 ug/L	-0.2351 ppb	22:52:22
3	Mn 257.610†	674.0	109.6	0.1230 ug/L	0.1230 ppb	22:52:42
3	Mo 202.031†	43.0	21.0	1.6305 ug/L	1.6305 ppb	22:52:42
3	Ni 231.604†	92.0	-1.3	-0.0354 ug/L	-0.0354 ppb	22:52:42
3	P 214.914†	245.0	-3.0	-1.6360 ug/L	-1.6360 ppb	22:52:42
3	Pb 220.353†	-50.5	-33.5	-4.3353 ug/L	-4.3353 ppb	22:52:42
3	S 181.975 Axial†	71.3	8.3	10.746 ug/L	10.746 ppb	22:52:42
3	Sb 206.836†	37.5	-7.2	-2.5442 ug/L	-2.5442 ppb	22:52:42
3	Se 196.026†	-16.8	10.0	5.7106 ug/L	5.7106 ppb	22:52:42
3	Si 251.611†	972.7	288.1	9.0550 ug/L	9.0550 ppb	22:52:42
3	Sn 189.927†	20.4	-15.7	-2.9074 ug/L	-2.9074 ppb	22:52:42
3	Ti 334.940†	-1402.9	226.4	0.3709 ug/L	0.3709 ppb	22:52:22
3	Tl 190.801†	-39.8	-17.7	-5.6900 ug/L	-5.6900 ppb	22:52:42
3	U 409.014†	-3627.3	15.2	0.5059 ug/L	0.5059 ppb	22:52:22
3	V 292.402†	-1717.6	87.2	0.7062 ug/L	0.7062 ppb	22:52:22
3	Zn 213.857†	896.3	17.3	0.1744 ug/L	0.1744 ppb	22:52:42
3	SiO2†	1215.2	600.6	40.250 ug/L	40.250 ppb	22:52:57

Mean Data: 1202036425|950319|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	809017.9	101.67 %		0.255			0.25%
Sc Radial	3965.6	99.7 %		0.99			0.99%
Y 371.029	653055.7	101.56 %		0.269			0.27%
Y RADIAL	4240.7	102.7 %		0.99			0.97%
Ag 328.068†	12.2	0.0640 ug/L		0.26833	0.0640 ppb	0.26833	419.03%
Al 396.153Radial†	-6.7	-7.0434 ug/L		17.91736	-7.0434 ppb	17.91736	254.39%
As 188.979†	-6.3	-2.6793 ug/L		1.69046	-2.6793 ppb	1.69046	63.09%
B 249.677†	-494.5	-11.798 ug/L		0.3653	-11.798 ppb	0.3653	3.10%
Ba 233.527†	27.3	0.2307 ug/L		0.02642	0.2307 ppb	0.02642	11.45%
Be 313.107†	173.2	0.0656 ug/L		0.00390	0.0656 ppb	0.00390	5.95%
Ca 317.933Radial†	-0.7	-1.4326 ug/L		1.64016	-1.4326 ppb	1.64016	114.49%
Cd 226.502†	2.3	0.0293 ug/L		0.08979	0.0293 ppb	0.08979	306.53%
Co 228.616†	8.0	0.1763 ug/L		0.17463	0.1763 ppb	0.17463	99.08%
Cr 267.716†	-613.9	-7.5890 ug/L		0.12297	-7.5890 ppb	0.12297	1.62%
Cu 324.752†	-95.9	-0.2995 ug/L		0.07774	-0.2995 ppb	0.07774	25.96%
Fe 238.204 Radial†	0.2	1.7201 ug/L		11.84265	1.7201 ppb	11.84265	688.50%
K 766.490 Radial†	54.6	11.840 ug/L		16.1668	11.840 ppb	16.1668	136.54%

Mg 279.077 IEC†	2.9	112.44 ug/L	37.818	112.44 ppb	37.818	33.63%
Mn 257.610†	110.2	0.1236 ug/L	0.01271	0.1236 ppb	0.01271	10.28%
Mo 202.031†	22.7	1.7601 ug/L	0.14050	1.7601 ppb	0.14050	7.98%
Na 589.592 Radial†	-72.5	-25.425 ug/L	19.5841	-25.425 ppb	19.5841	77.03%
Ni 231.604†	2.7	0.0721 ug/L	0.11649	0.0721 ppb	0.11649	161.58%
P 214.914†	1.7	0.9844 ug/L	2.71096	0.9844 ppb	2.71096	275.40%
Pb 220.353†	-47.6	-6.1490 ug/L	2.87397	-6.1490 ppb	2.87397	46.74%
S 181.975 Axial†	10.2	13.178 ug/L	2.1154	13.178 ppb	2.1154	16.05%
Sb 206.836†	-1.0	-0.3702 ug/L	2.94994	-0.3702 ppb	2.94994	796.79%
Se 196.026†	5.1	2.9135 ug/L	2.90028	2.9135 ppb	2.90028	99.55%
Si 251.611†	306.0	9.6168 ug/L	0.70986	9.6168 ppb	0.70986	7.38%
Sn 189.927†	-16.9	-3.1184 ug/L	0.54876	-3.1184 ppb	0.54876	17.60%
Sr 421.552†	-25.4	-0.2112 ug/L	0.27154	-0.2112 ppb	0.27154	128.55%
Ti 334.940†	204.2	0.3310 ug/L	0.08998	0.3310 ppb	0.08998	27.19%
Tl 190.801†	-11.9	-3.8433 ug/L	2.01172	-3.8433 ppb	2.01172	52.34%
U 409.014†	71.1	2.3006 ug/L	1.55433	2.3006 ppb	1.55433	67.56%
V 292.402†	84.2	0.6868 ug/L	0.08785	0.6868 ppb	0.08785	12.79%
Zn 213.857†	23.5	0.2346 ug/L	0.05224	0.2346 ppb	0.05224	22.27%
SiO2†	471.1	31.554 ug/L	7.5615	31.554 ppb	7.5615	23.96%

Sequence No.: 62

Sample ID: 1202036426|950319|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 83

Date Collected: 2/17/2010 22:55:09

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202036426|950319|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	3929.9	3929.9	98.8 %			22:57:22
1	Y RADIAL	4159.3	4159.3	100.7 %			22:57:02
1	Al 396.153Radial†	4767.1	4964.8	5112.9 ug/L		5112.9 ppb	22:57:02
1	Ca 317.933Radial†	2638.4	2645.0	5136.2 ug/L		5136.2 ppb	22:57:22
1	Fe 238.204 Radial†	475.3	469.8	5168.1 ug/L		5168.1 ppb	22:57:22
1	K 766.490 Radial†	25927.0	23022.2	4983.6 ug/L		4983.6 ppb	22:57:02
1	Mg 279.077 IEC†	135.7	135.9	5311.7 ug/L		5311.7 ppb	22:57:22
1	Na 589.592 Radial†	14570.6	14844.7	5206.7 ug/L		5206.7 ppb	22:57:02
1	Sr 421.552†	61470.3	62077.6	516.03 ug/L		516.03 ppb	22:57:02
1	Sc 361.383	819859.1	819859.1	103.03 %			22:58:21
1	Y 371.029	655606.1	655606.1	101.96 %			22:58:21
1	Ag 328.068†	97184.9	94141.7	486.03 ug/L		486.03 ppb	22:58:21
1	As 188.979†	1198.2	1190.7	508.56 ug/L		508.56 ppb	22:58:41
1	B 249.677†	21194.6	20513.3	487.19 ug/L		487.19 ppb	22:58:21
1	Ba 233.527†	61219.3	59412.8	499.98 ug/L		499.98 ppb	22:58:21
1	Be 313.107†	1369613.0	1333580.5	500.47 ug/L		500.47 ppb	22:58:21
1	Cd 226.502†	40355.6	39377.6	485.65 ug/L		485.65 ppb	22:58:41
1	Co 228.616†	23613.8	22997.9	484.81 ug/L		484.81 ppb	22:58:41
1	Cr 267.716†	40908.5	39008.5	482.86 ug/L		482.86 ppb	22:58:21
1	Cu 324.752†	170597.5	157262.4	489.31 ug/L		489.31 ppb	22:58:21
1	Mn 257.610†	438371.3	424930.3	494.10 ug/L		494.10 ppb	22:58:21
1	Mo 202.031†	6568.6	6354.4	493.00 ug/L		493.00 ppb	22:58:41
1	Ni 231.604†	19227.2	18570.3	496.07 ug/L		496.07 ppb	22:58:41
1	P 214.914†	1315.4	1033.4	470.57 ug/L		470.57 ppb	22:58:41
1	Pb 220.353†	3918.9	3819.6	495.44 ug/L		495.44 ppb	22:58:41
1	S 181.975 Axial†	4079.8	3898.2	5058.3 ug/L		5058.3 ppb	22:58:41
1	Sb 206.836†	1570.1	1480.0	538.51 ug/L		538.51 ppb	22:58:41
1	Se 196.026†	850.2	851.7	505.97 ug/L		505.97 ppb	22:58:41
1	Si 251.611†	159233.7	153885.8	4841.0 ug/L		4841.0 ppb	22:58:21
1	Sn 189.927†	2834.6	2715.6	502.33 ug/L		502.33 ppb	22:58:41
1	Ti 334.940†	308286.4	300824.2	498.83 ug/L		498.83 ppb	22:58:21
1	Tl 190.801†	1539.0	1515.1	491.71 ug/L		491.71 ppb	22:58:41
1	U 409.014†	11930.1	15152.2	485.16 ug/L		485.16 ppb	22:58:21
1	V 292.402†	63784.5	63680.9	500.60 ug/L		500.60 ppb	22:58:21
1	Zn 213.857†	51009.4	48647.7	481.25 ug/L		481.25 ppb	22:58:21
1	SiO2†	158179.5	152937.3	10247 ug/L		10247 ppb	22:59:41
2	Sc Radial	3926.4	3926.4	98.8 %			22:57:47
2	Y RADIAL	4140.7	4140.7	100.2 %			22:57:27
2	Al 396.153Radial†	4700.0	4901.1	5047.2 ug/L		5047.2 ppb	22:57:27
2	Ca 317.933Radial†	2613.6	2622.3	5092.1 ug/L		5092.1 ppb	22:57:47
2	Fe 238.204 Radial†	473.8	468.7	5155.9 ug/L		5155.9 ppb	22:57:47
2	K 766.490 Radial†	25593.1	22707.3	4915.4 ug/L		4915.4 ppb	22:57:27
2	Mg 279.077 IEC†	129.0	129.3	5054.2 ug/L		5054.2 ppb	22:57:47
2	Na 589.592 Radial†	14227.0	14509.8	5089.2 ug/L		5089.2 ppb	22:57:27
2	Sr 421.552†	60329.4	60977.3	506.88 ug/L		506.88 ppb	22:57:27
2	Sc 361.383	821819.5	821819.5	103.28 %			22:58:48
2	Y 371.029	656762.2	656762.2	102.14 %			22:58:48
2	Ag 328.068†	97663.0	94379.6	487.26 ug/L		487.26 ppb	22:58:48
2	As 188.979†	1186.0	1176.1	502.39 ug/L		502.39 ppb	22:59:08
2	B 249.677†	21445.2	20706.9	491.82 ug/L		491.82 ppb	22:58:48
2	Ba 233.527†	61516.2	59558.5	501.21 ug/L		501.21 ppb	22:58:48
2	Be 313.107†	1377322.0	1337873.8	502.08 ug/L		502.08 ppb	22:58:48
2	Cd 226.502†	40088.4	39025.5	481.31 ug/L		481.31 ppb	22:59:08
2	Co 228.616†	23524.0	22856.4	481.81 ug/L		481.81 ppb	22:59:08
2	Cr 267.716†	41169.7	39166.7	484.82 ug/L		484.82 ppb	22:58:48
2	Cu 324.752†	171400.0	157644.5	490.50 ug/L		490.50 ppb	22:58:48
2	Mn 257.610†	441090.2	426548.1	495.99 ug/L		495.99 ppb	22:58:48
2	Mo 202.031†	6535.1	6306.7	489.30 ug/L		489.30 ppb	22:59:08
2	Ni 231.604†	19146.7	18447.8	492.80 ug/L		492.80 ppb	22:59:08

2	P 214.914†	1323.0	1037.7	472.65 ug/L	472.65 ppb	22:59:08
2	Pb 220.353†	3903.9	3796.0	492.36 ug/L	492.36 ppb	22:59:08
2	S 181.975 Axial†	4045.5	3855.5	5003.0 ug/L	5003.0 ppb	22:59:08
2	Sb 206.836†	1567.0	1473.3	536.05 ug/L	536.05 ppb	22:59:08
2	Se 196.026†	863.4	862.5	512.13 ug/L	512.13 ppb	22:59:08
2	Si 251.611†	160109.6	154365.2	4856.1 ug/L	4856.1 ppb	22:58:48
2	Sn 189.927†	2828.1	2702.7	499.94 ug/L	499.94 ppb	22:59:08
2	Ti 334.940†	310056.7	301824.5	500.50 ug/L	500.50 ppb	22:58:48
2	Tl 190.801†	1530.1	1502.9	487.83 ug/L	487.83 ppb	22:59:08
2	U 409.014†	11959.7	15153.2	485.19 ug/L	485.19 ppb	22:58:48
2	V 292.402†	64166.7	63903.3	502.27 ug/L	502.27 ppb	22:58:48
2	Zn 213.857†	51318.5	48828.9	483.08 ug/L	483.08 ppb	22:58:48
2	SiO2†	160973.4	155276.3	10404 ug/L	10404 ppb	22:59:47
3	Sc Radial	3947.1	3947.1	99.3 %		22:58:12
3	Y RADIAL	4197.3	4197.3	101.6 %		22:57:52
3	Al 396.153Radial†	4737.6	4914.0	5060.0 ug/L	5060.0 ppb	22:57:52
3	Ca 317.933Radial†	2640.2	2635.2	5117.1 ug/L	5117.1 ppb	22:58:12
3	Fe 238.204 Radial†	470.3	462.7	5090.4 ug/L	5090.4 ppb	22:58:12
3	K 766.490 Radial†	25678.5	22657.3	4904.6 ug/L	4904.6 ppb	22:57:52
3	Mg 279.077 IEC†	136.8	136.5	5334.9 ug/L	5334.9 ppb	22:58:12
3	Na 589.592 Radial†	14192.4	14399.4	5050.5 ug/L	5050.5 ppb	22:57:52
3	Sr 421.552†	60922.2	61253.9	509.18 ug/L	509.18 ppb	22:57:52
3	Sc 361.383	812314.1	812314.1	102.08 %		22:59:16
3	Y 371.029	649355.9	649355.9	100.99 %		22:59:16
3	Ag 328.068†	96579.4	94424.7	487.47 ug/L	487.47 ppb	22:59:16
3	As 188.979†	1205.5	1208.6	516.14 ug/L	516.14 ppb	22:59:36
3	B 249.677†	21000.7	20514.5	487.20 ug/L	487.20 ppb	22:59:16
3	Ba 233.527†	60780.5	59534.9	501.01 ug/L	501.01 ppb	22:59:16
3	Be 313.107†	1359305.8	1335830.6	501.31 ug/L	501.31 ppb	22:59:16
3	Cd 226.502†	40485.1	39868.3	491.72 ug/L	491.72 ppb	22:59:36
3	Co 228.616†	23759.4	23353.5	492.32 ug/L	492.32 ppb	22:59:36
3	Cr 267.716†	40760.7	39232.5	485.63 ug/L	485.63 ppb	22:59:16
3	Cu 324.752†	169026.7	157261.7	489.30 ug/L	489.30 ppb	22:59:16
3	Mn 257.610†	435107.8	425685.4	494.97 ug/L	494.97 ppb	22:59:16
3	Mo 202.031†	6599.2	6443.6	499.91 ug/L	499.91 ppb	22:59:36
3	Ni 231.604†	19316.7	18831.2	503.04 ug/L	503.04 ppb	22:59:36
3	P 214.914†	1313.1	1043.0	475.90 ug/L	475.90 ppb	22:59:36
3	Pb 220.353†	3930.2	3866.0	501.45 ug/L	501.45 ppb	22:59:36
3	S 181.975 Axial†	4085.1	3940.1	5112.8 ug/L	5112.8 ppb	22:59:36
3	Sb 206.836†	1585.8	1509.5	549.16 ug/L	549.16 ppb	22:59:36
3	Se 196.026†	867.5	876.3	519.88 ug/L	519.88 ppb	22:59:36
3	Si 251.611†	157887.5	154002.6	4844.6 ug/L	4844.6 ppb	22:59:16
3	Sn 189.927†	2848.5	2754.8	509.59 ug/L	509.59 ppb	22:59:36
3	Ti 334.940†	306230.2	301589.1	500.09 ug/L	500.09 ppb	22:59:16
3	Tl 190.801†	1567.4	1556.8	505.12 ug/L	505.12 ppb	22:59:36
3	U 409.014†	11801.0	15133.3	484.56 ug/L	484.56 ppb	22:59:16
3	V 292.402†	63439.0	63917.5	502.54 ug/L	502.54 ppb	22:59:16
3	Zn 213.857†	50665.1	48770.2	482.44 ug/L	482.44 ppb	22:59:16
3	SiO2†	160358.8	156498.2	10485 ug/L	10485 ppb	22:59:52

Mean Data: 1202036426|950319|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	817997.6	102.80 %	0.631			0.61%
Sc Radial	3934.5	99.0 %	0.28			0.28%
Y 371.029	653908.1	101.70 %	0.620			0.61%
Y RADIAL	4165.8	100.8 %	0.70			0.69%
Ag 328.068†	94315.4	486.92 ug/L	0.775	486.92 ppb	0.775	0.16%
Al 396.153Radial†	4926.6	5073.3 ug/L	34.84	5073.3 ppb	34.84	0.69%
As 188.979†	1191.8	509.03 ug/L	6.884	509.03 ppb	6.884	1.35%
B 249.677†	20578.3	488.74 ug/L	2.667	488.74 ppb	2.667	0.55%
Ba 233.527†	59502.1	500.73 ug/L	0.658	500.73 ppb	0.658	0.13%
Be 313.107†	1335761.6	501.29 ug/L	0.806	501.29 ppb	0.806	0.16%
Ca 317.933Radial†	2634.1	5115.1 ug/L	22.15	5115.1 ppb	22.15	0.43%
Cd 226.502†	39423.8	486.22 ug/L	5.229	486.22 ppb	5.229	1.08%
Co 228.616†	23069.2	486.31 ug/L	5.411	486.31 ppb	5.411	1.11%
Cr 267.716†	39135.9	484.44 ug/L	1.424	484.44 ppb	1.424	0.29%
Cu 324.752†	157389.5	489.70 ug/L	0.688	489.70 ppb	0.688	0.14%
Fe 238.204 Radial†	467.1	5138.2 ug/L	41.80	5138.2 ppb	41.80	0.81%
K 766.490 Radial†	22795.6	4934.5 ug/L	42.83	4934.5 ppb	42.83	0.87%

Mg 279.077 IEC†	133.9	5233.6 ug/L	155.78	5233.6 ppb	155.78	2.98%
Mn 257.610†	425721.3	495.02 ug/L	0.946	495.02 ppb	0.946	0.19%
Mo 202.031†	6368.2	494.07 ug/L	5.384	494.07 ppb	5.384	1.09%
Na 589.592 Radial†	14584.6	5115.5 ug/L	81.33	5115.5 ppb	81.33	1.59%
Ni 231.604†	18616.4	497.30 ug/L	5.231	497.30 ppb	5.231	1.05%
P 214.914†	1038.0	473.04 ug/L	2.686	473.04 ppb	2.686	0.57%
Pb 220.353†	3827.2	496.42 ug/L	4.623	496.42 ppb	4.623	0.93%
S 181.975 Axial†	3897.9	5058.1 ug/L	54.90	5058.1 ppb	54.90	1.09%
Sb 206.836†	1487.6	541.24 ug/L	6.968	541.24 ppb	6.968	1.29%
Se 196.026†	863.5	512.66 ug/L	6.966	512.66 ppb	6.966	1.36%
Si 251.611†	154084.5	4847.2 ug/L	7.91	4847.2 ppb	7.91	0.16%
Sn 189.927†	2724.3	503.95 ug/L	5.023	503.95 ppb	5.023	1.00%
Sr 421.552†	61436.3	510.69 ug/L	4.758	510.69 ppb	4.758	0.93%
Ti 334.940†	301412.6	499.81 ug/L	0.872	499.81 ppb	0.872	0.17%
Tl 190.801†	1524.9	494.89 ug/L	9.076	494.89 ppb	9.076	1.83%
U 409.014†	15146.2	484.97 ug/L	0.358	484.97 ppb	0.358	0.07%
V 292.402†	63833.9	501.81 ug/L	1.051	501.81 ppb	1.051	0.21%
Zn 213.857†	48748.9	482.26 ug/L	0.929	482.26 ppb	0.929	0.19%
SiO2†	154903.9	10379 ug/L	121.3	10379 ppb	121.3	1.17%

Sequence No.: 63

Sample ID: 246323001|950319|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 84

Date Collected: 2/17/2010 23:02:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246323001|950319|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3938.5	3938.5	99.1 %		23:04:16
1	Y RADIAL	4173.2	4173.2	101.0 %		23:03:56
1	Al 396.153Radial†	-48.1	93.4	96.530 ug/L	96.530 ppb	23:03:56
1	Ca 317.933Radial†	42.7	18.8	36.557 ug/L	36.557 ppb	23:04:16
1	Fe 238.204 Radial†	15.4	4.5	49.060 ug/L	49.060 ppb	23:04:16
1	K 766.490 Radial†	3855.4	683.9	148.11 ug/L	148.11 ppb	23:03:56
1	Mg 279.077 IEC†	-1.3	-2.7	-104.41 ug/L	-104.41 ppb	23:04:16
1	Na 589.592 Radial†	238.4	344.4	120.78 ug/L	120.78 ppb	23:03:56
1	Sr 421.552†	175.6	65.6	0.5452 ug/L	0.5452 ppb	23:03:56
1	Sc 361.383	819643.3	819643.3	103.00 %		23:05:13
1	Y 371.029	661267.8	661267.8	102.84 %		23:05:13
1	Ag 328.068†	217.9	26.0	0.1514 ug/L	0.1514 ppb	23:05:13
1	As 188.979†	-36.1	-7.4	-3.1095 ug/L	-3.1095 ppb	23:05:33
1	B 249.677†	707.5	628.8	14.993 ug/L	14.993 ppb	23:05:13
1	Ba 233.527†	143.6	132.9	1.1191 ug/L	1.1191 ppb	23:05:33
1	Be 313.107†	-3918.9	433.7	0.1699 ug/L	0.1699 ppb	23:05:13
1	Cd 226.502†	-208.0	6.7	0.0775 ug/L	0.0775 ppb	23:05:33
1	Co 228.616†	-63.1	17.2	0.3621 ug/L	0.3621 ppb	23:05:33
1	Cr 267.716†	110.2	-590.2	-7.2943 ug/L	-7.2943 ppb	23:05:33
1	Cu 324.752†	8921.1	342.1	1.0675 ug/L	1.0675 ppb	23:05:13
1	Mn 257.610†	3493.8	2840.5	3.3101 ug/L	3.3101 ppb	23:05:13
1	Mo 202.031†	39.7	17.4	1.3537 ug/L	1.3537 ppb	23:05:33
1	Ni 231.604†	131.9	36.5	0.9751 ug/L	0.9751 ppb	23:05:33
1	P 214.914†	267.9	16.8	8.9386 ug/L	8.9386 ppb	23:05:33
1	Pb 220.353†	-46.3	-29.0	-3.7311 ug/L	-3.7311 ppb	23:05:33
1	S 181.975 Axial†	87.9	23.7	30.696 ug/L	30.696 ppb	23:05:33
1	Sb 206.836†	48.4	3.0	1.0180 ug/L	1.0180 ppb	23:05:33
1	Se 196.026†	-20.3	6.8	4.0324 ug/L	4.0324 ppb	23:05:33
1	Si 251.611†	51183.6	49025.8	1544.2 ug/L	1544.2 ppb	23:05:13
1	Sn 189.927†	15.7	-20.4	-3.7799 ug/L	-3.7799 ppb	23:05:33
1	Ti 334.940†	401.7	1992.3	3.3210 ug/L	3.3210 ppb	23:05:13
1	Tl 190.801†	-38.0	-15.5	-4.9570 ug/L	-4.9570 ppb	23:05:33
1	U 409.014†	-3707.1	-26.2	-0.8299 ug/L	-0.8299 ppb	23:05:13
1	V 292.402†	-1726.6	95.6	0.7493 ug/L	0.7493 ppb	23:05:13
1	Zn 213.857†	1061.2	168.4	1.6671 ug/L	1.6671 ppb	23:05:33
1	SiO2†	51201.8	49118.1	3295.1 ug/L	3295.1 ppb	23:06:29
2	Sc Radial	3969.3	3969.3	99.8 %		23:04:41
2	Y RADIAL	4177.4	4177.4	101.1 %		23:04:21
2	Al 396.153Radial†	-56.4	85.4	88.274 ug/L	88.274 ppb	23:04:21
2	Ca 317.933Radial†	48.3	24.1	46.833 ug/L	46.833 ppb	23:04:41
2	Fe 238.204 Radial†	18.7	7.7	84.608 ug/L	84.608 ppb	23:04:41
2	K 766.490 Radial†	3759.5	557.7	120.77 ug/L	120.77 ppb	23:04:21
2	Mg 279.077 IEC†	5.4	4.1	159.04 ug/L	159.04 ppb	23:04:41
2	Na 589.592 Radial†	197.6	301.6	105.79 ug/L	105.79 ppb	23:04:21
2	Sr 421.552†	122.6	11.2	0.0925 ug/L	0.0925 ppb	23:04:21
2	Sc 361.383	804586.4	804586.4	101.11 %		23:05:38
2	Y 371.029	649472.1	649472.1	101.01 %		23:05:38
2	Ag 328.068†	247.3	59.0	0.3304 ug/L	0.3304 ppb	23:05:38
2	As 188.979†	-33.0	-5.0	-2.0771 ug/L	-2.0771 ppb	23:05:58
2	B 249.677†	765.3	698.8	16.659 ug/L	16.659 ppb	23:05:38
2	Ba 233.527†	156.3	148.1	1.2472 ug/L	1.2472 ppb	23:05:58
2	Be 313.107†	-3845.6	435.0	0.1702 ug/L	0.1702 ppb	23:05:38
2	Cd 226.502†	-203.1	7.7	0.0871 ug/L	0.0871 ppb	23:05:58
2	Co 228.616†	-71.4	7.8	0.1659 ug/L	0.1659 ppb	23:05:58
2	Cr 267.716†	120.5	-578.0	-7.1426 ug/L	-7.1426 ppb	23:05:58
2	Cu 324.752†	8806.6	391.0	1.2215 ug/L	1.2215 ppb	23:05:38
2	Mn 257.610†	3528.4	2938.2	3.4164 ug/L	3.4164 ppb	23:05:38
2	Mo 202.031†	47.8	26.2	2.0353 ug/L	2.0353 ppb	23:05:58
2	Ni 231.604†	126.2	33.3	0.8894 ug/L	0.8894 ppb	23:05:58

2	P 214.914†	266.3	20.0	10.664 ug/L	10.664 ppb	23:05:58
2	Pb 220.353†	-68.9	-52.2	-6.7263 ug/L	-6.7263 ppb	23:05:58
2	S 181.975 Axial†	85.9	23.2	30.138 ug/L	30.138 ppb	23:05:58
2	Sb 206.836†	33.7	-10.7	-3.7604 ug/L	-3.7604 ppb	23:05:58
2	Se 196.026†	-21.9	4.8	2.9966 ug/L	2.9966 ppb	23:05:58
2	Si 251.611†	50418.3	49198.8	1549.6 ug/L	1549.6 ppb	23:05:38
2	Sn 189.927†	22.4	-13.5	-2.5049 ug/L	-2.5049 ppb	23:05:58
2	Ti 334.940†	357.2	1955.6	3.2398 ug/L	3.2398 ppb	23:05:38
2	Tl 190.801†	-34.6	-12.9	-4.1211 ug/L	-4.1211 ppb	23:05:58
2	U 409.014†	-3634.9	-22.1	-0.7038 ug/L	-0.7038 ppb	23:05:38
2	V 292.402†	-1729.9	61.0	0.4902 ug/L	0.4902 ppb	23:05:38
2	Zn 213.857†	1039.2	165.9	1.6367 ug/L	1.6367 ppb	23:05:58
2	SiO2†	50049.0	48908.3	3281.0 ug/L	3281.0 ppb	23:06:34
3	Sc Radial	3970.3	3970.3	99.9 %		23:05:06
3	Y RADIAL	4244.7	4244.7	102.8 %		23:04:46
3	Al 396.153Radial†	-60.5	81.3	84.026 ug/L	84.026 ppb	23:04:46
3	Ca 317.933Radial†	46.8	22.6	43.823 ug/L	43.823 ppb	23:05:06
3	Fe 238.204 Radial†	19.5	8.5	93.638 ug/L	93.638 ppb	23:05:06
3	K 766.490 Radial†	3804.8	602.1	130.41 ug/L	130.41 ppb	23:04:46
3	Mg 279.077 IEC†	1.9	0.5	21.072 ug/L	21.072 ppb	23:05:06
3	Na 589.592 Radial†	121.6	225.4	79.073 ug/L	79.073 ppb	23:04:46
3	Sr 421.552†	69.2	-42.4	-0.3527 ug/L	-0.3527 ppb	23:04:46
3	Sc 361.383	807097.1	807097.1	101.43 %		23:06:04
3	Y 371.029	651865.0	651865.0	101.38 %		23:06:04
3	Ag 328.068†	257.3	68.1	0.3767 ug/L	0.3767 ppb	23:06:04
3	As 188.979†	-29.2	-1.1	-0.4265 ug/L	-0.4265 ppb	23:06:24
3	B 249.677†	673.7	606.2	14.445 ug/L	14.445 ppb	23:06:04
3	Ba 233.527†	117.9	109.8	0.9263 ug/L	0.9263 ppb	23:06:24
3	Be 313.107†	-3949.9	344.1	0.1364 ug/L	0.1364 ppb	23:06:04
3	Cd 226.502†	-207.4	4.2	0.0430 ug/L	0.0430 ppb	23:06:24
3	Co 228.616†	-60.7	18.6	0.3914 ug/L	0.3914 ppb	23:06:24
3	Cr 267.716†	122.1	-576.8	-7.1304 ug/L	-7.1304 ppb	23:06:24
3	Cu 324.752†	8865.5	421.9	1.3152 ug/L	1.3152 ppb	23:06:04
3	Mn 257.610†	3447.0	2847.2	3.3170 ug/L	3.3170 ppb	23:06:04
3	Mo 202.031†	40.9	19.2	1.4963 ug/L	1.4963 ppb	23:06:24
3	Ni 231.604†	105.5	12.5	0.3328 ug/L	0.3328 ppb	23:06:24
3	P 214.914†	260.0	13.0	6.7775 ug/L	6.7775 ppb	23:06:24
3	Pb 220.353†	-62.2	-45.3	-5.8453 ug/L	-5.8453 ppb	23:06:24
3	S 181.975 Axial†	91.2	28.3	36.690 ug/L	36.690 ppb	23:06:24
3	Sb 206.836†	48.6	4.0	1.3732 ug/L	1.3732 ppb	23:06:24
3	Se 196.026†	-20.7	6.0	3.7486 ug/L	3.7486 ppb	23:06:24
3	Si 251.611†	50211.7	48839.9	1538.3 ug/L	1538.3 ppb	23:06:04
3	Sn 189.927†	23.6	-12.4	-2.2998 ug/L	-2.2998 ppb	23:06:24
3	Ti 334.940†	425.4	2021.8	3.3581 ug/L	3.3581 ppb	23:06:04
3	Tl 190.801†	-33.9	-12.1	-3.8448 ug/L	-3.8448 ppb	23:06:24
3	U 409.014†	-3476.9	144.9	4.6592 ug/L	4.6592 ppb	23:06:04
3	V 292.402†	-1697.2	98.5	0.7802 ug/L	0.7802 ppb	23:06:04
3	Zn 213.857†	1047.5	170.9	1.6890 ug/L	1.6890 ppb	23:06:24
3	SiO2†	51031.7	49723.2	3335.7 ug/L	3335.7 ppb	23:06:39

Mean Data: 246323001|950319|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	810442.3	101.85 %	1.014			1.00%
Sc Radial	3959.3	99.6 %	0.45			0.46%
Y 371.029	654201.6	101.74 %	0.970			0.95%
Y RADIAL	4198.4	101.6 %	0.97			0.95%
Ag 328.068†	51.0	0.2862 ug/L	0.11901	0.2862 ppb	0.11901	41.59%
Al 396.153Radial†	86.7	89.610 ug/L	6.3582	89.610 ppb	6.3582	7.10%
As 188.979†	-4.5	-1.8710 ug/L	1.35334	-1.8710 ppb	1.35334	72.33%
B 249.677†	644.6	15.366 ug/L	1.1528	15.366 ppb	1.1528	7.50%
Ba 233.527†	130.3	1.0975 ug/L	0.16154	1.0975 ppb	0.16154	14.72%
Be 313.107†	404.3	0.1589 ug/L	0.01942	0.1589 ppb	0.01942	12.22%
Ca 317.933Radial†	21.8	42.404 ug/L	5.2831	42.404 ppb	5.2831	12.46%
Cd 226.502†	6.2	0.0692 ug/L	0.02319	0.0692 ppb	0.02319	33.52%
Co 228.616†	14.6	0.3065 ug/L	0.12260	0.3065 ppb	0.12260	40.00%
Cr 267.716†	-581.7	-7.1891 ug/L	0.09132	-7.1891 ppb	0.09132	1.27%
Cu 324.752†	385.0	1.2014 ug/L	0.12509	1.2014 ppb	0.12509	10.41%
Fe 238.204 Radial†	6.9	75.769 ug/L	23.5673	75.769 ppb	23.5673	31.10%
K 766.490 Radial†	614.6	133.10 ug/L	13.868	133.10 ppb	13.868	10.42%

Mg 279.077 IEC†	0.6	25.234 ug/L	131.7714	25.234 ppb	131.7714	522.19%
Mn 257.610†	2875.3	3.3478 ug/L	0.05946	3.3478 ppb	0.05946	1.78%
Mo 202.031†	20.9	1.6284 ug/L	0.35952	1.6284 ppb	0.35952	22.08%
Na 589.592 Radial†	290.5	101.88 ug/L	21.126	101.88 ppb	21.126	20.74%
Ni 231.604†	27.4	0.7324 ug/L	0.34877	0.7324 ppb	0.34877	47.62%
P 214.914†	16.6	8.7934 ug/L	1.94741	8.7934 ppb	1.94741	22.15%
Pb 220.353†	-42.2	-5.4342 ug/L	1.53938	-5.4342 ppb	1.53938	28.33%
S 181.975 Axial†	25.1	32.508 ug/L	3.6326	32.508 ppb	3.6326	11.17%
Sb 206.836†	-1.2	-0.4564 ug/L	2.86687	-0.4564 ppb	2.86687	628.12%
Se 196.026†	5.9	3.5925 ug/L	0.53521	3.5925 ppb	0.53521	14.90%
Si 251.611†	49021.5	1544.0 ug/L	5.65	1544.0 ppb	5.65	0.37%
Sn 189.927†	-15.5	-2.8616 ug/L	0.80189	-2.8616 ppb	0.80189	28.02%
Sr 421.552†	11.5	0.0950 ug/L	0.44900	0.0950 ppb	0.44900	472.56%
Ti 334.940†	1989.9	3.3063 ug/L	0.06048	3.3063 ppb	0.06048	1.83%
Tl 190.801†	-13.5	-4.3076 ug/L	0.57909	-4.3076 ppb	0.57909	13.44%
U 409.014†	32.2	1.0418 ug/L	3.13339	1.0418 ppb	3.13339	300.76%
V 292.402†	85.0	0.6732 ug/L	0.15924	0.6732 ppb	0.15924	23.65%
Zn 213.857†	168.4	1.6643 ug/L	0.02624	1.6643 ppb	0.02624	1.58%
SiO2†	49249.8	3304.0 ug/L	28.39	3304.0 ppb	28.39	0.86%

Sequence No.: 65

Sample ID: 1202036427|950319|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 86

Date Collected: 2/17/2010 23:15:39

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202036427|950319|1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3976.2	3976.2	100 %		23:17:52
1	Y RADIAL	4263.8	4263.8	103.2 %		23:17:32
1	Al 396.153Radial†	-79.0	62.9	65.103 ug/L	65.103 ppb	23:17:32
1	Ca 317.933Radial†	45.4	21.1	41.051 ug/L	41.051 ppb	23:17:52
1	Fe 238.204 Radial†	16.1	5.0	55.121 ug/L	55.121 ppb	23:17:52
1	K 766.490 Radial†	3844.5	636.2	137.78 ug/L	137.78 ppb	23:17:32
1	Mg 279.077 IEC†	3.2	1.8	71.667 ug/L	71.667 ppb	23:17:52
1	Na 589.592 Radial†	242.1	345.8	121.27 ug/L	121.27 ppb	23:17:32
1	Sr 421.552†	83.3	-28.4	-0.2360 ug/L	-0.2360 ppb	23:17:32
1	Sc 361.383	818180.6	818180.6	102.82 %		23:18:49
1	Y 371.029	658830.6	658830.6	102.46 %		23:18:49
1	Ag 328.068†	189.3	-1.5	0.0130 ug/L	0.0130 ppb	23:18:49
1	As 188.979†	-32.1	-3.6	-1.4844 ug/L	-1.4844 ppb	23:19:09
1	B 249.677†	605.4	530.8	12.655 ug/L	12.655 ppb	23:18:49
1	Ba 233.527†	94.1	85.1	0.7173 ug/L	0.7173 ppb	23:19:09
1	Be 313.107†	-4266.6	88.8	0.0384 ug/L	0.0384 ppb	23:18:49
1	Cd 226.502†	-219.4	-4.7	-0.0640 ug/L	-0.0640 ppb	23:19:09
1	Co 228.616†	-79.5	1.1	0.0222 ug/L	0.0222 ppb	23:19:09
1	Cr 267.716†	135.6	-565.3	-6.9853 ug/L	-6.9853 ppb	23:18:49
1	Cu 324.752†	8884.5	322.0	1.0061 ug/L	1.0061 ppb	23:18:49
1	Mn 257.610†	2917.3	2285.9	2.6589 ug/L	2.6589 ppb	23:18:49
1	Mo 202.031†	26.3	4.5	0.3538 ug/L	0.3538 ppb	23:19:09
1	Ni 231.604†	108.2	13.6	0.3639 ug/L	0.3639 ppb	23:19:09
1	P 214.914†	278.0	27.1	14.557 ug/L	14.557 ppb	23:19:09
1	Pb 220.353†	-52.3	-34.9	-4.5058 ug/L	-4.5058 ppb	23:19:09
1	S 181.975 Axial†	83.5	19.5	25.355 ug/L	25.355 ppb	23:19:09
1	Sb 206.836†	37.3	-7.7	-2.7890 ug/L	-2.7890 ppb	23:19:09
1	Se 196.026†	-15.5	11.4	6.7352 ug/L	6.7352 ppb	23:19:09
1	Si 251.611†	50828.1	48768.9	1536.1 ug/L	1536.1 ppb	23:18:49
1	Sn 189.927†	12.1	-24.0	-4.4334 ug/L	-4.4334 ppb	23:19:09
1	Ti 334.940†	-239.1	1369.8	2.2752 ug/L	2.2752 ppb	23:18:49
1	Tl 190.801†	-30.5	-8.3	-2.6428 ug/L	-2.6428 ppb	23:19:09
1	U 409.014†	-3745.1	-69.5	-2.2242 ug/L	-2.2242 ppb	23:18:49
1	V 292.402†	-1732.0	87.4	0.6720 ug/L	0.6720 ppb	23:18:49
1	Zn 213.857†	1025.9	135.9	1.3455 ug/L	1.3455 ppb	23:19:09
1	SiO2†	50657.6	48677.7	3265.6 ug/L	3265.6 ppb	23:20:05
2	Sc Radial	3986.2	3986.2	100 %		23:18:17
2	Y RADIAL	4245.0	4245.0	102.8 %		23:17:57
2	Al 396.153Radial†	-81.7	60.4	62.469 ug/L	62.469 ppb	23:17:57
2	Ca 317.933Radial†	45.3	21.0	40.722 ug/L	40.722 ppb	23:18:17
2	Fe 238.204 Radial†	14.9	3.8	42.183 ug/L	42.183 ppb	23:18:17
2	K 766.490 Radial†	3753.9	536.1	116.10 ug/L	116.10 ppb	23:17:57
2	Mg 279.077 IEC†	4.5	3.2	123.62 ug/L	123.62 ppb	23:18:17
2	Na 589.592 Radial†	158.4	261.7	91.784 ug/L	91.784 ppb	23:17:57
2	Sr 421.552†	106.9	-5.1	-0.0424 ug/L	-0.0424 ppb	23:17:57
2	Sc 361.383	811341.4	811341.4	101.96 %		23:19:15
2	Y 371.029	653604.1	653604.1	101.65 %		23:19:15
2	Ag 328.068†	110.0	-77.8	-0.3843 ug/L	-0.3843 ppb	23:19:15
2	As 188.979†	-32.0	-3.8	-1.5683 ug/L	-1.5683 ppb	23:19:35
2	B 249.677†	574.0	504.9	12.039 ug/L	12.039 ppb	23:19:15
2	Ba 233.527†	108.1	99.6	0.8383 ug/L	0.8383 ppb	23:19:35
2	Be 313.107†	-4103.2	214.1	0.0856 ug/L	0.0856 ppb	23:19:15
2	Cd 226.502†	-213.4	-0.7	-0.0125 ug/L	-0.0125 ppb	23:19:35
2	Co 228.616†	-74.5	5.4	0.1103 ug/L	0.1103 ppb	23:19:35
2	Cr 267.716†	185.6	-515.2	-6.3675 ug/L	-6.3675 ppb	23:19:15
2	Cu 324.752†	8966.5	475.3	1.4814 ug/L	1.4814 ppb	23:19:15
2	Mn 257.610†	2871.0	2264.4	2.6305 ug/L	2.6305 ppb	23:19:15
2	Mo 202.031†	17.3	-4.1	-0.3165 ug/L	-0.3165 ppb	23:19:35
2	Ni 231.604†	110.9	17.2	0.4588 ug/L	0.4588 ppb	23:19:35

2	P 214.914†	262.1	13.7	7.1842 ug/L	7.1842 ppb	23:19:35
2	Pb 220.353†	-61.3	-44.2	-5.7042 ug/L	-5.7042 ppb	23:19:35
2	S 181.975 Axial†	72.0	8.9	11.560 ug/L	11.560 ppb	23:19:35
2	Sb 206.836†	47.4	2.5	0.8298 ug/L	0.8298 ppb	23:19:35
2	Se 196.026†	-24.5	2.5	1.5354 ug/L	1.5354 ppb	23:19:35
2	Si 251.611†	50604.1	48965.9	1542.3 ug/L	1542.3 ppb	23:19:15
2	Sn 189.927†	19.5	-16.6	-3.0597 ug/L	-3.0597 ppb	23:19:35
2	Ti 334.940†	-159.6	1445.8	2.3959 ug/L	2.3959 ppb	23:19:15
2	Tl 190.801†	-34.5	-12.5	-3.9956 ug/L	-3.9956 ppb	23:19:35
2	U 409.014†	-3659.2	-16.0	-0.5041 ug/L	-0.5041 ppb	23:19:15
2	V 292.402†	-1750.4	55.1	0.4180 ug/L	0.4180 ppb	23:19:15
2	Zn 213.857†	1036.2	154.4	1.5309 ug/L	1.5309 ppb	23:19:35
2	SiO2†	50460.0	48899.2	3280.5 ug/L	3280.5 ppb	23:20:10
3	Sc Radial	3959.0	3959.0	99.6 %		23:18:42
3	Y RADIAL	4169.2	4169.2	100.9 %		23:18:22
3	Al 396.153Radial†	-99.8	41.7	43.116 ug/L	43.116 ppb	23:18:22
3	Ca 317.933Radial†	45.7	21.7	42.051 ug/L	42.051 ppb	23:18:42
3	Fe 238.204 Radial†	16.3	5.3	58.055 ug/L	58.055 ppb	23:18:42
3	K 766.490 Radial†	3643.1	450.5	97.561 ug/L	97.561 ppb	23:18:22
3	Mg 279.077 IEC†	4.1	2.8	107.48 ug/L	107.48 ppb	23:18:42
3	Na 589.592 Radial†	174.9	279.3	97.968 ug/L	97.968 ppb	23:18:22
3	Sr 421.552†	71.7	-39.6	-0.3297 ug/L	-0.3297 ppb	23:18:22
3	Sc 361.383	810432.7	810432.7	101.84 %		23:19:40
3	Y 371.029	653147.0	653147.0	101.58 %		23:19:40
3	Ag 328.068†	342.9	151.1	0.7931 ug/L	0.7931 ppb	23:19:40
3	As 188.979†	-36.9	-8.6	-3.6039 ug/L	-3.6039 ppb	23:20:00
3	B 249.677†	576.0	507.6	12.099 ug/L	12.099 ppb	23:19:40
3	Ba 233.527†	105.3	97.0	0.8177 ug/L	0.8177 ppb	23:20:00
3	Be 313.107†	-4158.2	155.5	0.0634 ug/L	0.0634 ppb	23:19:40
3	Cd 226.502†	-223.6	-10.9	-0.1397 ug/L	-0.1397 ppb	23:20:00
3	Co 228.616†	-61.2	18.3	0.3853 ug/L	0.3853 ppb	23:20:00
3	Cr 267.716†	169.0	-531.3	-6.5669 ug/L	-6.5669 ppb	23:19:40
3	Cu 324.752†	8739.4	262.2	0.8167 ug/L	0.8167 ppb	23:19:40
3	Mn 257.610†	2876.1	2272.6	2.6423 ug/L	2.6423 ppb	23:19:40
3	Mo 202.031†	27.6	6.0	0.4691 ug/L	0.4691 ppb	23:20:00
3	Ni 231.604†	122.0	28.2	0.7546 ug/L	0.7546 ppb	23:20:00
3	P 214.914†	247.7	-0.1	-0.2781 ug/L	-0.2781 ppb	23:20:00
3	Pb 220.353†	-73.9	-56.6	-7.3124 ug/L	-7.3124 ppb	23:20:00
3	S 181.975 Axial†	80.9	17.7	23.023 ug/L	23.023 ppb	23:20:00
3	Sb 206.836†	28.2	-16.3	-5.7836 ug/L	-5.7836 ppb	23:20:00
3	Se 196.026†	-19.4	7.5	4.4650 ug/L	4.4650 ppb	23:20:00
3	Si 251.611†	50152.6	48578.2	1530.1 ug/L	1530.1 ppb	23:19:40
3	Sn 189.927†	19.5	-16.6	-3.0625 ug/L	-3.0625 ppb	23:20:00
3	Ti 334.940†	-235.8	1370.8	2.2713 ug/L	2.2713 ppb	23:19:40
3	Tl 190.801†	-32.9	-11.0	-3.5090 ug/L	-3.5090 ppb	23:20:00
3	U 409.014†	-3522.2	114.5	3.6872 ug/L	3.6872 ppb	23:19:40
3	V 292.402†	-1682.3	120.0	0.9386 ug/L	0.9386 ppb	23:19:40
3	Zn 213.857†	1029.4	148.8	1.4718 ug/L	1.4718 ppb	23:20:00
3	SiO2†	50493.9	48988.0	3286.4 ug/L	3286.4 ppb	23:20:16

Mean Data: 1202036427|950319|1

	Mean Corrected		Calib.			Sample			
Analyte	Intensity	Conc.	Units	Std.Dev.		Conc.	Units	Std.Dev.	RSD
Sc 361.383	813318.2	102.21	%	0.532					0.52%
Sc Radial	3973.8	99.9	%	0.35					0.35%
Y 371.029	655193.9	101.90	%	0.491					0.48%
Y RADIAL	4226.0	102.3	%	1.21					1.19%
Ag 328.068†	23.9	0.1406	ug/L	0.59895	0.1406	ppb	0.59895	425.98%	
Al 396.153Radial†	55.0	56.896	ug/L	12.0061	56.896	ppb	12.0061	21.10%	
As 188.979†	-5.3	-2.2188	ug/L	1.20020	-2.2188	ppb	1.20020	54.09%	
B 249.677†	514.4	12.264	ug/L	0.3394	12.264	ppb	0.3394	2.77%	
Ba 233.527†	93.9	0.7911	ug/L	0.06477	0.7911	ppb	0.06477	8.19%	
Be 313.107†	152.8	0.0625	ug/L	0.02362	0.0625	ppb	0.02362	37.81%	
Ca 317.933Radial†	21.3	41.275	ug/L	0.6920	41.275	ppb	0.6920	1.68%	
Cd 226.502†	-5.4	-0.0721	ug/L	0.06399	-0.0721	ppb	0.06399	88.80%	
Co 228.616†	8.3	0.1726	ug/L	0.18938	0.1726	ppb	0.18938	109.73%	
Cr 267.716†	-537.2	-6.6399	ug/L	0.31533	-6.6399	ppb	0.31533	4.75%	
Cu 324.752†	353.2	1.1014	ug/L	0.34243	1.1014	ppb	0.34243	31.09%	
Fe 238.204 Radial†	4.7	51.786	ug/L	8.4452	51.786	ppb	8.4452	16.31%	
K 766.490 Radial†	540.9	117.15	ug/L	20.129	117.15	ppb	20.129	17.18%	

Mg 279.077 IEC†	2.6	100.92 ug/L	26.591	100.92 ppb	26.591	26.35%
Mn 257.610†	2274.3	2.6439 ug/L	0.01426	2.6439 ppb	0.01426	0.54%
Mo 202.031†	2.1	0.1688 ug/L	0.42425	0.1688 ppb	0.42425	251.34%
Na 589.592 Radial†	295.6	103.68 ug/L	15.552	103.68 ppb	15.552	15.00%
Ni 231.604†	19.7	0.5258 ug/L	0.20375	0.5258 ppb	0.20375	38.75%
P 214.914†	13.6	7.1545 ug/L	7.41782	7.1545 ppb	7.41782	103.68%
Pb 220.353†	-45.2	-5.8408 ug/L	1.40826	-5.8408 ppb	1.40826	24.11%
S 181.975 Axial†	15.4	19.979 ug/L	7.3840	19.979 ppb	7.3840	36.96%
Sb 206.836†	-7.2	-2.5809 ug/L	3.31160	-2.5809 ppb	3.31160	128.31%
Se 196.026†	7.1	4.2452 ug/L	2.60687	4.2452 ppb	2.60687	61.41%
Si 251.611†	48771.0	1536.2 ug/L	6.11	1536.2 ppb	6.11	0.40%
Sn 189.927†	-19.0	-3.5186 ug/L	0.79228	-3.5186 ppb	0.79228	22.52%
Sr 421.552†	-24.3	-0.2027 ug/L	0.14652	-0.2027 ppb	0.14652	72.29%
Ti 334.940†	1395.5	2.3141 ug/L	0.07087	2.3141 ppb	0.07087	3.06%
Tl 190.801†	-10.6	-3.3824 ug/L	0.68524	-3.3824 ppb	0.68524	20.26%
U 409.014†	9.7	0.3196 ug/L	3.04059	0.3196 ppb	3.04059	951.25%
V 292.402†	87.5	0.6762 ug/L	0.26036	0.6762 ppb	0.26036	38.50%
Zn 213.857†	146.4	1.4494 ug/L	0.09472	1.4494 ppb	0.09472	6.53%
SiO2†	48855.0	3277.5 ug/L	10.72	3277.5 ppb	10.72	0.33%

Sequence No.: 66

Sample ID: 1202036428|950319|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 87

Date Collected: 2/17/2010 23:22:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202036428|950319|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4043.7	4043.7	102 %			23:24:20
1	Y RADIAL	4203.8	4203.8	101.8 %			23:24:20
1	Al 396.153Radial†	4772.4	4834.3	4978.2 ug/L		4978.2 ppb	23:24:20
1	Ca 317.933Radial†	2633.7	2565.3	4981.4 ug/L		4981.4 ppb	23:24:40
1	Fe 238.204 Radial†	475.4	456.4	5020.5 ug/L		5020.5 ppb	23:24:40
1	K 766.490 Radial†	26396.2	22745.4	4923.8 ug/L		4923.8 ppb	23:24:20
1	Mg 279.077 IEC†	133.9	130.3	5094.8 ug/L		5094.8 ppb	23:24:40
1	Na 589.592 Radial†	14425.6	14287.3	5011.2 ug/L		5011.2 ppb	23:24:20
1	Sr 421.552†	60035.7	58916.9	489.75 ug/L		489.75 ppb	23:24:20
1	Sc 361.383	815990.4	815990.4	102.54 %			23:25:39
1	Y 371.029	652844.0	652844.0	101.53 %			23:25:39
1	Ag 328.068†	95398.1	92846.4	479.34 ug/L		479.34 ppb	23:25:39
1	As 188.979†	1155.0	1154.0	492.98 ug/L		492.98 ppb	23:25:59
1	B 249.677†	21878.1	21277.5	505.47 ug/L		505.47 ppb	23:25:39
1	Ba 233.527†	60405.9	58901.3	495.68 ug/L		495.68 ppb	23:25:39
1	Be 313.107†	1347796.4	1318607.4	494.85 ug/L		494.85 ppb	23:25:39
1	Cd 226.502†	39147.3	38385.0	473.41 ug/L		473.41 ppb	23:25:59
1	Co 228.616†	22977.7	22486.3	474.01 ug/L		474.01 ppb	23:25:59
1	Cr 267.716†	40528.8	38826.4	480.61 ug/L		480.61 ppb	23:25:39
1	Cu 324.752†	168549.5	156050.3	485.54 ug/L		485.54 ppb	23:25:39
1	Mn 257.610†	434484.6	423157.3	492.03 ug/L		492.03 ppb	23:25:39
1	Mo 202.031†	6431.2	6250.6	484.95 ug/L		484.95 ppb	23:25:59
1	Ni 231.604†	18772.7	18215.5	486.59 ug/L		486.59 ppb	23:25:59
1	P 214.914†	1283.7	1008.5	457.80 ug/L		457.80 ppb	23:25:59
1	Pb 220.353†	3824.8	3745.9	485.87 ug/L		485.87 ppb	23:25:59
1	S 181.975 Axial†	3933.4	3774.2	4897.5 ug/L		4897.5 ppb	23:25:59
1	Sb 206.836†	1520.4	1438.7	523.89 ug/L		523.89 ppb	23:25:59
1	Se 196.026†	817.2	823.4	489.24 ug/L		489.24 ppb	23:25:59
1	Si 251.611†	208397.9	202563.4	6374.3 ug/L		6374.3 ppb	23:25:39
1	Sn 189.927†	2843.0	2736.8	506.25 ug/L		506.25 ppb	23:25:59
1	Ti 334.940†	304740.3	298784.6	495.45 ug/L		495.45 ppb	23:25:39
1	Tl 190.801†	1482.4	1467.0	476.23 ug/L		476.23 ppb	23:25:59
1	U 409.014†	11567.7	14853.7	475.59 ug/L		475.59 ppb	23:25:39
1	V 292.402†	62998.8	63208.2	496.83 ug/L		496.83 ppb	23:25:39
1	Zn 213.857†	50190.8	48084.1	475.71 ug/L		475.71 ppb	23:25:39
1	SiO2†	209556.1	203767.6	13657 ug/L		13657 ppb	23:26:59
2	Sc Radial	4106.1	4106.1	103 %			23:24:45
2	Y RADIAL	4237.0	4237.0	102.6 %			23:24:45
2	Al 396.153Radial†	4803.1	4792.6	4935.4 ug/L		4935.4 ppb	23:24:45
2	Ca 317.933Radial†	2622.2	2514.7	4883.3 ug/L		4883.3 ppb	23:25:05
2	Fe 238.204 Radial†	469.2	443.2	4876.4 ug/L		4876.4 ppb	23:25:05
2	K 766.490 Radial†	26516.5	22467.0	4863.5 ug/L		4863.5 ppb	23:24:45
2	Mg 279.077 IEC†	137.2	131.5	5141.4 ug/L		5141.4 ppb	23:25:05
2	Na 589.592 Radial†	14498.2	14141.9	4960.2 ug/L		4960.2 ppb	23:24:45
2	Sr 421.552†	60431.8	58402.4	485.47 ug/L		485.47 ppb	23:24:45
2	Sc 361.383	822547.6	822547.6	103.37 %			23:26:06
2	Y 371.029	656649.7	656649.7	102.12 %			23:26:06
2	Ag 328.068†	95540.1	92242.2	476.18 ug/L		476.18 ppb	23:26:06
2	As 188.979†	1158.0	1148.0	490.39 ug/L		490.39 ppb	23:26:26
2	B 249.677†	21845.0	21075.3	500.68 ug/L		500.68 ppb	23:26:06
2	Ba 233.527†	60386.5	58412.9	491.56 ug/L		491.56 ppb	23:26:06
2	Be 313.107†	1342356.8	1302867.1	488.95 ug/L		488.95 ppb	23:26:06
2	Cd 226.502†	39188.8	38120.8	470.17 ug/L		470.17 ppb	23:26:26
2	Co 228.616†	23061.1	22388.3	471.94 ug/L		471.94 ppb	23:26:26
2	Cr 267.716†	40518.6	38501.5	476.58 ug/L		476.58 ppb	23:26:06
2	Cu 324.752†	169465.7	155626.3	484.21 ug/L		484.21 ppb	23:26:06
2	Mn 257.610†	435385.2	420650.8	489.10 ug/L		489.10 ppb	23:26:06
2	Mo 202.031†	6413.9	6183.9	479.76 ug/L		479.76 ppb	23:26:26
2	Ni 231.604†	18772.0	18068.9	482.67 ug/L		482.67 ppb	23:26:26

2	P 214.914†	1290.8	1005.4	456.34 ug/L	456.34 ppb	23:26:26
2	Pb 220.353†	3795.5	3687.8	478.36 ug/L	478.36 ppb	23:26:26
2	S 181.975 Axial†	3962.3	3771.6	4894.1 ug/L	4894.1 ppb	23:26:26
2	Sb 206.836†	1530.6	1436.8	522.91 ug/L	522.91 ppb	23:26:26
2	Se 196.026†	827.6	827.1	490.91 ug/L	490.91 ppb	23:26:26
2	Si 251.611†	208502.1	201044.1	6326.5 ug/L	6326.5 ppb	23:26:06
2	Sn 189.927†	2798.6	2671.8	494.24 ug/L	494.24 ppb	23:26:26
2	Ti 334.940†	305976.6	297611.5	493.49 ug/L	493.49 ppb	23:26:06
2	Tl 190.801†	1500.2	1472.7	478.05 ug/L	478.05 ppb	23:26:26
2	U 409.014†	11730.3	14921.1	477.78 ug/L	477.78 ppb	23:26:06
2	V 292.402†	62986.5	62706.5	492.89 ug/L	492.89 ppb	23:26:06
2	Zn 213.857†	50170.7	47674.5	471.67 ug/L	471.67 ppb	23:26:06
2	SiO2†	208608.0	201221.2	13486 ug/L	13486 ppb	23:27:04
3	Sc Radial	4126.3	4126.3	104 %		23:25:10
3	Y RADIAL	4213.7	4213.7	102.0 %		23:25:10
3	Al 396.153Radial†	4834.0	4799.6	4942.7 ug/L	4942.7 ppb	23:25:10
3	Ca 317.933Radial†	2617.5	2497.8	4850.4 ug/L	4850.4 ppb	23:25:30
3	Fe 238.204 Radial†	466.7	438.7	4826.2 ug/L	4826.2 ppb	23:25:30
3	K 766.490 Radial†	26623.2	22444.1	4858.6 ug/L	4858.6 ppb	23:25:10
3	Mg 279.077 IEC†	130.5	124.4	4861.1 ug/L	4861.1 ppb	23:25:30
3	Na 589.592 Radial†	14523.6	14097.5	4944.6 ug/L	4944.6 ppb	23:25:10
3	Sr 421.552†	60850.1	58519.1	486.44 ug/L	486.44 ppb	23:25:10
3	Sc 361.383	821527.6	821527.6	103.24 %		23:26:33
3	Y 371.029	656191.5	656191.5	102.05 %		23:26:33
3	Ag 328.068†	95630.6	92444.6	477.21 ug/L	477.21 ppb	23:26:33
3	As 188.979†	1152.6	1144.1	488.74 ug/L	488.74 ppb	23:26:53
3	B 249.677†	21943.5	21197.0	503.60 ug/L	503.60 ppb	23:26:33
3	Ba 233.527†	60391.6	58490.4	492.21 ug/L	492.21 ppb	23:26:33
3	Be 313.107†	1347057.9	1309033.2	491.27 ug/L	491.27 ppb	23:26:33
3	Cd 226.502†	38937.4	37924.4	467.75 ug/L	467.75 ppb	23:26:53
3	Co 228.616†	22818.9	22181.4	467.57 ug/L	467.57 ppb	23:26:53
3	Cr 267.716†	40482.3	38515.0	476.75 ug/L	476.75 ppb	23:26:33
3	Cu 324.752†	169866.4	156218.0	486.05 ug/L	486.05 ppb	23:26:33
3	Mn 257.610†	435459.9	421246.2	489.80 ug/L	489.80 ppb	23:26:33
3	Mo 202.031†	6365.3	6144.4	476.70 ug/L	476.70 ppb	23:26:53
3	Ni 231.604†	18620.0	17944.3	479.35 ug/L	479.35 ppb	23:26:53
3	P 214.914†	1269.4	986.2	445.49 ug/L	445.49 ppb	23:26:53
3	Pb 220.353†	3778.4	3675.8	476.80 ug/L	476.80 ppb	23:26:53
3	S 181.975 Axial†	3958.8	3772.9	4895.9 ug/L	4895.9 ppb	23:26:53
3	Sb 206.836†	1522.3	1430.5	520.59 ug/L	520.59 ppb	23:26:53
3	Se 196.026†	823.5	824.2	489.08 ug/L	489.08 ppb	23:26:53
3	Si 251.611†	209050.7	201825.9	6351.2 ug/L	6351.2 ppb	23:26:33
3	Sn 189.927†	2778.0	2655.1	491.16 ug/L	491.16 ppb	23:26:53
3	Ti 334.940†	306062.7	298062.5	494.25 ug/L	494.25 ppb	23:26:33
3	Tl 190.801†	1483.2	1458.0	473.34 ug/L	473.34 ppb	23:26:53
3	U 409.014†	11703.9	14909.5	477.42 ug/L	477.42 ppb	23:26:33
3	V 292.402†	62995.1	62790.6	493.50 ug/L	493.50 ppb	23:26:33
3	Zn 213.857†	50201.8	47764.9	472.60 ug/L	472.60 ppb	23:26:33
3	SiO2†	209289.0	202131.4	13547 ug/L	13547 ppb	23:27:09

Mean Data: 1202036428|950319|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	820021.9	103.05 %		0.443			0.43%
Sc Radial	4092.0	103 %		1.1			1.05%
Y 371.029	655228.4	101.90 %		0.323			0.32%
Y RADIAL	4218.1	102.1 %		0.41			0.40%
Ag 328.068†	92511.1	477.58 ug/L		1.612	477.58 ppb	1.612	0.34%
Al 396.153Radial†	4808.8	4952.1 ug/L		22.93	4952.1 ppb	22.93	0.46%
As 188.979†	1148.7	490.70 ug/L		2.134	490.70 ppb	2.134	0.43%
B 249.677†	21183.3	503.25 ug/L		2.416	503.25 ppb	2.416	0.48%
Ba 233.527†	58601.5	493.15 ug/L		2.211	493.15 ppb	2.211	0.45%
Be 313.107†	1310169.3	491.69 ug/L		2.972	491.69 ppb	2.972	0.60%
Ca 317.933Radial†	2526.0	4905.0 ug/L		68.19	4905.0 ppb	68.19	1.39%
Cd 226.502†	38143.4	470.44 ug/L		2.844	470.44 ppb	2.844	0.60%
Co 228.616†	22352.0	471.18 ug/L		3.288	471.18 ppb	3.288	0.70%
Cr 267.716†	38614.3	477.98 ug/L		2.278	477.98 ppb	2.278	0.48%
Cu 324.752†	155964.8	485.26 ug/L		0.949	485.26 ppb	0.949	0.20%
Fe 238.204 Radial†	446.1	4907.7 ug/L		100.87	4907.7 ppb	100.87	2.06%
K 766.490 Radial†	22552.2	4881.9 ug/L		36.30	4881.9 ppb	36.30	0.74%

Mg 279.077 IEC†	128.7	5032.4 ug/L	150.23	5032.4 ppb	150.23	2.99%
Mn 257.610†	421684.8	490.31 ug/L	1.530	490.31 ppb	1.530	0.31%
Mo 202.031†	6193.0	480.47 ug/L	4.169	480.47 ppb	4.169	0.87%
Na 589.592 Radial†	14175.6	4972.0 ug/L	34.82	4972.0 ppb	34.82	0.70%
Ni 231.604†	18076.2	482.87 ug/L	3.627	482.87 ppb	3.627	0.75%
P 214.914†	1000.0	453.21 ug/L	6.727	453.21 ppb	6.727	1.48%
Pb 220.353†	3703.2	480.34 ug/L	4.850	480.34 ppb	4.850	1.01%
S 181.975 Axial†	3772.9	4895.8 ug/L	1.68	4895.8 ppb	1.68	0.03%
Sb 206.836†	1435.3	522.46 ug/L	1.697	522.46 ppb	1.697	0.32%
Se 196.026†	824.9	489.74 ug/L	1.016	489.74 ppb	1.016	0.21%
Si 251.611†	201811.1	6350.7 ug/L	23.90	6350.7 ppb	23.90	0.38%
Sn 189.927†	2687.9	497.21 ug/L	7.975	497.21 ppb	7.975	1.60%
Sr 421.552†	58612.8	487.22 ug/L	2.242	487.22 ppb	2.242	0.46%
Ti 334.940†	298152.9	494.40 ug/L	0.989	494.40 ppb	0.989	0.20%
Tl 190.801†	1465.9	475.87 ug/L	2.376	475.87 ppb	2.376	0.50%
U 409.014†	14894.8	476.93 ug/L	1.173	476.93 ppb	1.173	0.25%
V 292.402†	62901.8	494.40 ug/L	2.118	494.40 ppb	2.118	0.43%
Zn 213.857†	47841.2	473.33 ug/L	2.118	473.33 ppb	2.118	0.45%
SiO2†	202373.4	13563 ug/L	86.5	13563 ppb	86.5	0.64%

Sequence No.: 67

Sample ID: 1202036429|950319|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 88

Date Collected: 2/17/2010 23:29:21

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202036429|950319|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3962.0	3962.0	99.7 %		23:31:34
1	Y RADIAL	4228.0	4228.0	102.3 %		23:31:14
1	Al 396.153Radial†	-133.9	7.5	7.7131 ug/L	7.7131 ppb	23:31:14
1	Ca 317.933Radial†	33.0	8.9	17.214 ug/L	17.214 ppb	23:31:34
1	Fe 238.204 Radial†	10.7	-0.3	-3.5852 ug/L	-3.5852 ppb	23:31:34
1	K 766.490 Radial†	3261.4	64.8	14.032 ug/L	14.032 ppb	23:31:14
1	Mg 279.077 IEC†	2.9	1.6	62.008 ug/L	62.008 ppb	23:31:34
1	Na 589.592 Radial†	-141.7	-38.5	-13.495 ug/L	-13.495 ppb	23:31:14
1	Sr 421.552†	164.3	53.2	0.4420 ug/L	0.4420 ppb	23:31:14
1	Sc 361.383	811056.7	811056.7	101.92 %		23:32:31
1	Y 371.029	655294.2	655294.2	101.91 %		23:32:31
1	Ag 328.068†	221.8	32.0	0.1620 ug/L	0.1620 ppb	23:32:31
1	As 188.979†	-26.1	2.0	0.8565 ug/L	0.8565 ppb	23:32:51
1	B 249.677†	-232.9	-286.5	-6.8362 ug/L	-6.8362 ppb	23:32:31
1	Ba 233.527†	69.6	61.9	0.5203 ug/L	0.5203 ppb	23:32:51
1	Be 313.107†	-3734.4	574.4	0.2166 ug/L	0.2166 ppb	23:32:31
1	Cd 226.502†	-208.9	3.7	0.0465 ug/L	0.0465 ppb	23:32:51
1	Co 228.616†	-64.1	15.6	0.3326 ug/L	0.3326 ppb	23:32:51
1	Cr 267.716†	126.1	-573.4	-7.0902 ug/L	-7.0902 ppb	23:32:51
1	Cu 324.752†	8570.8	90.1	0.2785 ug/L	0.2785 ppb	23:32:31
1	Mn 257.610†	1098.4	526.2	0.6086 ug/L	0.6086 ppb	23:32:51
1	Mo 202.031†	34.8	13.0	1.0111 ug/L	1.0111 ppb	23:32:51
1	Ni 231.604†	104.2	10.7	0.2850 ug/L	0.2850 ppb	23:32:51
1	P 214.914†	251.3	3.3	1.7036 ug/L	1.7036 ppb	23:32:51
1	Pb 220.353†	-52.8	-35.8	-4.6227 ug/L	-4.6227 ppb	23:32:51
1	S 181.975 Axial†	69.8	6.8	8.7851 ug/L	8.7851 ppb	23:32:51
1	Sb 206.836†	44.6	-0.3	-0.1250 ug/L	-0.1250 ppb	23:32:51
1	Se 196.026†	-22.3	4.6	2.6361 ug/L	2.6361 ppb	23:32:51
1	Si 251.611†	10702.1	9834.2	309.74 ug/L	309.74 ppb	23:32:31
1	Sn 189.927†	19.8	-16.2	-3.0012 ug/L	-3.0012 ppb	23:32:51
1	Ti 334.940†	-1213.8	411.5	0.6810 ug/L	0.6810 ppb	23:32:31
1	Tl 190.801†	-42.4	-20.2	-6.5164 ug/L	-6.5164 ppb	23:32:51
1	U 409.014†	-3548.8	91.0	2.9407 ug/L	2.9407 ppb	23:32:31
1	V 292.402†	-1753.2	51.7	0.4248 ug/L	0.4248 ppb	23:32:31
1	Zn 213.857†	921.8	42.6	0.4234 ug/L	0.4234 ppb	23:32:51
1	SiO2†	10629.2	9837.4	659.93 ug/L	659.93 ppb	23:33:47
2	Sc Radial	3945.4	3945.4	99.2 %		23:31:59
2	Y RADIAL	4210.1	4210.1	101.9 %		23:31:39
2	Al 396.153Radial†	-123.6	17.4	17.952 ug/L	17.952 ppb	23:31:39
2	Ca 317.933Radial†	40.4	16.4	31.862 ug/L	31.862 ppb	23:31:59
2	Fe 238.204 Radial†	12.3	1.4	15.121 ug/L	15.121 ppb	23:31:59
2	K 766.490 Radial†	3207.4	24.1	5.2269 ug/L	5.2269 ppb	23:31:39
2	Mg 279.077 IEC†	3.8	2.4	94.922 ug/L	94.922 ppb	23:31:59
2	Na 589.592 Radial†	-192.0	-89.8	-31.492 ug/L	-31.492 ppb	23:31:39
2	Sr 421.552†	130.0	19.4	0.1608 ug/L	0.1608 ppb	23:31:39
2	Sc 361.383	807303.2	807303.2	101.45 %		23:32:56
2	Y 371.029	651698.9	651698.9	101.35 %		23:32:56
2	Ag 328.068†	278.6	89.0	0.4582 ug/L	0.4582 ppb	23:32:56
2	As 188.979†	-20.6	7.4	3.1316 ug/L	3.1316 ppb	23:33:16
2	B 249.677†	-238.6	-293.2	-6.9977 ug/L	-6.9977 ppb	23:32:56
2	Ba 233.527†	81.2	73.6	0.6202 ug/L	0.6202 ppb	23:33:16
2	Be 313.107†	-4047.8	248.5	0.0943 ug/L	0.0943 ppb	23:32:56
2	Cd 226.502†	-220.1	-8.3	-0.1027 ug/L	-0.1027 ppb	23:33:16
2	Co 228.616†	-69.5	10.0	0.2127 ug/L	0.2127 ppb	23:33:16
2	Cr 267.716†	117.6	-581.3	-7.1874 ug/L	-7.1874 ppb	23:33:16
2	Cu 324.752†	8457.9	17.9	0.0526 ug/L	0.0526 ppb	23:32:56
2	Mn 257.610†	1122.5	555.1	0.6426 ug/L	0.6426 ppb	23:33:16
2	Mo 202.031†	22.0	0.6	0.0494 ug/L	0.0494 ppb	23:33:16
2	Ni 231.604†	105.4	12.3	0.3289 ug/L	0.3289 ppb	23:33:16

2	P 214.914†	252.4	5.4	2.9265 ug/L	2.9265 ppb	23:33:16
2	Pb 220.353†	-62.1	-45.2	-5.8451 ug/L	-5.8451 ppb	23:33:16
2	S 181.975 Axial†	67.4	4.8	6.1843 ug/L	6.1843 ppb	23:33:16
2	Sb 206.836†	33.8	-10.7	-3.8075 ug/L	-3.8075 ppb	23:33:16
2	Se 196.026†	-22.4	4.4	2.5626 ug/L	2.5626 ppb	23:33:16
2	Si 251.611†	10648.2	9829.9	309.62 ug/L	309.62 ppb	23:32:56
2	Sn 189.927†	16.1	-19.8	-3.6568 ug/L	-3.6568 ppb	23:33:16
2	Ti 334.940†	-1289.7	331.1	0.5451 ug/L	0.5451 ppb	23:32:56
2	Tl 190.801†	-33.8	-11.9	-3.8422 ug/L	-3.8422 ppb	23:33:16
2	U 409.014†	-3398.4	223.1	7.1815 ug/L	7.1815 ppb	23:32:56
2	V 292.402†	-1695.0	101.1	0.8007 ug/L	0.8007 ppb	23:32:56
2	Zn 213.857†	915.7	40.7	0.4022 ug/L	0.4022 ppb	23:33:16
2	SiO2†	10747.6	10002.6	671.04 ug/L	671.04 ppb	23:33:52
3	Sc Radial	3961.5	3961.5	99.6 %		23:32:24
3	Y RADIAL	4268.9	4268.9	103.3 %		23:32:04
3	Al 396.153Radial†	-139.3	2.1	2.1479 ug/L	2.1479 ppb	23:32:04
3	Ca 317.933Radial†	28.3	4.1	7.9749 ug/L	7.9749 ppb	23:32:24
3	Fe 238.204 Radial†	11.8	0.8	8.9475 ug/L	8.9475 ppb	23:32:24
3	K 766.490 Radial†	3318.1	122.1	26.475 ug/L	26.475 ppb	23:32:04
3	Mg 279.077 IEC†	0.9	-0.5	-18.580 ug/L	-18.580 ppb	23:32:24
3	Na 589.592 Radial†	-207.3	-104.3	-36.596 ug/L	-36.596 ppb	23:32:04
3	Sr 421.552†	121.6	10.4	0.0863 ug/L	0.0863 ppb	23:32:04
3	Sc 361.383	804402.7	804402.7	101.09 %		23:33:22
3	Y 371.029	649795.2	649795.2	101.06 %		23:33:22
3	Ag 328.068†	210.6	22.7	0.1152 ug/L	0.1152 ppb	23:33:22
3	As 188.979†	-28.1	-0.1	-0.0470 ug/L	-0.0470 ppb	23:33:42
3	B 249.677†	-161.9	-218.2	-5.2082 ug/L	-5.2082 ppb	23:33:22
3	Ba 233.527†	89.1	81.7	0.6859 ug/L	0.6859 ppb	23:33:42
3	Be 313.107†	-3918.7	361.9	0.1367 ug/L	0.1367 ppb	23:33:22
3	Cd 226.502†	-207.3	3.5	0.0438 ug/L	0.0438 ppb	23:33:42
3	Co 228.616†	-61.5	17.7	0.3736 ug/L	0.3736 ppb	23:33:42
3	Cr 267.716†	96.5	-601.7	-7.4404 ug/L	-7.4404 ppb	23:33:42
3	Cu 324.752†	8411.1	1.7	0.0033 ug/L	0.0033 ppb	23:33:22
3	Mn 257.610†	1091.3	528.1	0.6154 ug/L	0.6154 ppb	23:33:42
3	Mo 202.031†	16.0	-5.2	-0.4056 ug/L	-0.4056 ppb	23:33:42
3	Ni 231.604†	102.8	10.1	0.2693 ug/L	0.2693 ppb	23:33:42
3	P 214.914†	251.4	5.4	2.8903 ug/L	2.8903 ppb	23:33:42
3	Pb 220.353†	-57.5	-40.9	-5.2911 ug/L	-5.2911 ppb	23:33:42
3	S 181.975 Axial†	70.6	8.1	10.536 ug/L	10.536 ppb	23:33:42
3	Sb 206.836†	36.5	-7.9	-2.8317 ug/L	-2.8317 ppb	23:33:42
3	Se 196.026†	-20.6	6.1	3.5085 ug/L	3.5085 ppb	23:33:42
3	Si 251.611†	10584.6	9804.9	308.84 ug/L	308.84 ppb	23:33:22
3	Sn 189.927†	16.3	-19.6	-3.6216 ug/L	-3.6216 ppb	23:33:42
3	Ti 334.940†	-1292.4	323.8	0.5404 ug/L	0.5404 ppb	23:33:22
3	Tl 190.801†	-24.7	-3.0	-0.9752 ug/L	-0.9752 ppb	23:33:42
3	U 409.014†	-3467.6	142.5	4.5953 ug/L	4.5953 ppb	23:33:22
3	V 292.402†	-1790.0	1.1	0.0122 ug/L	0.0122 ppb	23:33:22
3	Zn 213.857†	901.4	29.8	0.2950 ug/L	0.2950 ppb	23:33:42
3	SiO2†	10768.0	10060.9	674.96 ug/L	674.96 ppb	23:33:57

Mean Data: 1202036429|950319|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	807587.6	101.49 %	0.419			0.41%
Sc Radial	3956.3	99.5 %	0.24			0.24%
Y 371.029	652262.8	101.44 %	0.434			0.43%
Y RADIAL	4235.7	102.5 %	0.73			0.71%
Ag 328.068†	47.9	0.2451 ug/L	0.18599	0.2451 ppb	0.18599	75.88%
Al 396.153Radial†	9.0	9.2709 ug/L	8.01631	9.2709 ppb	8.01631	86.47%
As 188.979†	3.1	1.3137 ug/L	1.63790	1.3137 ppb	1.63790	124.68%
B 249.677†	-266.0	-6.3474 ug/L	0.98988	-6.3474 ppb	0.98988	15.60%
Ba 233.527†	72.4	0.6088 ug/L	0.08335	0.6088 ppb	0.08335	13.69%
Be 313.107†	394.9	0.1492 ug/L	0.06211	0.1492 ppb	0.06211	41.63%
Ca 317.933Radial†	9.8	19.017 ug/L	12.0452	19.017 ppb	12.0452	63.34%
Cd 226.502†	-0.4	-0.0041 ug/L	0.08538	-0.0041 ppb	0.08538	>999.9%
Co 228.616†	14.4	0.3063 ug/L	0.08356	0.3063 ppb	0.08356	27.28%
Cr 267.716†	-585.5	-7.2393 ug/L	0.18079	-7.2393 ppb	0.18079	2.50%
Cu 324.752†	36.6	0.1115 ug/L	0.14671	0.1115 ppb	0.14671	131.62%
Fe 238.204 Radial†	0.6	6.8276 ug/L	9.53135	6.8276 ppb	9.53135	139.60%
K 766.490 Radial†	70.3	15.245 ug/L	10.6755	15.245 ppb	10.6755	70.03%

Mg 279.077 IEC†	1.2	46.117 ug/L	58.3960	46.117 ppb	58.3960	126.63%
Mn 257.610†	536.5	0.6222 ug/L	0.01802	0.6222 ppb	0.01802	2.90%
Mo 202.031†	2.8	0.2183 ug/L	0.72331	0.2183 ppb	0.72331	331.30%
Na 589.592 Radial†	-77.5	-27.194 ug/L	12.1352	-27.194 ppb	12.1352	44.62%
Ni 231.604†	11.0	0.2944 ug/L	0.03087	0.2944 ppb	0.03087	10.49%
P 214.914†	4.7	2.5068 ug/L	0.69580	2.5068 ppb	0.69580	27.76%
Pb 220.353†	-40.6	-5.2530 ug/L	0.61210	-5.2530 ppb	0.61210	11.65%
S 181.975 Axial†	6.6	8.5018 ug/L	2.18954	8.5018 ppb	2.18954	25.75%
Sb 206.836†	-6.3	-2.2547 ug/L	1.90788	-2.2547 ppb	1.90788	84.62%
Se 196.026†	5.0	2.9024 ug/L	0.52622	2.9024 ppb	0.52622	18.13%
Si 251.611†	9823.0	309.40 ug/L	0.492	309.40 ppb	0.492	0.16%
Sn 189.927†	-18.5	-3.4265 ug/L	0.36874	-3.4265 ppb	0.36874	10.76%
Sr 421.552†	27.6	0.2297 ug/L	0.18758	0.2297 ppb	0.18758	81.66%
Ti 334.940†	355.5	0.5889 ug/L	0.07985	0.5889 ppb	0.07985	13.56%
Tl 190.801†	-11.7	-3.7779 ug/L	2.77116	-3.7779 ppb	2.77116	73.35%
U 409.014†	152.2	4.9058 ug/L	2.13737	4.9058 ppb	2.13737	43.57%
V 292.402†	51.3	0.4126 ug/L	0.39438	0.4126 ppb	0.39438	95.59%
Zn 213.857†	37.7	0.3735 ug/L	0.06884	0.3735 ppb	0.06884	18.43%
SiO2†	9967.0	668.64 ug/L	7.797	668.64 ppb	7.797	1.17%

Sequence No.: 68

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/17/2010 23:36:09

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3933.3	3933.3	98.9 %		23:38:21
1	Y RADIAL	4210.7	4210.7	101.9 %		23:38:00
1	Al 396.153Radial†	4891.4	5086.2	5237.6 ug/L	5237.6 ppb	23:38:00
1	Ca 317.933Radial†	2733.8	2739.2	5319.1 ug/L	5319.1 ppb	23:38:21
1	Fe 238.204 Radial†	488.3	482.6	5309.2 ug/L	5309.2 ppb	23:38:21
1	K 766.490 Radial†	26689.5	23770.3	5143.5 ug/L	5143.5 ppb	23:38:00
1	Mg 279.077 IEC†	141.6	141.8	5541.1 ug/L	5541.1 ppb	23:38:21
1	Na 589.592 Radial†	29641.8	30066.2	10546 ug/L	10546 ppb	23:38:00
1	Sr 421.552†	63160.9	63732.6	529.78 ug/L	529.78 ppb	23:38:00
1	Sc 361.383	817218.6	817218.6	102.70 %		23:39:19
1	Y 371.029	653909.6	653909.6	101.70 %		23:39:19
1	Ag 328.068†	101141.9	98299.6	507.47 ug/L	507.47 ppb	23:39:19
1	As 188.979†	1222.9	1218.5	520.46 ug/L	520.46 ppb	23:39:40
1	B 249.677†	21776.7	21146.6	502.21 ug/L	502.21 ppb	23:39:19
1	Ba 233.527†	62517.4	60868.8	512.25 ug/L	512.25 ppb	23:39:19
1	Be 313.107†	1417868.3	1384863.4	519.71 ug/L	519.71 ppb	23:39:19
1	Cd 226.502†	41671.0	40785.0	503.01 ug/L	503.01 ppb	23:39:40
1	Co 228.616†	24586.3	24019.0	506.33 ug/L	506.33 ppb	23:39:40
1	Cr 267.716†	42528.9	40714.6	503.98 ug/L	503.98 ppb	23:39:19
1	Cu 324.752†	175219.0	162297.6	504.98 ug/L	504.98 ppb	23:39:19
1	Mn 257.610†	452822.6	440376.9	512.05 ug/L	512.05 ppb	23:39:19
1	Mo 202.031†	6790.4	6590.9	511.35 ug/L	511.35 ppb	23:39:40
1	Ni 231.604†	19683.9	19075.3	509.55 ug/L	509.55 ppb	23:39:40
1	P 214.914†	5091.4	4714.3	2483.1 ug/L	2483.1 ppb	23:39:40
1	Pb 220.353†	4020.2	3930.6	509.84 ug/L	509.84 ppb	23:39:40
1	S 181.975 Axial†	878.7	793.9	1029.4 ug/L	1029.4 ppb	23:39:40
1	Sb 206.836†	1515.0	1431.2	521.70 ug/L	521.70 ppb	23:39:40
1	Se 196.026†	900.3	903.1	535.95 ug/L	535.95 ppb	23:39:40
1	Si 251.611†	83706.7	80842.0	2540.1 ug/L	2540.1 ppb	23:39:19
1	Sn 189.927†	2813.2	2703.6	500.13 ug/L	500.13 ppb	23:39:40
1	Ti 334.940†	317368.8	310634.8	515.10 ug/L	515.10 ppb	23:39:19
1	Tl 190.801†	1603.3	1582.5	513.54 ug/L	513.54 ppb	23:39:40
1	U 409.014†	11846.1	15107.8	483.67 ug/L	483.67 ppb	23:39:19
1	V 292.402†	65690.2	65736.6	516.77 ug/L	516.77 ppb	23:39:19
1	Zn 213.857†	53339.3	51076.3	505.38 ug/L	505.38 ppb	23:39:19
1	SiO2†	83543.3	80757.6	5403.8 ug/L	5403.8 ppb	23:40:40
2	Sc Radial	3892.7	3892.7	97.9 %		23:38:46
2	Y RADIAL	4181.0	4181.0	101.2 %		23:38:26
2	Al 396.153Radial†	4911.9	5158.7	5312.7 ug/L	5312.7 ppb	23:38:26
2	Ca 317.933Radial†	2703.4	2736.8	5314.5 ug/L	5314.5 ppb	23:38:46
2	Fe 238.204 Radial†	479.3	478.5	5263.8 ug/L	5263.8 ppb	23:38:46
2	K 766.490 Radial†	26715.2	24077.6	5210.1 ug/L	5210.1 ppb	23:38:26
2	Mg 279.077 IEC†	137.6	139.2	5440.7 ug/L	5440.7 ppb	23:38:46
2	Na 589.592 Radial†	29530.2	30264.3	10615 ug/L	10615 ppb	23:38:26
2	Sr 421.552†	63047.7	64282.1	534.35 ug/L	534.35 ppb	23:38:26
2	Sc 361.383	816398.4	816398.4	102.59 %		23:39:47
2	Y 371.029	653020.1	653020.1	101.56 %		23:39:47
2	Ag 328.068†	101196.7	98451.9	508.24 ug/L	508.24 ppb	23:39:47
2	As 188.979†	1218.8	1215.6	519.27 ug/L	519.27 ppb	23:40:07
2	B 249.677†	21858.6	21247.8	504.64 ug/L	504.64 ppb	23:39:47
2	Ba 233.527†	62623.3	61033.2	513.63 ug/L	513.63 ppb	23:39:47
2	Be 313.107†	1416035.7	1384464.1	519.56 ug/L	519.56 ppb	23:39:47
2	Cd 226.502†	41446.2	40606.7	500.81 ug/L	500.81 ppb	23:40:07
2	Co 228.616†	24496.0	23955.0	504.98 ug/L	504.98 ppb	23:40:07
2	Cr 267.716†	42515.9	40743.6	504.34 ug/L	504.34 ppb	23:39:47
2	Cu 324.752†	175559.8	162801.1	506.55 ug/L	506.55 ppb	23:39:47
2	Mn 257.610†	452901.5	440896.7	512.66 ug/L	512.66 ppb	23:39:47
2	Mo 202.031†	6747.9	6556.1	508.65 ug/L	508.65 ppb	23:40:07
2	Ni 231.604†	19601.6	19014.3	507.92 ug/L	507.92 ppb	23:40:07

2	P 214.914†	5059.8	4688.6	2468.7 ug/L	2468.7 ppb	23:40:07
2	Pb 220.353†	4000.2	3915.0	507.84 ug/L	507.84 ppb	23:40:07
2	S 181.975 Axial†	884.5	800.4	1037.9 ug/L	1037.9 ppb	23:40:07
2	Sb 206.836†	1521.2	1438.7	524.27 ug/L	524.27 ppb	23:40:07
2	Se 196.026†	890.0	893.9	530.55 ug/L	530.55 ppb	23:40:07
2	Si 251.611†	83886.5	81099.2	2548.2 ug/L	2548.2 ppb	23:39:47
2	Sn 189.927†	2808.3	2701.6	499.77 ug/L	499.77 ppb	23:40:07
2	Ti 334.940†	318121.7	311679.1	516.84 ug/L	516.84 ppb	23:39:47
2	Tl 190.801†	1598.2	1579.1	512.47 ug/L	512.47 ppb	23:40:07
2	U 409.014†	11905.3	15177.1	485.90 ug/L	485.90 ppb	23:39:47
2	V 292.402†	65744.2	65853.5	517.64 ug/L	517.64 ppb	23:39:47
2	Zn 213.857†	53349.6	51138.6	506.02 ug/L	506.02 ppb	23:39:47
2	SiO2†	83278.0	80580.7	5392.0 ug/L	5392.0 ppb	23:40:45
3	Sc Radial	3918.2	3918.2	98.6 %		23:39:11
3	Y RADIAL	4236.0	4236.0	102.5 %		23:38:51
3	Al 396.153Radial†	4958.9	5173.7	5328.4 ug/L	5328.4 ppb	23:38:51
3	Ca 317.933Radial†	2726.4	2742.3	5325.1 ug/L	5325.1 ppb	23:39:11
3	Fe 238.204 Radial†	485.2	481.3	5294.8 ug/L	5294.8 ppb	23:39:11
3	K 766.490 Radial†	26937.8	24126.1	5220.6 ug/L	5220.6 ppb	23:38:51
3	Mg 279.077 IEC†	139.7	140.4	5489.3 ug/L	5489.3 ppb	23:39:11
3	Na 589.592 Radial†	29482.1	30019.5	10529 ug/L	10529 ppb	23:38:51
3	Sr 421.552†	63625.2	64449.5	535.74 ug/L	535.74 ppb	23:38:51
3	Sc 361.383	815688.1	815688.1	102.51 %		23:40:14
3	Y 371.029	653464.2	653464.2	101.63 %		23:40:14
3	Ag 328.068†	101099.6	98443.1	508.19 ug/L	508.19 ppb	23:40:14
3	As 188.979†	1207.2	1205.4	514.94 ug/L	514.94 ppb	23:40:34
3	B 249.677†	21742.9	21153.5	502.38 ug/L	502.38 ppb	23:40:14
3	Ba 233.527†	62325.3	60795.6	511.63 ug/L	511.63 ppb	23:40:14
3	Be 313.107†	1412569.2	1382284.4	518.74 ug/L	518.74 ppb	23:40:14
3	Cd 226.502†	41318.3	40517.1	499.70 ug/L	499.70 ppb	23:40:34
3	Co 228.616†	24423.5	23905.1	503.92 ug/L	503.92 ppb	23:40:34
3	Cr 267.716†	42290.4	40559.7	502.06 ug/L	502.06 ppb	23:40:14
3	Cu 324.752†	175154.6	162554.9	505.78 ug/L	505.78 ppb	23:40:14
3	Mn 257.610†	451384.2	439801.0	511.39 ug/L	511.39 ppb	23:40:14
3	Mo 202.031†	6733.9	6548.2	508.04 ug/L	508.04 ppb	23:40:34
3	Ni 231.604†	19540.0	18970.9	506.76 ug/L	506.76 ppb	23:40:34
3	P 214.914†	5025.4	4659.3	2452.8 ug/L	2452.8 ppb	23:40:34
3	Pb 220.353†	3967.5	3886.5	504.15 ug/L	504.15 ppb	23:40:34
3	S 181.975 Axial†	861.1	778.4	1009.3 ug/L	1009.3 ppb	23:40:34
3	Sb 206.836†	1513.8	1432.8	522.14 ug/L	522.14 ppb	23:40:34
3	Se 196.026†	898.0	902.5	535.58 ug/L	535.58 ppb	23:40:34
3	Si 251.611†	83484.7	80778.4	2538.1 ug/L	2538.1 ppb	23:40:14
3	Sn 189.927†	2790.9	2687.0	497.07 ug/L	497.07 ppb	23:40:34
3	Ti 334.940†	317364.0	311210.0	516.05 ug/L	516.05 ppb	23:40:14
3	Tl 190.801†	1571.0	1553.9	504.34 ug/L	504.34 ppb	23:40:34
3	U 409.014†	12179.5	15454.8	494.82 ug/L	494.82 ppb	23:40:14
3	V 292.402†	65662.7	65829.8	517.47 ug/L	517.47 ppb	23:40:14
3	Zn 213.857†	53190.7	51028.8	504.93 ug/L	504.93 ppb	23:40:14
3	SiO2†	83238.7	80613.0	5394.2 ug/L	5394.2 ppb	23:40:50

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	816435.0	102.60 %	0.096			0.09%
Sc Radial	3914.7	98.5 %	0.52			0.52%
Y 371.029	653464.6	101.63 %	0.069			0.07%
Y RADIAL	4209.2	101.9 %	0.67			0.65%
Ag 328.068†	98398.2	507.97 ug/L	0.432	507.97 ppb	0.432	0.09%
QC value within limits for Ag 328.068 Recovery = 101.59%						
Al 396.153Radial†	5139.5	5292.9 ug/L	48.51	5292.9 ppb	48.51	0.92%
QC value within limits for Al 396.153Radial Recovery = 105.86%						
As 188.979†	1213.2	518.22 ug/L	2.908	518.22 ppb	2.908	0.56%
QC value within limits for As 188.979 Recovery = 103.64%						
B 249.677†	21182.6	503.08 ug/L	1.353	503.08 ppb	1.353	0.27%
QC value within limits for B 249.677 Recovery = 100.62%						
Ba 233.527†	60899.2	512.50 ug/L	1.021	512.50 ppb	1.021	0.20%
QC value within limits for Ba 233.527 Recovery = 102.50%						
Be 313.107†	1383870.6	519.34 ug/L	0.519	519.34 ppb	0.519	0.10%
QC value within limits for Be 313.107 Recovery = 103.87%						
Ca 317.933Radial†	2739.4	5319.6 ug/L	5.30	5319.6 ppb	5.30	0.10%

QC value within limits for Ca 317.933 Radial Recovery = 106.39%							
Cd	226.502†	40636.3	501.17 ug/L	1.681	501.17 ppb	1.681	0.34%
QC value within limits for Cd 226.502 Recovery = 100.23%							
Co	228.616†	23959.7	505.08 ug/L	1.208	505.08 ppb	1.208	0.24%
QC value within limits for Co 228.616 Recovery = 101.02%							
Cr	267.716†	40672.6	503.46 ug/L	1.224	503.46 ppb	1.224	0.24%
QC value within limits for Cr 267.716 Recovery = 100.69%							
Cu	324.752†	162551.2	505.77 ug/L	0.782	505.77 ppb	0.782	0.15%
QC value within limits for Cu 324.752 Recovery = 101.15%							
Fe	238.204 Radial†	480.8	5289.2 ug/L	23.18	5289.2 ppb	23.18	0.44%
QC value within limits for Fe 238.204 Radial Recovery = 105.78%							
K	766.490 Radial†	23991.3	5191.4 ug/L	41.81	5191.4 ppb	41.81	0.81%
QC value within limits for K 766.490 Radial Recovery = 103.83%							
Mg	279.077 IEC†	140.5	5490.4 ug/L	50.20	5490.4 ppb	50.20	0.91%
QC value within limits for Mg 279.077 IEC Recovery = 109.81%							
Mn	257.610†	440358.2	512.03 ug/L	0.636	512.03 ppb	0.636	0.12%
QC value within limits for Mn 257.610 Recovery = 102.41%							
Mo	202.031†	6565.1	509.35 ug/L	1.761	509.35 ppb	1.761	0.35%
QC value within limits for Mo 202.031 Recovery = 101.87%							
Na	589.592 Radial†	30116.7	10563 ug/L	45.6	10563 ppb	45.6	0.43%
QC value within limits for Na 589.592 Radial Recovery = 105.63%							
Ni	231.604†	19020.1	508.08 ug/L	1.402	508.08 ppb	1.402	0.28%
QC value within limits for Ni 231.604 Recovery = 101.62%							
P	214.914†	4687.4	2468.2 ug/L	15.16	2468.2 ppb	15.16	0.61%
QC value within limits for P 214.914 Recovery = 98.73%							
Pb	220.353†	3910.7	507.28 ug/L	2.887	507.28 ppb	2.887	0.57%
QC value within limits for Pb 220.353 Recovery = 101.46%							
S	181.975 Axial†	790.9	1025.5 ug/L	14.70	1025.5 ppb	14.70	1.43%
QC value within limits for S 181.975 Axial Recovery = 102.55%							
Sb	206.836†	1434.3	522.70 ug/L	1.374	522.70 ppb	1.374	0.26%
QC value within limits for Sb 206.836 Recovery = 104.54%							
Se	196.026†	899.9	534.03 ug/L	3.017	534.03 ppb	3.017	0.56%
QC value within limits for Se 196.026 Recovery = 106.81%							
Si	251.611†	80906.5	2542.1 ug/L	5.35	2542.1 ppb	5.35	0.21%
QC value within limits for Si 251.611 Recovery = 101.68%							
Sn	189.927†	2697.4	498.99 ug/L	1.673	498.99 ppb	1.673	0.34%
QC value within limits for Sn 189.927 Recovery = 99.80%							
Sr	421.552†	64154.7	533.29 ug/L	3.118	533.29 ppb	3.118	0.58%
QC value within limits for Sr 421.552 Recovery = 106.66%							
Ti	334.940†	311174.6	516.00 ug/L	0.871	516.00 ppb	0.871	0.17%
QC value within limits for Ti 334.940 Recovery = 103.20%							
Tl	190.801†	1571.9	510.12 ug/L	5.030	510.12 ppb	5.030	0.99%
QC value within limits for Tl 190.801 Recovery = 102.02%							
U	409.014†	15246.6	488.13 ug/L	5.902	488.13 ppb	5.902	1.21%
QC value within limits for U 409.014 Recovery = 97.63%							
V	292.402†	65806.6	517.29 ug/L	0.463	517.29 ppb	0.463	0.09%
QC value within limits for V 292.402 Recovery = 103.46%							
Zn	213.857†	51081.3	505.44 ug/L	0.549	505.44 ppb	0.549	0.11%
QC value within limits for Zn 213.857 Recovery = 101.09%							
SiO2†		80650.5	5396.7 ug/L	6.27	5396.7 ppb	6.27	0.12%
QC value within limits for SiO2 Recovery = 100.92%							

All analyte(s) passed QC.

Sequence No.: 69

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/17/2010 23:43:00

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3972.3	3972.3	99.9 %		23:44:53
1	Y RADIAL	4148.5	4148.5	100.4 %		23:44:53
1	Al 396.153Radial†	-128.7	13.0	13.501 ug/L	13.501 ppb	23:44:53
1	Ca 317.933Radial†	27.5	3.2	6.2533 ug/L	6.2533 ppb	23:45:13
1	Fe 238.204 Radial†	7.3	-3.7	-40.507 ug/L	-40.507 ppb	23:45:13
1	K 766.490 Radial†	3136.4	-68.8	-14.895 ug/L	-14.895 ppb	23:44:53
1	Mg 279.077 IEC†	1.9	0.5	20.950 ug/L	20.950 ppb	23:45:13
1	Na 589.592 Radial†	-272.2	-168.8	-59.199 ug/L	-59.199 ppb	23:44:53
1	Sr 421.552†	87.8	-23.8	-0.1976 ug/L	-0.1976 ppb	23:44:53
1	Sc 361.383	806168.2	806168.2	101.31 %		23:46:10
1	Y 371.029	653580.8	653580.8	101.65 %		23:46:10
1	Ag 328.068†	357.5	167.3	0.8414 ug/L	0.8414 ppb	23:46:10
1	As 188.979†	-30.0	-2.0	-0.8401 ug/L	-0.8401 ppb	23:46:30
1	B 249.677†	-358.4	-411.8	-9.8196 ug/L	-9.8196 ppb	23:46:30
1	Ba 233.527†	18.1	11.4	0.0965 ug/L	0.0965 ppb	23:46:30
1	Be 313.107†	-3927.7	361.5	0.1358 ug/L	0.1358 ppb	23:46:10
1	Cd 226.502†	-197.3	13.9	0.1774 ug/L	0.1774 ppb	23:46:30
1	Co 228.616†	-66.3	13.0	0.2776 ug/L	0.2776 ppb	23:46:30
1	Cr 267.716†	124.1	-574.6	-7.1074 ug/L	-7.1074 ppb	23:46:10
1	Cu 324.752†	8358.6	-68.4	-0.2198 ug/L	-0.2198 ppb	23:46:10
1	Mn 257.610†	579.6	20.7	0.0192 ug/L	0.0192 ppb	23:46:30
1	Mo 202.031†	21.2	-0.2	-0.0187 ug/L	-0.0187 ppb	23:46:30
1	Ni 231.604†	97.3	4.5	0.1192 ug/L	0.1192 ppb	23:46:30
1	P 214.914†	237.9	-8.5	-4.6305 ug/L	-4.6305 ppb	23:46:30
1	Pb 220.353†	-67.4	-50.5	-6.5229 ug/L	-6.5229 ppb	23:46:30
1	S 181.975 Axial†	59.9	-2.5	-3.2710 ug/L	-3.2710 ppb	23:46:30
1	Sb 206.836†	30.2	-14.2	-5.0390 ug/L	-5.0390 ppb	23:46:30
1	Se 196.026†	-22.3	4.5	2.4548 ug/L	2.4548 ppb	23:46:30
1	Si 251.611†	609.7	-64.1	-2.0186 ug/L	-2.0186 ppb	23:46:30
1	Sn 189.927†	14.2	-21.7	-4.0062 ug/L	-4.0062 ppb	23:46:30
1	Ti 334.940†	-1495.5	126.1	0.2070 ug/L	0.2070 ppb	23:46:10
1	Tl 190.801†	-32.6	-10.8	-3.4918 ug/L	-3.4918 ppb	23:46:30
1	U 409.014†	-3336.6	279.4	8.9980 ug/L	8.9980 ppb	23:46:10
1	V 292.402†	-1687.5	106.2	0.8498 ug/L	0.8498 ppb	23:46:10
1	Zn 213.857†	833.0	-39.7	-0.3905 ug/L	-0.3905 ppb	23:46:30
1	SiO2†	596.3	-2.7	-0.1809 ug/L	-0.1809 ppb	23:47:26
2	Sc Radial	3734.8	3734.8	93.9 %		23:45:18
2	Y RADIAL	3887.3	3887.3	94.10 %		23:45:18
2	Al 396.153Radial†	-161.6	-30.1	-31.161 ug/L	-31.161 ppb	23:45:18
2	Ca 317.933Radial†	24.3	1.6	3.0802 ug/L	3.0802 ppb	23:45:38
2	Fe 238.204 Radial†	8.8	-1.7	-18.384 ug/L	-18.384 ppb	23:45:38
2	K 766.490 Radial†	3144.4	139.3	30.219 ug/L	30.219 ppb	23:45:18
2	Mg 279.077 IEC†	0.4	-1.0	-37.534 ug/L	-37.534 ppb	23:45:38
2	Na 589.592 Radial†	-297.2	-212.7	-74.605 ug/L	-74.605 ppb	23:45:18
2	Sr 421.552†	69.6	-37.6	-0.3125 ug/L	-0.3125 ppb	23:45:18
2	Sc 361.383	790804.2	790804.2	99.378 %		23:46:35
2	Y 371.029	639977.9	639977.9	99.530 %		23:46:35
2	Ag 328.068†	374.3	191.0	0.9775 ug/L	0.9775 ppb	23:46:35
2	As 188.979†	-36.0	-8.6	-3.6437 ug/L	-3.6437 ppb	23:46:56
2	B 249.677†	-368.5	-428.8	-10.228 ug/L	-10.228 ppb	23:46:56
2	Ba 233.527†	26.2	19.9	0.1662 ug/L	0.1662 ppb	23:46:56
2	Be 313.107†	-4009.9	203.4	0.0767 ug/L	0.0767 ppb	23:46:35
2	Cd 226.502†	-209.6	-2.3	-0.0271 ug/L	-0.0271 ppb	23:46:56
2	Co 228.616†	-69.0	9.0	0.1919 ug/L	0.1919 ppb	23:46:56
2	Cr 267.716†	108.3	-588.2	-7.2705 ug/L	-7.2705 ppb	23:46:35
2	Cu 324.752†	8246.9	-20.5	-0.0617 ug/L	-0.0617 ppb	23:46:35
2	Mn 257.610†	596.5	48.8	0.0564 ug/L	0.0564 ppb	23:46:56
2	Mo 202.031†	13.7	-7.3	-0.5690 ug/L	-0.5690 ppb	23:46:56
2	Ni 231.604†	109.8	18.9	0.5050 ug/L	0.5050 ppb	23:46:56

2	P 214.914†	234.4	-7.5	-4.0998 ug/L	-4.0998 ppb	23:46:56
2	Pb 220.353†	-67.6	-52.0	-6.7300 ug/L	-6.7300 ppb	23:46:56
2	S 181.975 Axial†	59.7	-1.6	-2.0944 ug/L	-2.0944 ppb	23:46:56
2	Sb 206.836†	33.3	-10.5	-3.7337 ug/L	-3.7337 ppb	23:46:56
2	Se 196.026†	-26.3	-0.0	-0.0744 ug/L	-0.0744 ppb	23:46:56
2	Si 251.611†	619.2	-42.9	-1.3429 ug/L	-1.3429 ppb	23:46:56
2	Sn 189.927†	25.5	-10.0	-1.8516 ug/L	-1.8516 ppb	23:46:56
2	Ti 334.940†	-1448.7	144.6	0.2483 ug/L	0.2483 ppb	23:46:35
2	Tl 190.801†	-35.9	-14.8	-4.7592 ug/L	-4.7592 ppb	23:46:56
2	U 409.014†	-3715.1	-165.5	-5.2982 ug/L	-5.2982 ppb	23:46:35
2	V 292.402†	-1797.0	-36.4	-0.2961 ug/L	-0.2961 ppb	23:46:35
2	Zn 213.857†	842.6	-14.0	-0.1401 ug/L	-0.1401 ppb	23:46:56
2	SiO2†	638.5	51.2	3.4484 ug/L	3.4484 ppb	23:47:31
3	Sc Radial	4142.2	4142.2	104 %		23:45:43
3	Y RADIAL	4323.5	4323.5	104.7 %		23:45:43
3	Al 396.153Radial†	-132.3	14.9	15.369 ug/L	15.369 ppb	23:45:43
3	Ca 317.933Radial†	23.2	-2.0	-3.8077 ug/L	-3.8077 ppb	23:46:03
3	Fe 238.204 Radial†	11.1	-0.4	-4.3619 ug/L	-4.3619 ppb	23:46:03
3	K 766.490 Radial†	3057.7	-273.1	-59.136 ug/L	-59.136 ppb	23:45:43
3	Mg 279.077 IEC†	-0.6	-1.9	-75.274 ug/L	-75.274 ppb	23:46:03
3	Na 589.592 Radial†	-383.4	-264.3	-92.708 ug/L	-92.708 ppb	23:45:43
3	Sr 421.552†	76.7	-38.0	-0.3159 ug/L	-0.3159 ppb	23:45:43
3	Sc 361.383	801312.3	801312.3	100.70 %		23:47:01
3	Y 371.029	649137.0	649137.0	100.95 %		23:47:01
3	Ag 328.068†	316.9	129.1	0.6603 ug/L	0.6603 ppb	23:47:01
3	As 188.979†	-39.1	-11.2	-4.7441 ug/L	-4.7441 ppb	23:47:21
3	B 249.677†	-370.0	-425.4	-10.150 ug/L	-10.150 ppb	23:47:21
3	Ba 233.527†	15.9	9.4	0.0796 ug/L	0.0796 ppb	23:47:21
3	Be 313.107†	-4027.8	238.6	0.0903 ug/L	0.0903 ppb	23:47:01
3	Cd 226.502†	-204.4	5.7	0.0709 ug/L	0.0709 ppb	23:47:21
3	Co 228.616†	-67.1	11.9	0.2534 ug/L	0.2534 ppb	23:47:21
3	Cr 267.716†	131.6	-566.4	-7.0035 ug/L	-7.0035 ppb	23:47:01
3	Cu 324.752†	8378.9	1.8	0.0040 ug/L	0.0040 ppb	23:47:01
3	Mn 257.610†	601.2	45.6	0.0557 ug/L	0.0557 ppb	23:47:21
3	Mo 202.031†	25.9	4.6	0.3585 ug/L	0.3585 ppb	23:47:21
3	Ni 231.604†	90.1	-2.1	-0.0562 ug/L	-0.0562 ppb	23:47:21
3	P 214.914†	221.8	-23.0	-12.637 ug/L	-12.637 ppb	23:47:21
3	Pb 220.353†	-58.2	-41.9	-5.4064 ug/L	-5.4064 ppb	23:47:21
3	S 181.975 Axial†	63.4	1.3	1.6544 ug/L	1.6544 ppb	23:47:21
3	Sb 206.836†	41.1	-3.1	-1.1454 ug/L	-1.1454 ppb	23:47:21
3	Se 196.026†	-19.7	6.9	3.9347 ug/L	3.9347 ppb	23:47:21
3	Si 251.611†	574.5	-95.4	-3.0088 ug/L	-3.0088 ppb	23:47:21
3	Sn 189.927†	19.6	-16.2	-3.0002 ug/L	-3.0002 ppb	23:47:21
3	Ti 334.940†	-1350.6	261.1	0.4401 ug/L	0.4401 ppb	23:47:01
3	Tl 190.801†	-34.2	-12.6	-4.0485 ug/L	-4.0485 ppb	23:47:21
3	U 409.014†	-3518.1	79.2	2.5602 ug/L	2.5602 ppb	23:47:01
3	V 292.402†	-1738.5	45.5	0.3641 ug/L	0.3641 ppb	23:47:01
3	Zn 213.857†	841.0	-26.7	-0.2654 ug/L	-0.2654 ppb	23:47:21
3	SiO2†	614.8	19.3	1.2851 ug/L	1.2851 ppb	23:47:36

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	799428.2	100.46 %	0.987			0.98%
Sc Radial	3949.8	99.3 %	5.15			5.18%
Y 371.029	647565.2	100.71 %	1.079			1.07%
Y RADIAL	4119.8	99.73 %	5.315			5.33%
Ag 328.068†	162.5	0.8264 ug/L	0.15912	0.8264 ppb	0.15912	19.25%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-0.7	-0.7637 ug/L	26.34148	-0.7637 ppb	26.34148	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-7.3	-3.0760 ug/L	2.01297	-3.0760 ppb	2.01297	65.44%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-422.0	-10.066 ug/L	0.2168	-10.066 ppb	0.2168	2.15%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	13.6	0.1141 ug/L	0.04589	0.1141 ppb	0.04589	40.22%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	267.8	0.1009 ug/L	0.03096	0.1009 ppb	0.03096	30.67%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.9	1.8419 ug/L	5.14350	1.8419 ppb	5.14350	279.25%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd	226.502†	5.8	0.0737 ug/L	0.10226	0.0737 ppb	0.10226 138.73%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co	228.616†	11.3	0.2410 ug/L	0.04417	0.2410 ppb	0.04417 18.33%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr	267.716†	-576.4	-7.1271 ug/L	0.13456	-7.1271 ppb	0.13456 1.89%
QC value less than the lower limit for Cr 267.716 Recovery = Not calculated						
Cu	324.752†	-29.0	-0.0925 ug/L	0.11503	-0.0925 ppb	0.11503 124.35%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe	238.204 Radial†	-1.9	-21.084 ug/L	18.2233	-21.084 ppb	18.2233 86.43%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K	766.490 Radial†	-67.5	-14.604 ug/L	44.6785	-14.604 ppb	44.6785 305.93%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg	279.077 IEC†	-0.8	-30.619 ug/L	48.4834	-30.619 ppb	48.4834 158.34%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn	257.610†	38.4	0.0438 ug/L	0.02124	0.0438 ppb	0.02124 48.55%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo	202.031†	-1.0	-0.0764 ug/L	0.46642	-0.0764 ppb	0.46642 610.52%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na	589.592 Radial†	-215.3	-75.504 ug/L	16.7726	-75.504 ppb	16.7726 22.21%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni	231.604†	7.1	0.1893 ug/L	0.28708	0.1893 ppb	0.28708 151.64%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	-13.0	-7.1225 ug/L	4.78326	-7.1225 ppb	4.78326 67.16%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb	220.353†	-48.1	-6.2198 ug/L	0.71196	-6.2198 ppb	0.71196 11.45%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S	181.975 Axial†	-1.0	-1.2370 ug/L	2.57223	-1.2370 ppb	2.57223 207.94%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb	206.836†	-9.3	-3.3061 ug/L	1.98171	-3.3061 ppb	1.98171 59.94%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	3.8	2.1050 ug/L	2.02732	2.1050 ppb	2.02732 96.31%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si	251.611†	-67.4	-2.1235 ug/L	0.83788	-2.1235 ppb	0.83788 39.46%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn	189.927†	-16.0	-2.9527 ug/L	1.07810	-2.9527 ppb	1.07810 36.51%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	421.552†	-33.1	-0.2753 ug/L	0.06735	-0.2753 ppb	0.06735 24.46%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti	334.940†	177.3	0.2984 ug/L	0.12438	0.2984 ppb	0.12438 41.68%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl	190.801†	-12.7	-4.0998 ug/L	0.63526	-4.0998 ppb	0.63526 15.49%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U	409.014†	64.4	2.0867 ug/L	7.15986	2.0867 ppb	7.15986 343.13%
QC value within limits for U 409.014 Recovery = Not calculated						
V	292.402†	38.4	0.3059 ug/L	0.57519	0.3059 ppb	0.57519 188.01%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn	213.857†	-26.8	-0.2653 ug/L	0.12517	-0.2653 ppb	0.12517 47.18%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†		22.6	1.5175 ug/L	1.82577	1.5175 ppb	1.82577 120.31%
QC value within limits for SiO2 Recovery = Not calculated						
QC Failed. Continue with analysis.						

=====
Analysis Begun

Start Time: 2/19/2010 16:32:14

Plasma On Time: 2/18/2010 07:51:33

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\021910.sif

Batch ID:

Results Data Set: 021910B

Results Library: C:\pe\Optima3\Results\Results.mdb
=====

Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 2/19/2010 10:58:48

IEC File: 011110.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc Radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

=====

Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 2/19/2010 16:32:16

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	3551.7	3551.7	100 %	16:34:28
1	Y RADIAL	3974.2	3974.2	99.39 %	16:34:08
1	Al 396.153Radial†	-119.5	-119.0	[0.00] ug/L	16:34:28

1	Ca 317.933Radial†	40.3	40.1	[0.00]	ug/L	16:34:28
1	Fe 238.204 Radial†	9.0	9.0	[0.00]	ug/L	16:34:28
1	K 766.490 Radial†	3092.9	3080.0	[0.00]	ug/L	16:34:08
1	Mg 279.077 IEC†	2.8	2.8	[0.00]	ug/L	16:34:28
1	Na 589.592 Radial†	3852.5	3836.4	[0.00]	ug/L	16:34:08
1	Sr 421.552†	485.0	483.0	[0.00]	ug/L	16:34:08
1	Sc 361.383	752302.7	752302.7	100.13	%	16:35:25
1	Y 371.029	588913.4	588913.4	100.08	%	16:35:25
1	Ag 328.068†	457.6	457.1	[0.00]	ug/L	16:35:25
1	As 188.979†	-18.1	-18.1	[0.00]	ug/L	16:35:45
1	B 249.677†	-458.4	-457.8	[0.00]	ug/L	16:35:45
1	Ba 233.527†	235.1	234.8	[0.00]	ug/L	16:35:45
1	Be 313.107†	-3855.0	-3850.0	[0.00]	ug/L	16:35:25
1	Cd 226.502†	-186.6	-186.4	[0.00]	ug/L	16:35:45
1	Co 228.616†	-62.5	-62.5	[0.00]	ug/L	16:35:45
1	Cr 267.716†	101.3	101.2	[0.00]	ug/L	16:35:45
1	Cu 324.752†	6707.4	6698.7	[0.00]	ug/L	16:35:25
1	Mn 257.610†	486.2	485.5	[0.00]	ug/L	16:35:45
1	Mo 202.031†	10.6	10.6	[0.00]	ug/L	16:35:45
1	Ni 231.604†	65.3	65.2	[0.00]	ug/L	16:35:45
1	P 214.914†	207.2	206.9	[0.00]	ug/L	16:35:45
1	Pb 220.353†	17.6	17.6	[0.00]	ug/L	16:35:45
1	S 181.975 Axial†	34.4	34.4	[0.00]	ug/L	16:35:45
1	Sb 206.836†	34.9	34.8	[0.00]	ug/L	16:35:45
1	Se 196.026†	-31.3	-31.3	[0.00]	ug/L	16:35:45
1	Si 251.611†	486.1	485.4	[0.00]	ug/L	16:35:45
1	Sn 189.927†	11.5	11.5	[0.00]	ug/L	16:35:45
1	Ti 334.940†	-1380.6	-1378.8	[0.00]	ug/L	16:35:25
1	Tl 190.801†	-32.3	-32.2	[0.00]	ug/L	16:35:45
1	U 409.014†	-2895.1	-2891.4	[0.00]	ug/L	16:35:25
1	V 292.402†	-1701.8	-1699.6	[0.00]	ug/L	16:35:25
1	Zn 213.857†	644.3	643.5	[0.00]	ug/L	16:35:45
1	SiO2†	506.3	505.7	[0.00]	ug/L	16:36:41
2	Sc Radial	3504.3	3504.3	99.1	%	16:34:53
2	Y RADIAL	4030.8	4030.8	100.8	%	16:34:33
2	Al 396.153Radial†	-110.4	-111.4	[0.00]	ug/L	16:34:53
2	Ca 317.933Radial†	25.1	25.4	[0.00]	ug/L	16:34:53
2	Fe 238.204 Radial†	8.4	8.5	[0.00]	ug/L	16:34:53
2	K 766.490 Radial†	3201.3	3231.1	[0.00]	ug/L	16:34:33
2	Mg 279.077 IEC†	3.1	3.2	[0.00]	ug/L	16:34:53
2	Na 589.592 Radial†	3836.3	3871.9	[0.00]	ug/L	16:34:33
2	Sr 421.552†	943.2	952.0	[0.00]	ug/L	16:34:33
2	Sc 361.383	746047.7	746047.7	99.297	%	16:35:50
2	Y 371.029	584336.5	584336.5	99.299	%	16:35:50
2	Ag 328.068†	231.7	233.3	[0.00]	ug/L	16:35:50
2	As 188.979†	-22.7	-22.8	[0.00]	ug/L	16:36:10
2	B 249.677†	-425.1	-428.1	[0.00]	ug/L	16:36:10
2	Ba 233.527†	84.0	84.6	[0.00]	ug/L	16:36:10
2	Be 313.107†	-4584.9	-4617.3	[0.00]	ug/L	16:35:50
2	Cd 226.502†	-208.1	-209.6	[0.00]	ug/L	16:36:10
2	Co 228.616†	-66.0	-66.4	[0.00]	ug/L	16:36:10
2	Cr 267.716†	64.3	64.8	[0.00]	ug/L	16:36:10
2	Cu 324.752†	6238.2	6282.3	[0.00]	ug/L	16:35:50
2	Mn 257.610†	453.7	456.9	[0.00]	ug/L	16:36:10
2	Mo 202.031†	9.0	9.1	[0.00]	ug/L	16:36:10
2	Ni 231.604†	86.6	87.2	[0.00]	ug/L	16:36:10
2	P 214.914†	210.2	211.7	[0.00]	ug/L	16:36:10
2	Pb 220.353†	29.1	29.3	[0.00]	ug/L	16:36:10
2	S 181.975 Axial†	38.7	39.0	[0.00]	ug/L	16:36:10
2	Sb 206.836†	36.5	36.7	[0.00]	ug/L	16:36:10
2	Se 196.026†	-30.2	-30.4	[0.00]	ug/L	16:36:10
2	Si 251.611†	496.9	500.4	[0.00]	ug/L	16:36:10
2	Sn 189.927†	19.0	19.1	[0.00]	ug/L	16:36:10
2	Ti 334.940†	-1503.1	-1513.7	[0.00]	ug/L	16:35:50
2	Tl 190.801†	-26.4	-26.6	[0.00]	ug/L	16:36:10
2	U 409.014†	-3153.2	-3175.6	[0.00]	ug/L	16:35:50
2	V 292.402†	-1649.1	-1660.8	[0.00]	ug/L	16:35:50
2	Zn 213.857†	649.0	653.6	[0.00]	ug/L	16:36:10
2	SiO2†	527.4	531.2	[0.00]	ug/L	16:36:46
3	Sc Radial	3554.6	3554.6	101	%	16:35:18
3	Y RADIAL	3991.0	3991.0	99.81	%	16:34:58

3	Al 396.153Radial†	-109.9	-109.4	[0.00]	ug/L	16:35:18
3	Ca 317.933Radial†	28.4	28.3	[0.00]	ug/L	16:35:18
3	Fe 238.204 Radial†	10.0	10.0	[0.00]	ug/L	16:35:18
3	K 766.490 Radial†	3137.0	3121.4	[0.00]	ug/L	16:34:58
3	Mg 279.077 IEC†	2.0	2.0	[0.00]	ug/L	16:35:18
3	Na 589.592 Radial†	4395.7	4373.7	[0.00]	ug/L	16:34:58
3	Sr 421.552†	2903.9	2889.3	[0.00]	ug/L	16:34:58
3	Sc 361.383	755632.3	755632.3	100.57	%	16:36:15
3	Y 371.029	592139.1	592139.1	100.62	%	16:36:15
3	Ag 328.068†	290.4	288.7	[0.00]	ug/L	16:36:15
3	As 188.979†	-21.2	-21.1	[0.00]	ug/L	16:36:36
3	B 249.677†	-442.6	-440.0	[0.00]	ug/L	16:36:36
3	Ba 233.527†	116.4	115.7	[0.00]	ug/L	16:36:36
3	Be 313.107†	-4626.5	-4600.1	[0.00]	ug/L	16:36:15
3	Cd 226.502†	-190.6	-189.5	[0.00]	ug/L	16:36:36
3	Co 228.616†	-82.5	-82.0	[0.00]	ug/L	16:36:36
3	Cr 267.716†	67.8	67.4	[0.00]	ug/L	16:36:36
3	Cu 324.752†	6412.1	6375.6	[0.00]	ug/L	16:36:15
3	Mn 257.610†	474.2	471.5	[0.00]	ug/L	16:36:36
3	Mo 202.031†	10.3	10.3	[0.00]	ug/L	16:36:36
3	Ni 231.604†	85.5	85.0	[0.00]	ug/L	16:36:36
3	P 214.914†	216.0	214.7	[0.00]	ug/L	16:36:36
3	Pb 220.353†	15.8	15.7	[0.00]	ug/L	16:36:36
3	S 181.975 Axial†	39.0	38.8	[0.00]	ug/L	16:36:36
3	Sb 206.836†	37.8	37.5	[0.00]	ug/L	16:36:36
3	Se 196.026†	-26.4	-26.2	[0.00]	ug/L	16:36:36
3	Si 251.611†	506.5	503.7	[0.00]	ug/L	16:36:36
3	Sn 189.927†	15.5	15.4	[0.00]	ug/L	16:36:36
3	Ti 334.940†	-1556.2	-1547.3	[0.00]	ug/L	16:36:15
3	Tl 190.801†	-39.0	-38.8	[0.00]	ug/L	16:36:36
3	U 409.014†	-3140.3	-3122.4	[0.00]	ug/L	16:36:15
3	V 292.402†	-1727.6	-1717.7	[0.00]	ug/L	16:36:15
3	Zn 213.857†	637.9	634.3	[0.00]	ug/L	16:36:36
3	SiO2†	442.3	439.8	[0.00]	ug/L	16:36:51

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	751327.5	4866.15	0.65%	100.00	%
Sc Radial	3536.9	28.26	0.80%	100	%
Y 371.029	588463.0	3920.75	0.67%	100.00	%
Y RADIAL	3998.7	29.06	0.73%	100.0	%
Ag 328.068†	326.4	116.53	35.71%	[0.00]	ug/L
Al 396.153Radial†	-113.2	5.07	4.48%	[0.00]	ug/L
As 188.979†	-20.7	2.40	11.58%	[0.00]	ug/L
B 249.677†	-442.0	14.92	3.38%	[0.00]	ug/L
Ba 233.527†	145.0	79.28	54.66%	[0.00]	ug/L
Be 313.107†	-4355.8	438.14	10.06%	[0.00]	ug/L
Ca 317.933Radial†	31.2	7.81	25.01%	[0.00]	ug/L
Cd 226.502†	-195.1	12.58	6.45%	[0.00]	ug/L
Co 228.616†	-70.3	10.35	14.72%	[0.00]	ug/L
Cr 267.716†	77.8	20.31	26.10%	[0.00]	ug/L
Cu 324.752†	6452.2	218.50	3.39%	[0.00]	ug/L
Fe 238.204 Radial†	9.2	0.74	8.14%	[0.00]	ug/L
K 766.490 Radial†	3144.2	78.04	2.48%	[0.00]	ug/L
Mg 279.077 IEC†	2.7	0.57	21.42%	[0.00]	ug/L
Mn 257.610†	471.3	14.34	3.04%	[0.00]	ug/L
Mo 202.031†	10.0	0.77	7.73%	[0.00]	ug/L
Na 589.592 Radial†	4027.3	300.47	7.46%	[0.00]	ug/L
Ni 231.604†	79.1	12.08	15.27%	[0.00]	ug/L
P 214.914†	211.1	3.95	1.87%	[0.00]	ug/L
Pb 220.353†	20.9	7.35	35.20%	[0.00]	ug/L
S 181.975 Axial†	37.4	2.62	7.00%	[0.00]	ug/L
Sb 206.836†	36.4	1.39	3.83%	[0.00]	ug/L
Se 196.026†	-29.3	2.71	9.25%	[0.00]	ug/L
Si 251.611†	496.5	9.72	1.96%	[0.00]	ug/L
Sn 189.927†	15.3	3.81	24.83%	[0.00]	ug/L
Sr 421.552†	1441.4	1275.66	88.50%	[0.00]	ug/L
Ti 334.940†	-1480.0	89.19	6.03%	[0.00]	ug/L
Tl 190.801†	-32.6	6.11	18.76%	[0.00]	ug/L

U 409.014†	-3063.1	151.08	4.93%	[0.00]	ug/L
V 292.402†	-1692.7	29.09	1.72%	[0.00]	ug/L
Zn 213.857†	643.8	9.68	1.50%	[0.00]	ug/L
SiO2†	492.2	47.14	9.58%	[0.00]	ug/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 2/19/2010 16:39:02
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	3642.9	3642.9	103 %	16:41:15
1	Y RADIAL	4019.8	4019.8	100.5 %	16:41:15
1	K 766.490 Radial†	8439.0	5049.2	[1000] ug/L	16:40:55
1	Sr 421.552†	13706.7	11866.4	[100] ug/L	16:41:15
1	Sc 361.383	737867.7	737867.7	98.209 %	16:42:12
1	Y 371.029	577908.0	577908.0	98.206 %	16:42:12
1	Ag 328.068†	18772.6	18788.7	[100] ug/L	16:42:12
1	As 188.979†	187.3	211.4	[100] ug/L	16:42:32
1	B 249.677†	3284.8	3786.6	[100] ug/L	16:42:12
1	Ba 233.527†	11486.3	11550.8	[100] ug/L	16:42:12
1	Be 313.107†	239924.1	248656.5	[100] ug/L	16:42:12
1	Cd 226.502†	7111.7	7436.6	[100] ug/L	16:42:12
1	Co 228.616†	4360.9	4510.7	[100] ug/L	16:42:32
1	Cr 267.716†	7454.1	7512.2	[100] ug/L	16:42:12
1	Cu 324.752†	37025.7	31248.9	[100] ug/L	16:42:12
1	Mn 257.610†	83068.9	84112.9	[100] ug/L	16:42:12
1	Mo 202.031†	1199.6	1211.6	[100] ug/L	16:42:32
1	Ni 231.604†	3472.7	3456.9	[100] ug/L	16:42:32
1	P 214.914†	1015.9	823.3	[500] ug/L	16:42:32
1	Pb 220.353†	715.8	708.0	[100] ug/L	16:42:32
1	S 181.975 Axial†	180.5	146.4	[200] ug/L	16:42:32
1	Sb 206.836†	307.0	276.2	[100] ug/L	16:42:32
1	Se 196.026†	131.1	162.8	[100] ug/L	16:42:32
1	Si 251.611†	14711.6	14483.4	[500] ug/L	16:42:12
1	Sn 189.927†	492.0	485.7	[100] ug/L	16:42:32
1	Ti 334.940†	56112.4	58615.9	[100] ug/L	16:42:12
1	Tl 190.801†	262.2	299.5	[100] ug/L	16:42:32
1	U 409.014†	-143.4	2917.1	[100] ug/L	16:42:12
1	V 292.402†	9907.3	11780.7	[100] ug/L	16:42:12
1	Zn 213.857†	9863.2	9399.3	[100] ug/L	16:42:12
1	SiO2†	15030.6	14812.6	[1069.5] ug/L	16:43:28
2	Sc Radial	3631.9	3631.9	103 %	16:41:40
2	Y RADIAL	4004.9	4004.9	100.2 %	16:41:40
2	K 766.490 Radial†	8227.7	4868.3	[1000] ug/L	16:41:20
2	Sr 421.552†	13241.8	11453.8	[100] ug/L	16:41:40
2	Sc 361.383	741944.8	741944.8	98.751 %	16:42:37
2	Y 371.029	581516.6	581516.6	98.820 %	16:42:37
2	Ag 328.068†	18901.6	18814.2	[100] ug/L	16:42:37
2	As 188.979†	184.1	207.1	[100] ug/L	16:42:57
2	B 249.677†	3309.8	3793.7	[100] ug/L	16:42:37
2	Ba 233.527†	11661.6	11664.0	[100] ug/L	16:42:37
2	Be 313.107†	241620.1	249031.5	[100] ug/L	16:42:37
2	Cd 226.502†	7202.1	7488.3	[100] ug/L	16:42:37
2	Co 228.616†	4314.2	4439.1	[100] ug/L	16:42:57
2	Cr 267.716†	7551.5	7569.1	[100] ug/L	16:42:37
2	Cu 324.752†	37127.5	31144.8	[100] ug/L	16:42:37
2	Mn 257.610†	83343.9	83926.6	[100] ug/L	16:42:37
2	Mo 202.031†	1212.0	1217.3	[100] ug/L	16:42:57
2	Ni 231.604†	3435.6	3399.9	[100] ug/L	16:42:57
2	P 214.914†	1005.1	806.7	[500] ug/L	16:42:57
2	Pb 220.353†	714.0	702.2	[100] ug/L	16:42:57
2	S 181.975 Axial†	171.6	136.3	[200] ug/L	16:42:57
2	Sb 206.836†	293.1	260.5	[100] ug/L	16:42:57
2	Se 196.026†	114.2	145.0	[100] ug/L	16:42:57
2	Si 251.611†	14797.2	14487.8	[500] ug/L	16:42:37
2	Sn 189.927†	487.5	478.3	[100] ug/L	16:42:57
2	Ti 334.940†	56462.8	58656.8	[100] ug/L	16:42:37
2	Tl 190.801†	264.8	300.7	[100] ug/L	16:42:57
2	U 409.014†	-282.5	2777.0	[100] ug/L	16:42:37

2	V 292.402†	9986.9	11805.9	[100] ug/L	16:42:37
2	Zn 213.857†	9934.9	9416.8	[100] ug/L	16:42:37
2	SiO2†	14885.4	14581.4	[1069.5] ug/L	16:43:33
3	Sc Radial	3616.1	3616.1	102 %	16:42:05
3	Y RADIAL	3987.1	3987.1	99.71 %	16:42:05
3	K 766.490 Radial†	8272.2	4946.7	[1000] ug/L	16:41:45
3	Sr 421.552†	13663.1	11922.3	[100] ug/L	16:42:05
3	Sc 361.383	754008.0	754008.0	100.36 %	16:43:03
3	Y 371.029	590635.0	590635.0	100.37 %	16:43:03
3	Ag 328.068†	19072.5	18678.3	[100] ug/L	16:43:03
3	As 188.979†	178.9	199.0	[100] ug/L	16:43:23
3	B 249.677†	3397.2	3827.1	[100] ug/L	16:43:03
3	Ba 233.527†	11690.9	11504.3	[100] ug/L	16:43:03
3	Be 313.107†	245333.0	248816.7	[100] ug/L	16:43:03
3	Cd 226.502†	7190.4	7360.0	[100] ug/L	16:43:03
3	Co 228.616†	4308.7	4363.7	[100] ug/L	16:43:23
3	Cr 267.716†	7617.1	7512.2	[100] ug/L	16:43:03
3	Cu 324.752†	37652.3	31066.2	[100] ug/L	16:43:03
3	Mn 257.610†	84470.5	83698.9	[100] ug/L	16:43:03
3	Mo 202.031†	1197.1	1182.9	[100] ug/L	16:43:23
3	Ni 231.604†	3455.2	3363.8	[100] ug/L	16:43:23
3	P 214.914†	998.5	783.9	[500] ug/L	16:43:23
3	Pb 220.353†	700.3	677.0	[100] ug/L	16:43:23
3	S 181.975 Axial†	169.6	131.6	[200] ug/L	16:43:23
3	Sb 206.836†	294.3	256.8	[100] ug/L	16:43:23
3	Se 196.026†	118.6	147.5	[100] ug/L	16:43:23
3	Si 251.611†	15033.8	14483.9	[500] ug/L	16:43:03
3	Sn 189.927†	492.8	475.7	[100] ug/L	16:43:23
3	Ti 334.940†	57375.1	58651.1	[100] ug/L	16:43:03
3	Tl 190.801†	261.8	293.4	[100] ug/L	16:43:23
3	U 409.014†	-35.3	3028.0	[100] ug/L	16:43:03
3	V 292.402†	10181.2	11837.7	[100] ug/L	16:43:03
3	Zn 213.857†	10054.0	9374.5	[100] ug/L	16:43:03
3	SiO2†	15054.9	14509.2	[1069.5] ug/L	16:43:38

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	744606.8	8392.95	1.13%	99.105 %
Sc Radial	3630.3	13.45	0.37%	103 %
Y 371.029	583353.2	6559.25	1.12%	99.132 %
Y RADIAL	4003.9	16.35	0.41%	100.1 %
Ag 328.068†	18760.4	72.21	0.38%	[100] ug/L
As 188.979†	205.8	6.30	3.06%	[100] ug/L
B 249.677†	3802.5	21.61	0.57%	[100] ug/L
Ba 233.527†	11573.0	82.15	0.71%	[100] ug/L
Be 313.107†	248834.9	188.14	0.08%	[100] ug/L
Cd 226.502†	7428.3	64.53	0.87%	[100] ug/L
Co 228.616†	4437.9	73.52	1.66%	[100] ug/L
Cr 267.716†	7531.2	32.88	0.44%	[100] ug/L
Cu 324.752†	31153.3	91.63	0.29%	[100] ug/L
K 766.490 Radial†	4954.7	90.76	1.83%	[1000] ug/L
Mn 257.610†	83912.8	207.35	0.25%	[100] ug/L
Mo 202.031†	1203.9	18.44	1.53%	[100] ug/L
Ni 231.604†	3406.9	46.97	1.38%	[100] ug/L
P 214.914†	804.6	19.79	2.46%	[500] ug/L
Pb 220.353†	695.7	16.50	2.37%	[100] ug/L
S 181.975 Axial†	138.1	7.53	5.45%	[200] ug/L
Sb 206.836†	264.5	10.31	3.90%	[100] ug/L
Se 196.026†	151.8	9.65	6.36%	[100] ug/L
Si 251.611†	14485.0	2.41	0.02%	[500] ug/L
Sn 189.927†	479.9	5.19	1.08%	[100] ug/L
Sr 421.552†	11747.5	255.88	2.18%	[100] ug/L
Ti 334.940†	58641.2	22.15	0.04%	[100] ug/L
Tl 190.801†	297.9	3.89	1.31%	[100] ug/L
U 409.014†	2907.3	125.76	4.33%	[100] ug/L
V 292.402†	11808.1	28.57	0.24%	[100] ug/L
Zn 213.857†	9396.9	21.27	0.23%	[100] ug/L
SiO2†	14634.4	158.51	1.08%	[1069.5] ug/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 2/19/2010 16:45:49
 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	3538.9	3538.9	100 %	16:48:01
1	Y RADIAL	3960.3	3960.3	99.04 %	16:47:41
1	Al 396.153Radial†	4917.1	5027.5	[5000] ug/L	16:47:41
1	Ca 317.933Radial†	2299.9	2267.3	[5000] ug/L	16:48:01
1	K 766.490 Radial†	29059.9	25898.9	[5000] ug/L	16:47:41
1	Mg 279.077 IEC†	100.9	98.2	[5000] ug/L	16:48:01
1	Sr 421.552†	65263.1	63783.8	[500] ug/L	16:47:41
1	Sc 361.383	757659.5	757659.5	100.84 %	16:48:58
1	Y 371.029	587082.9	587082.9	99.765 %	16:48:58
1	Ag 328.068†	95384.5	94261.0	[500] ug/L	16:49:04
1	As 188.979†	1039.9	1051.9	[500] ug/L	16:49:24
1	B 249.677†	19098.8	19381.2	[500] ug/L	16:49:04
1	Ba 233.527†	57828.7	57200.3	[500] ug/L	16:49:04
1	Be 313.107†	1246702.0	1240638.8	[500] ug/L	16:48:58
1	Cd 226.502†	37116.6	37001.6	[500] ug/L	16:49:04
1	Co 228.616†	22473.9	22356.4	[500] ug/L	16:49:04
1	Cr 267.716†	37719.4	37326.4	[500] ug/L	16:49:04
1	Cu 324.752†	162655.3	154843.8	[500] ug/L	16:49:04
1	Mn 257.610†	415102.1	411161.7	[500] ug/L	16:48:58
1	Mo 202.031†	6035.0	5974.6	[500] ug/L	16:49:24
1	Ni 231.604†	17392.5	17168.0	[500] ug/L	16:49:04
1	P 214.914†	4257.1	4010.4	[2500] ug/L	16:49:24
1	Pb 220.353†	3593.6	3542.7	[500] ug/L	16:49:24
1	S 181.975 Axial†	725.4	682.0	[1000] ug/L	16:49:24
1	Sb 206.836†	1363.5	1315.7	[500] ug/L	16:49:24
1	Se 196.026†	712.0	735.3	[500] ug/L	16:49:24
1	Si 251.611†	74465.1	73346.3	[2500] ug/L	16:49:04
1	Sn 189.927†	2470.6	2434.6	[500] ug/L	16:49:24
1	Ti 334.940†	289522.7	288583.0	[500] ug/L	16:49:04
1	Tl 190.801†	1440.5	1461.0	[500] ug/L	16:49:24
1	U 409.014†	10496.7	13472.1	[500] ug/L	16:49:04
1	V 292.402†	58145.1	59351.9	[500] ug/L	16:49:04
1	Zn 213.857†	47794.2	46751.0	[500] ug/L	16:49:04
1	SiO2†	74071.8	72960.6	[5347.5] ug/L	16:50:31
2	Sc Radial	3561.2	3561.2	101 %	16:48:26
2	Y RADIAL	3923.4	3923.4	98.12 %	16:48:06
2	Al 396.153Radial†	4897.9	4977.7	[5000] ug/L	16:48:06
2	Ca 317.933Radial†	2296.0	2249.1	[5000] ug/L	16:48:26
2	K 766.490 Radial†	28869.7	25528.1	[5000] ug/L	16:48:06
2	Mg 279.077 IEC†	99.7	96.4	[5000] ug/L	16:48:26
2	Sr 421.552†	63711.6	61834.4	[500] ug/L	16:48:06
2	Sc 361.383	768279.2	768279.2	102.26 %	16:49:29
2	Y 371.029	594704.3	594704.3	101.06 %	16:49:29
2	Ag 328.068†	94705.5	92289.5	[500] ug/L	16:49:35
2	As 188.979†	1025.3	1023.4	[500] ug/L	16:49:55
2	B 249.677†	18959.1	18982.8	[500] ug/L	16:49:35
2	Ba 233.527†	57286.1	55877.1	[500] ug/L	16:49:35
2	Be 313.107†	1263619.9	1240094.7	[500] ug/L	16:49:29
2	Cd 226.502†	36765.7	36149.6	[500] ug/L	16:49:35
2	Co 228.616†	22305.2	21883.3	[500] ug/L	16:49:35
2	Cr 267.716†	37322.0	36420.7	[500] ug/L	16:49:35
2	Cu 324.752†	161053.4	151047.6	[500] ug/L	16:49:35
2	Mn 257.610†	420436.9	410688.9	[500] ug/L	16:49:29
2	Mo 202.031†	6009.3	5866.8	[500] ug/L	16:49:55
2	Ni 231.604†	17266.5	16806.4	[500] ug/L	16:49:35
2	P 214.914†	4213.9	3909.8	[2500] ug/L	16:49:55
2	Pb 220.353†	3541.0	3442.0	[500] ug/L	16:49:55
2	S 181.975 Axial†	718.3	665.0	[1000] ug/L	16:49:55
2	Sb 206.836†	1364.1	1297.6	[500] ug/L	16:49:55

2	Se 196.026†	699.9	713.7	[500]	ug/L	16:49:55
2	Si 251.611†	73768.3	71644.1	[2500]	ug/L	16:49:35
2	Sn 189.927†	2458.9	2389.3	[500]	ug/L	16:49:55
2	Ti 334.940†	287111.7	282256.7	[500]	ug/L	16:49:35
2	Tl 190.801†	1432.0	1432.9	[500]	ug/L	16:49:55
2	U 409.014†	10337.3	13172.3	[500]	ug/L	16:49:35
2	V 292.402†	57570.0	57992.4	[500]	ug/L	16:49:35
2	Zn 213.857†	47353.7	45665.1	[500]	ug/L	16:49:35
2	SiO2†	74337.8	72205.4	[5347.5]	ug/L	16:50:36
3	Sc Radial	3516.6	3516.6	99.4	%	16:48:51
3	Y RADIAL	4016.7	4016.7	100.5	%	16:48:31
3	Al 396.153Radial†	4959.9	5101.7	[5000]	ug/L	16:48:31
3	Ca 317.933Radial†	2312.2	2294.2	[5000]	ug/L	16:48:51
3	K 766.490 Radial†	29630.6	26656.9	[5000]	ug/L	16:48:31
3	Mg 279.077 IEC†	103.4	101.4	[5000]	ug/L	16:48:51
3	Sr 421.552†	72671.6	71648.2	[500]	ug/L	16:48:31
3	Sc 361.383	757162.3	757162.3	100.78	%	16:50:01
3	Y 371.029	586987.1	586987.1	99.749	%	16:50:01
3	Ag 328.068†	95649.6	94586.2	[500]	ug/L	16:50:06
3	As 188.979†	1032.9	1045.6	[500]	ug/L	16:50:26
3	B 249.677†	19262.0	19555.5	[500]	ug/L	16:50:06
3	Ba 233.527†	57730.7	57140.8	[500]	ug/L	16:50:06
3	Be 313.107†	1244794.0	1239557.4	[500]	ug/L	16:50:01
3	Cd 226.502†	37043.4	36953.1	[500]	ug/L	16:50:06
3	Co 228.616†	22476.0	22373.1	[500]	ug/L	16:50:06
3	Cr 267.716†	37738.2	37369.6	[500]	ug/L	16:50:06
3	Cu 324.752†	162467.7	154763.5	[500]	ug/L	16:50:06
3	Mn 257.610†	413917.9	410256.9	[500]	ug/L	16:50:01
3	Mo 202.031†	5989.3	5933.2	[500]	ug/L	16:50:26
3	Ni 231.604†	17403.7	17190.5	[500]	ug/L	16:50:06
3	P 214.914†	4203.2	3959.7	[2500]	ug/L	16:50:26
3	Pb 220.353†	3526.1	3478.1	[500]	ug/L	16:50:26
3	S 181.975 Axial†	714.9	672.0	[1000]	ug/L	16:50:26
3	Sb 206.836†	1364.3	1317.4	[500]	ug/L	16:50:26
3	Se 196.026†	694.7	718.6	[500]	ug/L	16:50:26
3	Si 251.611†	74460.5	73390.2	[2500]	ug/L	16:50:06
3	Sn 189.927†	2448.8	2414.6	[500]	ug/L	16:50:26
3	Ti 334.940†	289512.2	288761.2	[500]	ug/L	16:50:06
3	Tl 190.801†	1435.2	1456.7	[500]	ug/L	16:50:26
3	U 409.014†	10575.8	13557.4	[500]	ug/L	16:50:06
3	V 292.402†	58102.7	59347.7	[500]	ug/L	16:50:06
3	Zn 213.857†	47770.4	46758.5	[500]	ug/L	16:50:06
3	SiO2†	74046.6	72983.8	[5347.5]	ug/L	16:50:41

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	761033.7	6279.74	0.83%	101.29 %
Sc Radial	3538.9	22.29	0.63%	100 %
Y 371.029	589591.4	4428.12	0.75%	100.19 %
Y RADIAL	3966.8	46.97	1.18%	99.20 %
Ag 328.068†	93712.3	1242.79	1.33%	[500] ug/L
Al 396.153Radial†	5035.6	62.42	1.24%	[5000] ug/L
As 188.979†	1040.3	14.99	1.44%	[500] ug/L
B 249.677†	19306.5	293.59	1.52%	[500] ug/L
Ba 233.527†	56739.4	747.37	1.32%	[500] ug/L
Be 313.107†	1240097.0	540.74	0.04%	[500] ug/L
Ca 317.933Radial†	2270.2	22.71	1.00%	[5000] ug/L
Cd 226.502†	36701.4	478.49	1.30%	[500] ug/L
Co 228.616†	22204.3	278.07	1.25%	[500] ug/L
Cr 267.716†	37038.9	535.80	1.45%	[500] ug/L
Cu 324.752†	153551.7	2168.92	1.41%	[500] ug/L
K 766.490 Radial†	26028.0	575.37	2.21%	[5000] ug/L
Mg 279.077 IEC†	98.7	2.53	2.57%	[5000] ug/L
Mn 257.610†	410702.5	452.53	0.11%	[500] ug/L
Mo 202.031†	5924.8	54.40	0.92%	[500] ug/L
Ni 231.604†	17055.0	215.57	1.26%	[500] ug/L
P 214.914†	3960.0	50.27	1.27%	[2500] ug/L
Pb 220.353†	3487.6	51.01	1.46%	[500] ug/L
S 181.975 Axial†	673.0	8.51	1.26%	[1000] ug/L

Sb 206.836†	1310.3	10.96	0.84%	[500]	ug/L
Se 196.026†	722.5	11.32	1.57%	[500]	ug/L
Si 251.611†	72793.5	995.67	1.37%	[2500]	ug/L
Sn 189.927†	2412.8	22.68	0.94%	[500]	ug/L
Sr 421.552†	65755.5	5195.53	7.90%	[500]	ug/L
Ti 334.940†	286533.6	3704.99	1.29%	[500]	ug/L
Tl 190.801†	1450.2	15.10	1.04%	[500]	ug/L
U 409.014†	13400.6	202.25	1.51%	[500]	ug/L
V 292.402†	58897.3	783.66	1.33%	[500]	ug/L
Zn 213.857†	46391.5	629.15	1.36%	[500]	ug/L
SiO2†	72716.6	442.88	0.61%	[5347.5]	ug/L

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

Autosampler Location: 4
 Date Collected: 2/19/2010 16:52:52
 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	3561.0	3561.0	101	%	16:55:05
1	Y RADIAL	3965.2	3965.2	99.16	%	16:54:45
1	Al 396.153Radial†	10278.8	10322.5	[10000]	ug/L	16:54:45
1	Ca 317.933Radial†	4790.7	4727.1	[10000]	ug/L	16:54:45
1	Fe 238.204 Radial†	729.7	715.6	[10000]	ug/L	16:55:05
1	K 766.490 Radial†	56843.5	53314.6	[10000]	ug/L	16:54:45
1	Mg 279.077 IEC†	210.2	206.1	[10000]	ug/L	16:55:05
1	Na 589.592 Radial†	32959.5	28709.0	[10000]	ug/L	16:54:45
1	Sr 421.552†	135674.0	133314.3	[1000]	ug/L	16:54:45
1	Sc 361.383	754525.4	754525.4	100.43	%	16:56:04
1	Y 371.029	583294.7	583294.7	99.122	%	16:56:04
1	Ag 328.068†	195467.0	194312.2	[1000]	ug/L	16:56:04
1	As 188.979†	2180.0	2191.4	[1000]	ug/L	16:56:24
1	B 249.677†	40211.5	40483.0	[1000]	ug/L	16:56:04
1	Ba 233.527†	119273.0	118622.4	[1000]	ug/L	16:56:04
1	Be 313.107†	2569838.0	2563302.1	[1000]	ug/L	16:56:04
1	Cd 226.502†	76465.7	76336.8	[1000]	ug/L	16:56:04
1	Co 228.616†	46211.7	46086.1	[1000]	ug/L	16:56:04
1	Cr 267.716†	77652.7	77245.8	[1000]	ug/L	16:56:04
1	Cu 324.752†	331662.3	323804.4	[1000]	ug/L	16:56:04
1	Mn 257.610†	855797.3	851698.8	[1000]	ug/L	16:56:04
1	Mo 202.031†	12453.2	12390.5	[1000]	ug/L	16:56:24
1	Ni 231.604†	35725.9	35495.4	[1000]	ug/L	16:56:04
1	P 214.914†	8537.3	8290.0	[5000]	ug/L	16:56:24
1	Pb 220.353†	7345.9	7293.9	[1000]	ug/L	16:56:24
1	S 181.975 Axial†	1451.2	1407.7	[2000]	ug/L	16:56:24
1	Sb 206.836†	2822.4	2774.1	[1000]	ug/L	16:56:24
1	Se 196.026†	1471.3	1494.3	[1000]	ug/L	16:56:24
1	Si 251.611†	151356.2	150218.2	[5000]	ug/L	16:56:04
1	Sn 189.927†	5066.0	5029.2	[1000]	ug/L	16:56:24
1	Ti 334.940†	610729.9	609621.4	[1000]	ug/L	16:56:04
1	Tl 190.801†	2995.1	3014.9	[1000]	ug/L	16:56:24
1	U 409.014†	24570.2	27529.2	[1000]	ug/L	16:56:04
1	V 292.402†	121937.6	123113.5	[1000]	ug/L	16:56:04
1	Zn 213.857†	97010.0	95955.1	[1000]	ug/L	16:56:04
1	SiO2†	151601.1	150466.4	[10695]	ug/L	16:57:25
2	Sc Radial	3546.4	3546.4	100	%	16:55:30
2	Y RADIAL	3955.2	3955.2	98.91	%	16:55:10
2	Al 396.153Radial†	10220.5	10306.2	[10000]	ug/L	16:55:10
2	Ca 317.933Radial†	4782.7	4738.5	[10000]	ug/L	16:55:10
2	Fe 238.204 Radial†	724.8	713.7	[10000]	ug/L	16:55:30
2	K 766.490 Radial†	56528.4	53231.5	[10000]	ug/L	16:55:10
2	Mg 279.077 IEC†	209.5	206.3	[10000]	ug/L	16:55:30
2	Na 589.592 Radial†	32567.7	28452.4	[10000]	ug/L	16:55:10
2	Sr 421.552†	135208.0	133401.3	[1000]	ug/L	16:55:10
2	Sc 361.383	761162.0	761162.0	101.31	%	16:56:32
2	Y 371.029	588959.7	588959.7	100.08	%	16:56:32
2	Ag 328.068†	197161.4	194287.7	[1000]	ug/L	16:56:32
2	As 188.979†	2176.1	2168.6	[1000]	ug/L	16:56:52
2	B 249.677†	40861.6	40775.6	[1000]	ug/L	16:56:32
2	Ba 233.527†	120082.5	118386.0	[1000]	ug/L	16:56:32
2	Be 313.107†	2593138.8	2563990.5	[1000]	ug/L	16:56:32
2	Cd 226.502†	76699.2	75903.4	[1000]	ug/L	16:56:32
2	Co 228.616†	46333.4	45805.1	[1000]	ug/L	16:56:32
2	Cr 267.716†	77938.1	76853.3	[1000]	ug/L	16:56:32
2	Cu 324.752†	335882.0	325090.1	[1000]	ug/L	16:56:32
2	Mn 257.610†	860777.1	849184.3	[1000]	ug/L	16:56:32
2	Mo 202.031†	12403.7	12233.5	[1000]	ug/L	16:56:52
2	Ni 231.604†	35826.5	35284.5	[1000]	ug/L	16:56:32

2	P 214.914†	8522.4	8201.2	[5000]	ug/L	16:56:52
2	Pb 220.353†	7330.0	7214.4	[1000]	ug/L	16:56:52
2	S 181.975 Axial†	1450.8	1394.7	[2000]	ug/L	16:56:52
2	Sb 206.836†	2805.9	2733.3	[1000]	ug/L	16:56:52
2	Se 196.026†	1454.0	1464.5	[1000]	ug/L	16:56:52
2	Si 251.611†	152685.1	150215.8	[5000]	ug/L	16:56:32
2	Sn 189.927†	5041.5	4961.0	[1000]	ug/L	16:56:52
2	Ti 334.940†	615834.2	609357.4	[1000]	ug/L	16:56:32
2	Tl 190.801†	2990.1	2984.1	[1000]	ug/L	16:56:52
2	U 409.014†	24913.7	27654.9	[1000]	ug/L	16:56:32
2	V 292.402†	122887.6	122992.5	[1000]	ug/L	16:56:32
2	Zn 213.857†	97663.9	95758.2	[1000]	ug/L	16:56:32
2	SiO2†	153656.5	151179.0	[10695]	ug/L	16:57:31
3	Sc Radial	3527.9	3527.9	99.7	%	16:55:55
3	Y RADIAL	3984.8	3984.8	99.65	%	16:55:35
3	Al 396.153Radial†	10347.8	10487.4	[10000]	ug/L	16:55:35
3	Ca 317.933Radial†	4813.5	4794.5	[10000]	ug/L	16:55:35
3	Fe 238.204 Radial†	721.7	714.4	[10000]	ug/L	16:55:55
3	K 766.490 Radial†	57089.9	54091.0	[10000]	ug/L	16:55:35
3	Mg 279.077 IEC†	209.9	207.8	[10000]	ug/L	16:55:55
3	Na 589.592 Radial†	32855.4	28911.6	[10000]	ug/L	16:55:35
3	Sr 421.552†	136318.1	135223.4	[1000]	ug/L	16:55:35
3	Sc 361.383	755497.3	755497.3	100.55	%	16:57:00
3	Y 371.029	584810.5	584810.5	99.379	%	16:57:00
3	Ag 328.068†	196119.8	194711.0	[1000]	ug/L	16:57:00
3	As 188.979†	2167.1	2175.8	[1000]	ug/L	16:57:20
3	B 249.677†	40673.5	40891.0	[1000]	ug/L	16:57:00
3	Ba 233.527†	119294.9	118491.5	[1000]	ug/L	16:57:00
3	Be 313.107†	2581275.3	2571384.4	[1000]	ug/L	16:57:00
3	Cd 226.502†	76631.8	76404.0	[1000]	ug/L	16:57:00
3	Co 228.616†	46159.7	45975.2	[1000]	ug/L	16:57:00
3	Cr 267.716†	77806.8	77299.6	[1000]	ug/L	16:57:00
3	Cu 324.752†	333093.0	324802.4	[1000]	ug/L	16:57:00
3	Mn 257.610†	857454.6	852250.8	[1000]	ug/L	16:57:00
3	Mo 202.031†	12401.5	12323.1	[1000]	ug/L	16:57:20
3	Ni 231.604†	35752.4	35476.0	[1000]	ug/L	16:57:00
3	P 214.914†	8517.4	8259.3	[5000]	ug/L	16:57:20
3	Pb 220.353†	7327.3	7266.0	[1000]	ug/L	16:57:20
3	S 181.975 Axial†	1448.7	1403.3	[2000]	ug/L	16:57:20
3	Sb 206.836†	2812.1	2760.2	[1000]	ug/L	16:57:20
3	Se 196.026†	1469.5	1490.7	[1000]	ug/L	16:57:20
3	Si 251.611†	151820.3	150485.8	[5000]	ug/L	16:57:00
3	Sn 189.927†	5065.0	5021.8	[1000]	ug/L	16:57:20
3	Ti 334.940†	612392.5	610492.5	[1000]	ug/L	16:57:00
3	Tl 190.801†	2978.8	2995.0	[1000]	ug/L	16:57:20
3	U 409.014†	24772.7	27699.1	[1000]	ug/L	16:57:00
3	V 292.402†	122530.7	123547.1	[1000]	ug/L	16:57:00
3	Zn 213.857†	97256.2	96075.6	[1000]	ug/L	16:57:00
3	SiO2†	153383.2	152044.4	[10695]	ug/L	16:57:36

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Sc 361.383	757061.6	3584.15	0.47%	100.76	%
Sc Radial	3545.1	16.58	0.47%	100	%
Y 371.029	585688.3	2932.74	0.50%	99.528	%
Y RADIAL	3968.4	15.08	0.38%	99.24	%
Ag 328.068†	194437.0	237.66	0.12%	[1000]	ug/L
Al 396.153Radial†	10372.0	100.23	0.97%	[10000]	ug/L
As 188.979†	2178.6	11.66	0.54%	[1000]	ug/L
B 249.677†	40716.5	210.29	0.52%	[1000]	ug/L
Ba 233.527†	118500.0	118.48	0.10%	[1000]	ug/L
Be 313.107†	2566225.6	4480.83	0.17%	[1000]	ug/L
Ca 317.933Radial†	4753.4	36.09	0.76%	[10000]	ug/L
Cd 226.502†	76214.7	271.71	0.36%	[1000]	ug/L
Co 228.616†	45955.5	141.56	0.31%	[1000]	ug/L
Cr 267.716†	77132.9	243.61	0.32%	[1000]	ug/L
Cu 324.752†	324565.6	674.77	0.21%	[1000]	ug/L
Fe 238.204 Radial†	714.5	0.97	0.14%	[10000]	ug/L
K 766.490 Radial†	53545.7	474.05	0.89%	[10000]	ug/L

Mg 279.077 IEC†	206.7	0.92	0.44%	[10000]	ug/L
Mn 257.610†	851044.6	1634.56	0.19%	[1000]	ug/L
Mo 202.031†	12315.7	78.77	0.64%	[1000]	ug/L
Na 589.592 Radial†	28691.0	230.14	0.80%	[10000]	ug/L
Ni 231.604†	35418.6	116.53	0.33%	[1000]	ug/L
P 214.914†	8250.1	45.10	0.55%	[5000]	ug/L
Pb 220.353†	7258.1	40.35	0.56%	[1000]	ug/L
S 181.975 Axial†	1401.9	6.61	0.47%	[2000]	ug/L
Sb 206.836†	2755.9	20.74	0.75%	[1000]	ug/L
Se 196.026†	1483.2	16.26	1.10%	[1000]	ug/L
Si 251.611†	150306.6	155.21	0.10%	[5000]	ug/L
Sn 189.927†	5004.0	37.40	0.75%	[1000]	ug/L
Sr 421.552†	133979.7	1078.00	0.80%	[1000]	ug/L
Ti 334.940†	609823.8	593.97	0.10%	[1000]	ug/L
Tl 190.801†	2998.0	15.66	0.52%	[1000]	ug/L
U 409.014†	27627.7	88.18	0.32%	[1000]	ug/L
V 292.402†	123217.7	291.62	0.24%	[1000]	ug/L
Zn 213.857†	95929.6	160.20	0.17%	[1000]	ug/L
SiO2†	151229.9	790.27	0.52%	[10695]	ug/L

Sequence No.: 5

Sample ID: S10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 2/19/2010 16:59:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	3582.9	3582.9	101 %	17:02:00
1	Y RADIAL	3930.6	3930.6	98.30 %	17:02:00
1	Al 396.153Radial†	51447.7	50900.4	[50000] ug/L	17:01:40
1	Ca 317.933Radial†	22954.1	22628.1	[50000] ug/L	17:01:40
1	Fe 238.204 Radial†	1389.0	1362.0	[20000] ug/L	17:02:00
1	Mg 279.077 IEC†	996.7	981.2	[50000] ug/L	17:02:00
1	Na 589.592 Radial†	62721.2	57888.6	[20000] ug/L	17:01:40
1	Sc 361.383	736582.9	736582.9	98.038 %	17:02:57
1	Y 371.029	569119.1	569119.1	96.713 %	17:02:57
2	Sc Radial	3542.4	3542.4	100 %	17:02:25
2	Y RADIAL	3891.7	3891.7	97.33 %	17:02:25
2	Al 396.153Radial†	51756.1	51787.7	[50000] ug/L	17:02:05
2	Ca 317.933Radial†	23135.6	23067.9	[50000] ug/L	17:02:05
2	Fe 238.204 Radial†	1389.1	1377.7	[20000] ug/L	17:02:25
2	Mg 279.077 IEC†	988.4	984.2	[50000] ug/L	17:02:25
2	Na 589.592 Radial†	63217.9	59090.8	[20000] ug/L	17:02:05
2	Sc 361.383	745382.0	745382.0	99.209 %	17:03:02
2	Y 371.029	575050.9	575050.9	97.721 %	17:03:02
3	Sc Radial	3576.2	3576.2	101 %	17:02:50
3	Y RADIAL	3923.1	3923.1	98.11 %	17:02:50
3	Al 396.153Radial†	52038.0	51578.0	[50000] ug/L	17:02:30
3	Ca 317.933Radial†	23155.7	22869.4	[50000] ug/L	17:02:30
3	Fe 238.204 Radial†	1397.5	1373.0	[20000] ug/L	17:02:50
3	Mg 279.077 IEC†	993.8	980.2	[50000] ug/L	17:02:50
3	Na 589.592 Radial†	63246.5	58522.4	[20000] ug/L	17:02:30
3	Sc 361.383	743877.5	743877.5	99.008 %	17:03:08
3	Y 371.029	574153.7	574153.7	97.568 %	17:03:08

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	741947.4	4706.32	0.63%	98.752 %
Sc Radial	3567.2	21.68	0.61%	101 %
Y 371.029	572774.6	3197.34	0.56%	97.334 %
Y RADIAL	3915.1	20.60	0.53%	97.91 %
Al 396.153Radial†	51422.0	463.73	0.90%	[50000] ug/L
Ca 317.933Radial†	22855.1	220.23	0.96%	[50000] ug/L
Fe 238.204 Radial†	1370.9	8.08	0.59%	[20000] ug/L
Mg 279.077 IEC†	981.9	2.04	0.21%	[50000] ug/L
Na 589.592 Radial†	58500.6	601.40	1.03%	[20000] ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	193.0	0.00000	0.999892	
Al 396.153Radial	3	Lin Thru 0	0.0	1.029	0.00000	0.999997	
As 188.979	3	Lin Thru 0	0.0	2.158	0.00000	0.999828	
B 249.677	3	Lin Thru 0	0.0	40.28	0.00000	0.999771	
Ba 233.527	3	Lin Thru 0	0.0	117.5	0.00000	0.999854	
Be 313.107	3	Lin Thru 0	0.0	2549	0.00000	0.999907	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.4578	0.00000	0.999971	
Cd 226.502	3	Lin Thru 0	0.0	75.64	0.00000	0.999889	
Co 228.616	3	Lin Thru 0	0.0	45.64	0.00000	0.999906	
Cr 267.716	3	Lin Thru 0	0.0	76.51	0.00000	0.999873	
Cu 324.752	3	Lin Thru 0	0.0	321.0	0.00000	0.999762	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0691	0.00000	0.999858	
K 766.490 Radial	3	Lin Thru 0	0.0	5.322	0.00000	0.999919	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0197	0.00000	0.999949
Mn 257.610	3	Lin Thru 0	0.0	845.1	0.00000	0.999902
Mo 202.031	3	Lin Thru 0	0.0	12.22	0.00000	0.999884
Na 589.592 Radia	2	Lin Thru 0	0.0	2.914	0.00000	0.999971
Ni 231.604	3	Lin Thru 0	0.0	35.15	0.00000	0.999886
P 214.914	3	Lin Thru 0	0.0	1.637	0.00000	0.999870
Pb 220.353	3	Lin Thru 0	0.0	7.200	0.00000	0.999873
S 181.975 Axial	3	Lin Thru 0	0.0	0.6953	0.00000	0.999872
Sb 206.836	3	Lin Thru 0	0.0	2.728	0.00000	0.999801
Se 196.026	3	Lin Thru 0	0.0	1.476	0.00000	0.999944
Si 251.611	3	Lin Thru 0	0.0	29.87	0.00000	0.999917
Sn 189.927	3	Lin Thru 0	0.0	4.967	0.00000	0.999893
Sr 421.552	3	Lin Thru 0	0.0	133.4	0.00000	0.999916
Ti 334.940	3	Lin Thru 0	0.0	602.3	0.00000	0.999702
Tl 190.801	3	Lin Thru 0	0.0	2.978	0.00000	0.999915
U 409.014	3	Lin Thru 0	0.0	27.48	0.00000	0.999915
V 292.402	3	Lin Thru 0	0.0	122.1	0.00000	0.999839
Zn 213.857	3	Lin Thru 0	0.0	95.29	0.00000	0.999913
SiO2	3	Lin Thru 0	0.0	14.03	0.00000	0.999879

Sequence No.: 6
 Sample ID: ICV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 9
 Date Collected: 2/19/2010 17:05:20
 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	3603.4	3603.4	102 %		17:07:33
1	Y RADIAL	4036.8	4036.8	101.0 %		17:07:13
1	Al 396.153Radial†	5089.2	5108.5	4940.6 ug/L	4940.6 ppb	17:07:13
1	Ca 317.933Radial†	2375.6	2300.5	5025.5 ug/L	5025.5 ppb	17:07:33
1	Fe 238.204 Radial†	369.5	353.5	5129.7 ug/L	5129.7 ppb	17:07:33
1	K 766.490 Radial†	16111.7	12670.1	2377.6 ug/L	2377.6 ppb	17:07:13
1	Mg 279.077 IEC†	111.2	106.5	5413.4 ug/L	5413.4 ppb	17:07:33
1	Na 589.592 Radial†	9480.3	5277.9	1811.3 ug/L	1811.3 ppb	17:07:13
1	Sr 421.552†	70547.3	67803.8	508.39 ug/L	508.39 ppb	17:07:13
1	Sc 361.383	758721.1	758721.1	100.98 %		17:08:31
1	Y 371.029	589790.1	589790.1	100.23 %		17:08:31
1	Ag 328.068†	49549.0	48739.8	255.68 ug/L	255.68 ppb	17:08:31
1	As 188.979†	1026.4	1037.0	484.66 ug/L	484.66 ppb	17:08:51
1	B 249.677†	20369.1	20612.6	509.47 ug/L	509.47 ppb	17:08:31
1	Ba 233.527†	60288.0	59555.4	508.20 ug/L	508.20 ppb	17:08:31
1	Be 313.107†	657694.5	655641.2	258.38 ug/L	258.38 ppb	17:08:31
1	Cd 226.502†	37581.2	37410.1	494.46 ug/L	494.46 ppb	17:08:51
1	Co 228.616†	23400.9	23243.2	509.49 ug/L	509.49 ppb	17:08:51
1	Cr 267.716†	37566.1	37122.2	486.18 ug/L	486.18 ppb	17:08:31
1	Cu 324.752†	169559.8	161455.3	502.98 ug/L	502.98 ppb	17:08:31
1	Mn 257.610†	433550.5	428854.3	507.76 ug/L	507.76 ppb	17:08:31
1	Mo 202.031†	6628.2	6553.7	536.72 ug/L	536.72 ppb	17:08:51
1	Ni 231.604†	17849.4	17596.3	500.32 ug/L	500.32 ppb	17:08:51
1	P 214.914†	4406.8	4152.8	2439.7 ug/L	2439.7 ppb	17:08:51
1	Pb 220.353†	3663.9	3607.3	503.25 ug/L	503.25 ppb	17:08:51
1	S 181.975 Axial†	1793.0	1738.2	2498.9 ug/L	2498.9 ppb	17:08:51
1	Sb 206.836†	1420.2	1370.0	521.49 ug/L	521.49 ppb	17:08:51
1	Se 196.026†	3838.8	3830.7	2615.4 ug/L	2615.4 ppb	17:08:51
1	Si 251.611†	146387.8	144464.8	4830.6 ug/L	4830.6 ppb	17:08:31
1	Sn 189.927†	2704.2	2662.5	536.63 ug/L	536.63 ppb	17:08:51
1	Ti 334.940†	297313.3	295896.0	491.08 ug/L	491.08 ppb	17:08:31
1	Tl 190.801†	1576.7	1593.9	538.46 ug/L	538.46 ppb	17:08:51
1	U 409.014†	10697.5	13656.4	495.37 ug/L	495.37 ppb	17:08:31
1	V 292.402†	60241.6	61347.3	509.62 ug/L	509.62 ppb	17:08:31
1	Zn 213.857†	49485.2	48359.2	502.86 ug/L	502.86 ppb	17:08:31
1	SiO2†	145859.2	143945.6	10246 ug/L	10246 ppb	17:09:48
2	Sc Radial	3609.9	3609.9	102 %		17:07:58
2	Y RADIAL	4019.6	4019.6	100.5 %		17:07:38
2	Al 396.153Radial†	5151.7	5160.6	4991.5 ug/L	4991.5 ppb	17:07:38
2	Ca 317.933Radial†	2387.0	2307.4	5040.6 ug/L	5040.6 ppb	17:07:58
2	Fe 238.204 Radial†	367.3	350.7	5088.8 ug/L	5088.8 ppb	17:07:58
2	K 766.490 Radial†	16303.2	12828.9	2407.4 ug/L	2407.4 ppb	17:07:38
2	Mg 279.077 IEC†	107.6	102.8	5222.0 ug/L	5222.0 ppb	17:07:58
2	Na 589.592 Radial†	9518.5	5298.4	1818.4 ug/L	1818.4 ppb	17:07:38
2	Sr 421.552†	70497.1	67628.2	507.08 ug/L	507.08 ppb	17:07:38
2	Sc 361.383	761251.7	761251.7	101.32 %		17:08:57
2	Y 371.029	591889.2	591889.2	100.58 %		17:08:57
2	Ag 328.068†	49823.2	48847.3	256.23 ug/L	256.23 ppb	17:08:57
2	As 188.979†	1030.6	1037.8	485.04 ug/L	485.04 ppb	17:09:17
2	B 249.677†	20600.5	20774.0	513.50 ug/L	513.50 ppb	17:08:57
2	Ba 233.527†	60490.8	59557.2	508.21 ug/L	508.21 ppb	17:08:57
2	Be 313.107†	662824.2	658539.0	259.52 ug/L	259.52 ppb	17:08:57
2	Cd 226.502†	37371.5	37079.4	490.09 ug/L	490.09 ppb	17:09:17
2	Co 228.616†	23284.4	23051.2	505.27 ug/L	505.27 ppb	17:09:17
2	Cr 267.716†	37793.1	37222.6	487.49 ug/L	487.49 ppb	17:08:57
2	Cu 324.752†	170553.6	161878.0	504.29 ug/L	504.29 ppb	17:08:57
2	Mn 257.610†	435718.6	429567.0	508.61 ug/L	508.61 ppb	17:08:57
2	Mo 202.031†	6601.7	6505.6	532.78 ug/L	532.78 ppb	17:09:17
2	Ni 231.604†	17748.4	17437.9	495.82 ug/L	495.82 ppb	17:09:17

2	P 214.914†	4380.3	4112.1	2414.6 ug/L	2414.6 ppb	17:09:17
2	Pb 220.353†	3684.9	3616.0	504.46 ug/L	504.46 ppb	17:09:17
2	S 181.975 Axial†	1780.8	1720.2	2473.0 ug/L	2473.0 ppb	17:09:17
2	Sb 206.836†	1402.4	1347.8	513.20 ug/L	513.20 ppb	17:09:17
2	Se 196.026†	3829.9	3809.3	2600.8 ug/L	2600.8 ppb	17:09:17
2	Si 251.611†	147092.8	144678.7	4837.8 ug/L	4837.8 ppb	17:08:57
2	Sn 189.927†	2692.0	2641.6	532.44 ug/L	532.44 ppb	17:09:17
2	Ti 334.940†	299336.7	296914.3	492.79 ug/L	492.79 ppb	17:08:57
2	Tl 190.801†	1556.1	1568.4	529.93 ug/L	529.93 ppb	17:09:17
2	U 409.014†	10718.3	13641.7	494.84 ug/L	494.84 ppb	17:08:57
2	V 292.402†	60635.2	61537.4	511.12 ug/L	511.12 ppb	17:08:57
2	Zn 213.857†	49834.6	48541.1	504.80 ug/L	504.80 ppb	17:08:57
2	SiO2†	144363.7	141989.5	10107 ug/L	10107 ppb	17:09:53
3	Sc Radial	3611.4	3611.4	102 %		17:08:23
3	Y RADIAL	3995.3	3995.3	99.92 %		17:08:03
3	Al 396.153Radial†	5102.9	5110.7	4942.6 ug/L	4942.6 ppb	17:08:03
3	Ca 317.933Radial†	2379.8	2299.4	5023.2 ug/L	5023.2 ppb	17:08:23
3	Fe 238.204 Radial†	367.9	351.1	5094.8 ug/L	5094.8 ppb	17:08:23
3	K 766.490 Radial†	16235.9	12756.4	2393.8 ug/L	2393.8 ppb	17:08:03
3	Mg 279.077 IEC†	107.2	102.3	5200.5 ug/L	5200.5 ppb	17:08:23
3	Na 589.592 Radial†	9485.5	5262.3	1805.9 ug/L	1805.9 ppb	17:08:03
3	Sr 421.552†	69888.7	67003.7	502.39 ug/L	502.39 ppb	17:08:03
3	Sc 361.383	754848.3	754848.3	100.47 %		17:09:23
3	Y 371.029	587026.2	587026.2	99.756 %		17:09:23
3	Ag 328.068†	49345.3	48788.7	255.92 ug/L	255.92 ppb	17:09:23
3	As 188.979†	1025.7	1041.6	486.75 ug/L	486.75 ppb	17:09:43
3	B 249.677†	20427.0	20773.6	513.47 ug/L	513.47 ppb	17:09:23
3	Ba 233.527†	60162.4	59736.7	509.74 ug/L	509.74 ppb	17:09:23
3	Be 313.107†	655978.5	657274.7	259.02 ug/L	259.02 ppb	17:09:23
3	Cd 226.502†	37587.1	37606.9	497.07 ug/L	497.07 ppb	17:09:43
3	Co 228.616†	23419.0	23380.1	512.50 ug/L	512.50 ppb	17:09:43
3	Cr 267.716†	37509.4	37256.6	487.93 ug/L	487.93 ppb	17:09:23
3	Cu 324.752†	169174.3	161933.1	504.46 ug/L	504.46 ppb	17:09:23
3	Mn 257.610†	432966.1	430475.4	509.69 ug/L	509.69 ppb	17:09:23
3	Mo 202.031†	6648.2	6607.2	541.09 ug/L	541.09 ppb	17:09:43
3	Ni 231.604†	17834.6	17672.3	502.48 ug/L	502.48 ppb	17:09:43
3	P 214.914†	4394.7	4163.1	2445.7 ug/L	2445.7 ppb	17:09:43
3	Pb 220.353†	3675.9	3637.9	507.52 ug/L	507.52 ppb	17:09:43
3	S 181.975 Axial†	1785.0	1739.3	2500.6 ug/L	2500.6 ppb	17:09:43
3	Sb 206.836†	1406.4	1363.5	519.24 ug/L	519.24 ppb	17:09:43
3	Se 196.026†	3839.2	3850.6	2628.8 ug/L	2628.8 ppb	17:09:43
3	Si 251.611†	146082.0	144904.1	4845.3 ug/L	4845.3 ppb	17:09:23
3	Sn 189.927†	2699.2	2671.2	538.40 ug/L	538.40 ppb	17:09:43
3	Ti 334.940†	296643.8	296740.1	492.49 ug/L	492.49 ppb	17:09:23
3	Tl 190.801†	1567.1	1592.3	537.95 ug/L	537.95 ppb	17:09:43
3	U 409.014†	10743.7	13756.7	499.02 ug/L	499.02 ppb	17:09:23
3	V 292.402†	60075.3	61487.8	510.84 ug/L	510.84 ppb	17:09:23
3	Zn 213.857†	49443.5	48569.1	505.05 ug/L	505.05 ppb	17:09:23
3	SiO2†	148122.6	146939.6	10459 ug/L	10459 ppb	17:09:58

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	758273.7	100.92 %	0.429			0.43%
Sc Radial	3608.2	102 %	0.1			0.12%
Y 371.029	589568.5	100.19 %	0.414			0.41%
Y RADIAL	4017.2	100.5 %	0.52			0.52%
Ag 328.068†	48792.0	255.94 ug/L	0.276	255.94 ppb	0.276	0.11%
QC value within limits for Ag 328.068 Recovery = 102.38%						
Al 396.153Radial†	5126.6	4958.2 ug/L	28.84	4958.2 ppb	28.84	0.58%
QC value within limits for Al 396.153Radial Recovery = 99.16%						
As 188.979†	1038.8	485.48 ug/L	1.115	485.48 ppb	1.115	0.23%
QC value within limits for As 188.979 Recovery = 97.10%						
B 249.677†	20720.1	512.15 ug/L	2.316	512.15 ppb	2.316	0.45%
QC value within limits for B 249.677 Recovery = 102.43%						
Ba 233.527†	59616.4	508.72 ug/L	0.887	508.72 ppb	0.887	0.17%
QC value within limits for Ba 233.527 Recovery = 101.74%						
Be 313.107†	657151.6	258.97 ug/L	0.572	258.97 ppb	0.572	0.22%
QC value within limits for Be 313.107 Recovery = 103.59%						
Ca 317.933Radial†	2302.5	5029.7 ug/L	9.46	5029.7 ppb	9.46	0.19%

QC value within limits for Ca 317.933 Radial Recovery = 100.59%

Cd 226.502†	37365.5	493.87 ug/L	3.526	493.87 ppb	3.526	0.71%
QC value within limits for Cd 226.502 Recovery = 98.77%						
Co 228.616†	23224.8	509.09 ug/L	3.631	509.09 ppb	3.631	0.71%
QC value within limits for Co 228.616 Recovery = 101.82%						
Cr 267.716†	37200.5	487.20 ug/L	0.912	487.20 ppb	0.912	0.19%
QC value within limits for Cr 267.716 Recovery = 97.44%						
Cu 324.752†	161755.4	503.91 ug/L	0.813	503.91 ppb	0.813	0.16%
QC value within limits for Cu 324.752 Recovery = 100.78%						
Fe 238.204 Radial†	351.8	5104.4 ug/L	22.07	5104.4 ppb	22.07	0.43%
QC value within limits for Fe 238.204 Radial Recovery = 102.09%						
K 766.490 Radial†	12751.8	2392.9 ug/L	14.93	2392.9 ppb	14.93	0.62%
QC value within limits for K 766.490 Radial Recovery = 95.72%						
Mg 279.077 IEC†	103.9	5278.6 ug/L	117.19	5278.6 ppb	117.19	2.22%
QC value within limits for Mg 279.077 IEC Recovery = 105.57%						
Mn 257.610†	429632.2	508.69 ug/L	0.964	508.69 ppb	0.964	0.19%
QC value within limits for Mn 257.610 Recovery = 101.74%						
Mo 202.031†	6555.5	536.87 ug/L	4.157	536.87 ppb	4.157	0.77%
QC value within limits for Mo 202.031 Recovery = 107.37%						
Na 589.592 Radial†	5279.5	1811.9 ug/L	6.23	1811.9 ppb	6.23	0.34%
QC value less than the lower limit for Na 589.592 Radial Recovery = 72.48%						
Ni 231.604†	17568.8	499.54 ug/L	3.401	499.54 ppb	3.401	0.68%
QC value within limits for Ni 231.604 Recovery = 99.91%						
P 214.914†	4142.6	2433.3 ug/L	16.52	2433.3 ppb	16.52	0.68%
QC value within limits for P 214.914 Recovery = 97.33%						
Pb 220.353†	3620.4	505.08 ug/L	2.196	505.08 ppb	2.196	0.43%
QC value within limits for Pb 220.353 Recovery = 101.02%						
S 181.975 Axial†	1732.6	2490.8 ug/L	15.47	2490.8 ppb	15.47	0.62%
QC value within limits for S 181.975 Axial Recovery = 99.63%						
Sb 206.836†	1360.4	517.98 ug/L	4.286	517.98 ppb	4.286	0.83%
QC value within limits for Sb 206.836 Recovery = 103.60%						
Se 196.026†	3830.2	2615.0 ug/L	14.02	2615.0 ppb	14.02	0.54%
QC value within limits for Se 196.026 Recovery = 104.60%						
Si 251.611†	144682.5	4837.9 ug/L	7.33	4837.9 ppb	7.33	0.15%
QC value within limits for Si 251.611 Recovery = 96.76%						
Sn 189.927†	2658.4	535.82 ug/L	3.061	535.82 ppb	3.061	0.57%
QC value within limits for Sn 189.927 Recovery = 107.16%						
Sr 421.552†	67478.6	505.95 ug/L	3.153	505.95 ppb	3.153	0.62%
QC value within limits for Sr 421.552 Recovery = 101.19%						
Ti 334.940†	296516.8	492.12 ug/L	0.914	492.12 ppb	0.914	0.19%
QC value within limits for Ti 334.940 Recovery = 98.42%						
Tl 190.801†	1584.9	535.45 ug/L	4.785	535.45 ppb	4.785	0.89%
QC value within limits for Tl 190.801 Recovery = 107.09%						
U 409.014†	13684.9	496.41 ug/L	2.277	496.41 ppb	2.277	0.46%
QC value within limits for U 409.014 Recovery = 99.28%						
V 292.402†	61457.5	510.53 ug/L	0.798	510.53 ppb	0.798	0.16%
QC value within limits for V 292.402 Recovery = 102.11%						
Zn 213.857†	48489.8	504.24 ug/L	1.200	504.24 ppb	1.200	0.24%
QC value within limits for Zn 213.857 Recovery = 100.85%						
SiO2†	144291.5	10271 ug/L	177.6	10271 ppb	177.6	1.73%
QC value within limits for SiO2 Recovery = 96.03%						

QC Failed. Continue with analysis.

Sequence No.: 7
 Sample ID: ICB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 10
 Date Collected: 2/19/2010 17:12:09
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3527.4	3527.4	99.7 %		17:14:22
1	Y RADIAL	4012.0	4012.0	100.3 %		17:14:02
1	Al 396.153Radial†	-119.3	-6.4	-6.2288 ug/L	-6.2288 ppb	17:14:22
1	Ca 317.933Radial†	63.7	32.7	71.382 ug/L	71.382 ppb	17:14:22
1	Fe 238.204 Radial†	7.3	-1.8	-26.094 ug/L	-26.094 ppb	17:14:22
1	K 766.490 Radial†	2934.8	-201.5	-37.655 ug/L	-37.655 ppb	17:14:02
1	Mg 279.077 IEC†	5.0	2.4	120.82 ug/L	120.82 ppb	17:14:22
1	Na 589.592 Radial†	2223.5	-1797.9	-617.02 ug/L	-617.02 ppb	17:14:02
1	Sr 421.552†	926.1	-512.9	-3.8464 ug/L	-3.8464 ppb	17:14:02
1	Sc 361.383	758528.2	758528.2	100.96 %		17:15:19
1	Y 371.029	595620.6	595620.6	101.22 %		17:15:19
1	Ag 328.068†	306.6	-22.7	-0.1246 ug/L	-0.1246 ppb	17:15:19
1	As 188.979†	-21.8	-0.9	-0.4340 ug/L	-0.4340 ppb	17:15:39
1	B 249.677†	-263.3	181.2	4.5017 ug/L	4.5017 ppb	17:15:39
1	Ba 233.527†	501.4	351.6	2.9925 ug/L	2.9925 ppb	17:15:39
1	Be 313.107†	-4654.3	-254.3	-0.0996 ug/L	-0.0996 ppb	17:15:19
1	Cd 226.502†	-193.6	3.4	0.0472 ug/L	0.0472 ppb	17:15:39
1	Co 228.616†	-63.9	7.1	0.1580 ug/L	0.1580 ppb	17:15:39
1	Cr 267.716†	90.3	11.6	0.1496 ug/L	0.1496 ppb	17:15:39
1	Cu 324.752†	6243.1	-268.4	-0.8369 ug/L	-0.8369 ppb	17:15:19
1	Mn 257.610†	441.2	-34.3	-0.0480 ug/L	-0.0480 ppb	17:15:39
1	Mo 202.031†	19.7	9.5	0.7759 ug/L	0.7759 ppb	17:15:39
1	Ni 231.604†	89.9	9.9	0.2806 ug/L	0.2806 ppb	17:15:39
1	P 214.914†	212.5	-0.7	-0.2104 ug/L	-0.2104 ppb	17:15:39
1	Pb 220.353†	-32.2	-52.7	-7.3186 ug/L	-7.3186 ppb	17:15:39
1	S 181.975 Axial†	35.2	-2.6	-3.6854 ug/L	-3.6854 ppb	17:15:39
1	Sb 206.836†	33.0	-3.6	-1.3100 ug/L	-1.3100 ppb	17:15:39
1	Se 196.026†	-26.4	3.1	2.0130 ug/L	2.0130 ppb	17:15:39
1	Si 251.611†	522.4	20.9	0.6908 ug/L	0.6908 ppb	17:15:39
1	Sn 189.927†	16.7	1.2	0.2538 ug/L	0.2538 ppb	17:15:39
1	Ti 334.940†	-1454.6	39.1	0.0651 ug/L	0.0651 ppb	17:15:19
1	Tl 190.801†	-33.3	-0.4	-0.1411 ug/L	-0.1411 ppb	17:15:39
1	U 409.014†	-3120.5	-27.8	-1.0098 ug/L	-1.0098 ppb	17:15:19
1	V 292.402†	-1677.7	30.9	0.2680 ug/L	0.2680 ppb	17:15:19
1	Zn 213.857†	650.3	0.4	0.0072 ug/L	0.0072 ppb	17:15:39
1	SiO2†	549.7	52.3	3.7061 ug/L	3.7061 ppb	17:16:35
2	Sc Radial	3553.2	3553.2	100 %		17:14:47
2	Y RADIAL	4012.0	4012.0	100.3 %		17:14:27
2	Al 396.153Radial†	-112.0	1.8	1.6981 ug/L	1.6981 ppb	17:14:47
2	Ca 317.933Radial†	27.5	-3.9	-8.4964 ug/L	-8.4964 ppb	17:14:47
2	Fe 238.204 Radial†	9.5	0.3	3.7488 ug/L	3.7488 ppb	17:14:47
2	K 766.490 Radial†	3077.6	-80.7	-14.953 ug/L	-14.953 ppb	17:14:27
2	Mg 279.077 IEC†	3.6	0.9	46.595 ug/L	46.595 ppb	17:14:47
2	Na 589.592 Radial†	2513.3	-1525.6	-523.58 ug/L	-523.58 ppb	17:14:27
2	Sr 421.552†	1763.2	313.7	2.3523 ug/L	2.3523 ppb	17:14:27
2	Sc 361.383	746217.7	746217.7	99.320 %		17:15:44
2	Y 371.029	585911.8	585911.8	99.566 %		17:15:44
2	Ag 328.068†	211.5	-113.4	-0.5850 ug/L	-0.5850 ppb	17:15:44
2	As 188.979†	-22.7	-2.2	-1.0111 ug/L	-1.0111 ppb	17:16:04
2	B 249.677†	-270.4	169.7	4.2125 ug/L	4.2125 ppb	17:16:04
2	Ba 233.527†	309.2	166.3	1.4165 ug/L	1.4165 ppb	17:16:04
2	Be 313.107†	-4569.1	-244.6	-0.0959 ug/L	-0.0959 ppb	17:15:44
2	Cd 226.502†	-179.7	14.2	0.1884 ug/L	0.1884 ppb	17:16:04
2	Co 228.616†	-65.8	4.1	0.0903 ug/L	0.0903 ppb	17:16:04
2	Cr 267.716†	90.5	13.3	0.1748 ug/L	0.1748 ppb	17:16:04
2	Cu 324.752†	6145.5	-264.6	-0.8248 ug/L	-0.8248 ppb	17:15:44
2	Mn 257.610†	495.6	27.7	0.0312 ug/L	0.0312 ppb	17:16:04
2	Mo 202.031†	13.2	3.4	0.2746 ug/L	0.2746 ppb	17:16:04
2	Ni 231.604†	96.2	17.7	0.5044 ug/L	0.5044 ppb	17:16:04

2	P 214.914†	205.1	-4.6	-2.6526 ug/L	-2.6526 ppb	17:16:04
2	Pb 220.353†	0.3	-20.5	-2.8497 ug/L	-2.8497 ppb	17:16:04
2	S 181.975 Axial†	39.4	2.3	3.3169 ug/L	3.3169 ppb	17:16:04
2	Sb 206.836†	37.6	1.5	0.5508 ug/L	0.5508 ppb	17:16:04
2	Se 196.026†	-14.7	14.5	9.8571 ug/L	9.8571 ppb	17:16:04
2	Si 251.611†	520.7	27.7	0.9249 ug/L	0.9249 ppb	17:16:04
2	Sn 189.927†	12.6	-2.6	-0.5283 ug/L	-0.5283 ppb	17:16:04
2	Ti 334.940†	-1452.1	18.0	0.0244 ug/L	0.0244 ppb	17:15:44
2	Tl 190.801†	-31.0	1.4	0.4649 ug/L	0.4649 ppb	17:16:04
2	U 409.014†	-3015.6	26.9	0.9769 ug/L	0.9769 ppb	17:15:44
2	V 292.402†	-1614.4	67.3	0.5569 ug/L	0.5569 ppb	17:15:44
2	Zn 213.857†	663.8	24.6	0.2554 ug/L	0.2554 ppb	17:16:04
2	SiO2†	502.9	14.1	1.0007 ug/L	1.0007 ppb	17:16:40
3	Sc Radial	3522.9	3522.9	99.6 %		17:15:12
3	Y RADIAL	3977.2	3977.2	99.46 %		17:14:52
3	Al 396.153Radial†	-113.8	-1.1	-1.0667 ug/L	-1.0667 ppb	17:15:12
3	Ca 317.933Radial†	25.6	-5.6	-12.163 ug/L	-12.163 ppb	17:15:12
3	Fe 238.204 Radial†	6.7	-2.5	-35.720 ug/L	-35.720 ppb	17:15:12
3	K 766.490 Radial†	3063.4	-68.6	-12.632 ug/L	-12.632 ppb	17:14:52
3	Mg 279.077 IEC†	1.0	-1.6	-82.461 ug/L	-82.461 ppb	17:15:12
3	Na 589.592 Radial†	2062.7	-1956.5	-671.44 ug/L	-671.44 ppb	17:14:52
3	Sr 421.552†	117.0	-1323.9	-9.9274 ug/L	-9.9274 ppb	17:14:52
3	Sc 361.383	760577.5	760577.5	101.23 %		17:16:10
3	Y 371.029	597876.8	597876.8	101.60 %		17:16:10
3	Ag 328.068†	272.6	-57.1	-0.3113 ug/L	-0.3113 ppb	17:16:10
3	As 188.979†	-29.4	-8.3	-3.8763 ug/L	-3.8763 ppb	17:16:30
3	B 249.677†	-263.4	181.8	4.5187 ug/L	4.5187 ppb	17:16:30
3	Ba 233.527†	148.8	2.0	0.0154 ug/L	0.0154 ppb	17:16:30
3	Be 313.107†	-4525.5	-114.7	-0.0449 ug/L	-0.0449 ppb	17:16:10
3	Cd 226.502†	-197.5	0.0	0.0047 ug/L	0.0047 ppb	17:16:30
3	Co 228.616†	-66.7	4.4	0.0995 ug/L	0.0995 ppb	17:16:30
3	Cr 267.716†	95.6	16.6	0.2120 ug/L	0.2120 ppb	17:16:30
3	Cu 324.752†	6179.6	-347.7	-1.0878 ug/L	-1.0878 ppb	17:16:10
3	Mn 257.610†	476.7	-0.4	-0.0006 ug/L	-0.0006 ppb	17:16:30
3	Mo 202.031†	21.3	11.1	0.9027 ug/L	0.9027 ppb	17:16:30
3	Ni 231.604†	63.1	-16.8	-0.4770 ug/L	-0.4770 ppb	17:16:30
3	P 214.914†	212.2	-1.5	-0.6878 ug/L	-0.6878 ppb	17:16:30
3	Pb 220.353†	-2.9	-23.7	-3.2875 ug/L	-3.2875 ppb	17:16:30
3	S 181.975 Axial†	38.1	0.3	0.4094 ug/L	0.4094 ppb	17:16:30
3	Sb 206.836†	34.3	-2.5	-0.8733 ug/L	-0.8733 ppb	17:16:30
3	Se 196.026†	-20.7	8.8	5.8425 ug/L	5.8425 ppb	17:16:30
3	Si 251.611†	526.9	23.9	0.7902 ug/L	0.7902 ppb	17:16:30
3	Sn 189.927†	19.6	4.0	0.8095 ug/L	0.8095 ppb	17:16:30
3	Ti 334.940†	-1483.7	14.3	0.0268 ug/L	0.0268 ppb	17:16:10
3	Tl 190.801†	-19.2	13.6	4.5600 ug/L	4.5600 ppb	17:16:30
3	U 409.014†	-2972.6	126.7	4.6150 ug/L	4.6150 ppb	17:16:10
3	V 292.402†	-1736.8	-23.0	-0.1630 ug/L	-0.1630 ppb	17:16:10
3	Zn 213.857†	654.0	2.3	0.0339 ug/L	0.0339 ppb	17:16:30
3	SiO2†	543.7	44.9	3.1726 ug/L	3.1726 ppb	17:16:45

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	755107.8	100.50 %	1.034			1.03%
Sc Radial	3534.5	99.9 %	0.46			0.46%
Y 371.029	593136.4	100.79 %	1.080			1.07%
Y RADIAL	4000.4	100.0 %	0.50			0.50%
Ag 328.068†	-64.4	-0.3403 ug/L	0.23158	-0.3403 ppb	0.23158	68.06%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-1.9	-1.8658 ug/L	4.02342	-1.8658 ppb	4.02342	215.64%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.8	-1.7738 ug/L	1.84355	-1.7738 ppb	1.84355	103.93%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	177.5	4.4109 ug/L	0.17210	4.4109 ppb	0.17210	3.90%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	173.3	1.4748 ug/L	1.48942	1.4748 ppb	1.48942	100.99%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-204.5	-0.0802 ug/L	0.03055	-0.0802 ppb	0.03055	38.11%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	7.7	16.907 ug/L	47.2121	16.907 ppb	47.2121	279.24%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	5.9	0.0801 ug/L	0.09615	0.0801 ppb	0.09615	120.01%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	5.2	0.1160 ug/L	0.03675	0.1160 ppb	0.03675	31.69%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	13.8	0.1788 ug/L	0.03138	0.1788 ppb	0.03138	17.55%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-293.6	-0.9165 ug/L	0.14846	-0.9165 ppb	0.14846	16.20%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-1.3	-19.355 ug/L	20.5792	-19.355 ppb	20.5792	106.32%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-117.0	-21.746 ug/L	13.8257	-21.746 ppb	13.8257	63.58%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	0.6	28.317 ug/L	102.8648	28.317 ppb	102.8648	363.26%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-2.3	-0.0058 ug/L	0.03988	-0.0058 ppb	0.03988	685.15%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	8.0	0.6511 ug/L	0.33213	0.6511 ppb	0.33213	51.01%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-1760.0	-604.02 ug/L	74.784	-604.02 ppb	74.784	12.38%
QC value less than the lower limit for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	3.6	0.1027 ug/L	0.51432	0.1027 ppb	0.51432	500.92%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-2.3	-1.1836 ug/L	1.29441	-1.1836 ppb	1.29441	109.36%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-32.3	-4.4853 ug/L	2.46348	-4.4853 ppb	2.46348	54.92%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	0.0	0.0136 ug/L	3.51787	0.0136 ppb	3.51787	>999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	-1.5	-0.5442 ug/L	0.97312	-0.5442 ppb	0.97312	178.82%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	8.8	5.9042 ug/L	3.92239	5.9042 ppb	3.92239	66.43%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	24.2	0.8020 ug/L	0.11749	0.8020 ppb	0.11749	14.65%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	0.9	0.1783 ug/L	0.67207	0.1783 ppb	0.67207	376.85%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-507.7	-3.8072 ug/L	6.13998	-3.8072 ppb	6.13998	161.27%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	23.8	0.0387 ug/L	0.02283	0.0387 ppb	0.02283	58.92%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	4.9	1.6279 ug/L	2.55721	1.6279 ppb	2.55721	157.08%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	41.9	1.5274 ug/L	2.85251	1.5274 ppb	2.85251	186.76%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	25.1	0.2206 ug/L	0.36228	0.2206 ppb	0.36228	164.21%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	9.1	0.0988 ug/L	0.13627	0.0988 ppb	0.13627	137.88%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	37.1	2.6265 ug/L	1.43299	2.6265 ppb	1.43299	54.56%
QC value within limits for SiO2 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 8

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 2/19/2010 17:18:57

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	3552.6	3552.6	100 %		17:21:11
1	Y RADIAL	4072.2	4072.2	101.8 %		17:20:51
1	Al 396.153Radial†	99.3	212.1	205.76 ug/L	205.76 ppb	17:21:11
1	Ca 317.933Radial†	119.6	87.8	191.76 ug/L	191.76 ppb	17:21:11
1	Fe 238.204 Radial†	18.3	9.1	131.35 ug/L	131.35 ppb	17:21:11
1	K 766.490 Radial†	3881.6	720.3	135.26 ug/L	135.26 ppb	17:20:51
1	Mg 279.077 IEC†	6.7	4.0	203.58 ug/L	203.58 ppb	17:21:11
1	Na 589.592 Radial†	4068.3	22.9	7.8719 ug/L	7.8719 ppb	17:20:51
1	Sr 421.552†	4356.2	2895.5	21.711 ug/L	21.711 ppb	17:20:51
1	Sc 361.383	750747.1	750747.1	99.923 %		17:22:08
1	Y 371.029	589572.6	589572.6	100.19 %		17:22:08
1	Ag 328.068†	1155.2	829.7	4.3098 ug/L	4.3098 ppb	17:22:08
1	As 188.979†	40.9	61.6	28.583 ug/L	28.583 ppb	17:22:28
1	B 249.677†	1580.0	2023.2	50.195 ug/L	50.195 ppb	17:22:08
1	Ba 233.527†	635.0	490.5	4.1889 ug/L	4.1889 ppb	17:22:28
1	Be 313.107†	7947.0	12308.9	4.8409 ug/L	4.8409 ppb	17:22:08
1	Cd 226.502†	186.6	381.9	5.0504 ug/L	5.0504 ppb	17:22:28
1	Co 228.616†	148.8	219.3	4.8161 ug/L	4.8161 ppb	17:22:28
1	Cr 267.716†	434.3	356.8	4.6599 ug/L	4.6599 ppb	17:22:28
1	Cu 324.752†	9285.9	2840.9	8.8259 ug/L	8.8259 ppb	17:22:08
1	Mn 257.610†	9087.9	8623.6	10.209 ug/L	10.209 ppb	17:22:08
1	Mo 202.031†	132.3	122.4	10.031 ug/L	10.031 ppb	17:22:28
1	Ni 231.604†	288.2	209.3	5.9530 ug/L	5.9530 ppb	17:22:28
1	P 214.914†	439.8	229.0	138.18 ug/L	138.18 ppb	17:22:28
1	Pb 220.353†	34.5	13.7	1.9705 ug/L	1.9705 ppb	17:22:28
1	S 181.975 Axial†	107.7	70.4	101.21 ug/L	101.21 ppb	17:22:28
1	Sb 206.836†	58.2	21.9	8.3626 ug/L	8.3626 ppb	17:22:28
1	Se 196.026†	15.0	44.3	30.535 ug/L	30.535 ppb	17:22:28
1	Si 251.611†	3467.9	2974.0	99.458 ug/L	99.458 ppb	17:22:08
1	Sn 189.927†	58.6	43.3	8.7516 ug/L	8.7516 ppb	17:22:28
1	Ti 334.940†	1455.2	2936.3	4.8575 ug/L	4.8575 ppb	17:22:08
1	Tl 190.801†	33.9	66.5	22.380 ug/L	22.380 ppb	17:22:28
1	U 409.014†	-1515.0	1547.0	56.279 ug/L	56.279 ppb	17:22:08
1	V 292.402†	-1126.6	565.2	4.8562 ug/L	4.8562 ppb	17:22:08
1	Zn 213.857†	1638.1	995.6	10.378 ug/L	10.378 ppb	17:22:28
1	SiO2†	3471.6	2982.1	212.29 ug/L	212.29 ppb	17:23:24
2	Sc Radial	3551.9	3551.9	100 %		17:21:36
2	Y RADIAL	4130.6	4130.6	103.3 %		17:21:16
2	Al 396.153Radial†	98.9	211.7	205.31 ug/L	205.31 ppb	17:21:36
2	Ca 317.933Radial†	138.6	106.7	233.16 ug/L	233.16 ppb	17:21:36
2	Fe 238.204 Radial†	15.5	6.3	91.071 ug/L	91.071 ppb	17:21:36
2	K 766.490 Radial†	3875.6	715.1	134.41 ug/L	134.41 ppb	17:21:16
2	Mg 279.077 IEC†	9.9	7.2	366.42 ug/L	366.42 ppb	17:21:36
2	Na 589.592 Radial†	3019.1	-1021.0	-350.41 ug/L	-350.41 ppb	17:21:16
2	Sr 421.552†	1142.3	-303.9	-2.2806 ug/L	-2.2806 ppb	17:21:16
2	Sc 361.383	752373.5	752373.5	100.14 %		17:22:33
2	Y 371.029	591185.9	591185.9	100.46 %		17:22:33
2	Ag 328.068†	1183.1	855.1	4.4335 ug/L	4.4335 ppb	17:22:33
2	As 188.979†	39.8	60.4	28.038 ug/L	28.038 ppb	17:22:53
2	B 249.677†	1508.3	1948.2	48.340 ug/L	48.340 ppb	17:22:33
2	Ba 233.527†	958.5	812.2	6.9262 ug/L	6.9262 ppb	17:22:53
2	Be 313.107†	8099.6	12444.2	4.8941 ug/L	4.8941 ppb	17:22:33
2	Cd 226.502†	181.1	376.0	4.9749 ug/L	4.9749 ppb	17:22:53
2	Co 228.616†	161.1	231.2	5.0795 ug/L	5.0795 ppb	17:22:53
2	Cr 267.716†	431.3	352.9	4.6081 ug/L	4.6081 ppb	17:22:53
2	Cu 324.752†	9268.9	2803.8	8.7117 ug/L	8.7117 ppb	17:22:33
2	Mn 257.610†	9120.7	8636.7	10.214 ug/L	10.214 ppb	17:22:33
2	Mo 202.031†	131.6	121.4	9.9474 ug/L	9.9474 ppb	17:22:53
2	Ni 231.604†	270.5	191.0	5.4306 ug/L	5.4306 ppb	17:22:53

2	P 214.914†	448.5	236.8	143.00 ug/L	143.00 ppb	17:22:53
2	Pb 220.353†	40.9	20.0	2.8455 ug/L	2.8455 ppb	17:22:53
2	S 181.975 Axial†	111.6	74.0	106.45 ug/L	106.45 ppb	17:22:53
2	Sb 206.836†	69.8	33.4	12.590 ug/L	12.590 ppb	17:22:53
2	Se 196.026†	26.6	55.8	38.183 ug/L	38.183 ppb	17:22:53
2	Si 251.611†	3481.2	2979.8	99.653 ug/L	99.653 ppb	17:22:33
2	Sn 189.927†	64.2	48.8	9.8576 ug/L	9.8576 ppb	17:22:53
2	Ti 334.940†	1501.9	2979.7	4.9245 ug/L	4.9245 ppb	17:22:33
2	Tl 190.801†	38.0	70.5	23.735 ug/L	23.735 ppb	17:22:53
2	U 409.014†	-1683.7	1381.8	50.271 ug/L	50.271 ppb	17:22:33
2	V 292.402†	-1123.4	570.9	4.8992 ug/L	4.8992 ppb	17:22:33
2	Zn 213.857†	1655.1	1009.0	10.529 ug/L	10.529 ppb	17:22:53
2	SiO2†	3534.3	3037.2	216.22 ug/L	216.22 ppb	17:23:29
3	Sc Radial	3560.7	3560.7	101 %		17:22:01
3	Y RADIAL	4092.4	4092.4	102.3 %		17:21:41
3	Al 396.153Radial†	90.7	203.4	197.21 ug/L	197.21 ppb	17:22:01
3	Ca 317.933Radial†	123.0	91.0	198.71 ug/L	198.71 ppb	17:22:01
3	Fe 238.204 Radial†	20.6	11.3	163.41 ug/L	163.41 ppb	17:22:01
3	K 766.490 Radial†	3816.5	646.8	121.59 ug/L	121.59 ppb	17:21:41
3	Mg 279.077 IEC†	10.0	7.2	367.40 ug/L	367.40 ppb	17:22:01
3	Na 589.592 Radial†	3003.4	-1044.1	-358.31 ug/L	-358.31 ppb	17:21:41
3	Sr 421.552†	855.6	-591.5	-4.4371 ug/L	-4.4371 ppb	17:21:41
3	Sc 361.383	752316.9	752316.9	100.13 %		17:22:59
3	Y 371.029	590215.2	590215.2	100.30 %		17:22:59
3	Ag 328.068†	1149.0	821.1	4.2798 ug/L	4.2798 ppb	17:22:59
3	As 188.979†	35.0	55.6	25.825 ug/L	25.825 ppb	17:23:19
3	B 249.677†	1553.6	1993.5	49.453 ug/L	49.453 ppb	17:22:59
3	Ba 233.527†	702.8	556.8	4.7547 ug/L	4.7547 ppb	17:23:19
3	Be 313.107†	7885.8	12231.2	4.8102 ug/L	4.8102 ppb	17:22:59
3	Cd 226.502†	191.4	386.3	5.1025 ug/L	5.1025 ppb	17:23:19
3	Co 228.616†	160.2	230.3	5.0587 ug/L	5.0587 ppb	17:23:19
3	Cr 267.716†	452.8	374.4	4.8950 ug/L	4.8950 ppb	17:23:19
3	Cu 324.752†	9371.3	2906.8	9.0365 ug/L	9.0365 ppb	17:22:59
3	Mn 257.610†	9132.0	8648.7	10.235 ug/L	10.235 ppb	17:22:59
3	Mo 202.031†	136.5	126.4	10.355 ug/L	10.355 ppb	17:23:19
3	Ni 231.604†	257.7	178.2	5.0672 ug/L	5.0672 ppb	17:23:19
3	P 214.914†	448.6	236.9	142.93 ug/L	142.93 ppb	17:23:19
3	Pb 220.353†	68.7	47.7	6.6919 ug/L	6.6919 ppb	17:23:19
3	S 181.975 Axial†	108.3	70.8	101.80 ug/L	101.80 ppb	17:23:19
3	Sb 206.836†	65.8	29.4	11.096 ug/L	11.096 ppb	17:23:19
3	Se 196.026†	19.1	48.4	33.382 ug/L	33.382 ppb	17:23:19
3	Si 251.611†	3532.1	3030.9	101.36 ug/L	101.36 ppb	17:22:59
3	Sn 189.927†	54.3	38.9	7.8620 ug/L	7.8620 ppb	17:23:19
3	Ti 334.940†	1401.9	2880.0	4.7541 ug/L	4.7541 ppb	17:22:59
3	Tl 190.801†	38.0	70.5	23.721 ug/L	23.721 ppb	17:23:19
3	U 409.014†	-1686.3	1379.1	50.163 ug/L	50.163 ppb	17:22:59
3	V 292.402†	-1136.3	557.9	4.7877 ug/L	4.7877 ppb	17:22:59
3	Zn 213.857†	1625.3	979.4	10.209 ug/L	10.209 ppb	17:23:19
3	SiO2†	3461.2	2964.5	211.03 ug/L	211.03 ppb	17:23:34

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	751812.5	100.06 %	0.123			0.12%
Sc Radial	3555.1	101 %	0.1			0.14%
Y 371.029	590324.6	100.32 %	0.138			0.14%
Y RADIAL	4098.4	102.5 %	0.74			0.72%
Ag 328.068†	835.3	4.3410 ug/L	0.08146	4.3410 ppb	0.08146	1.88%
QC value within limits for Ag 328.068 Recovery = 86.82%						
Al 396.153Radial†	209.1	202.76 ug/L	4.811	202.76 ppb	4.811	2.37%
QC value within limits for Al 396.153Radial Recovery = 101.38%						
As 188.979†	59.2	27.482 ug/L	1.4604	27.482 ppb	1.4604	5.31%
QC value within limits for As 188.979 Recovery = 91.61%						
B 249.677†	1988.3	49.329 ug/L	0.9340	49.329 ppb	0.9340	1.89%
QC value within limits for B 249.677 Recovery = 98.66%						
Ba 233.527†	619.8	5.2899 ug/L	1.44498	5.2899 ppb	1.44498	27.32%
QC value within limits for Ba 233.527 Recovery = 105.80%						
Be 313.107†	12328.1	4.8484 ug/L	0.04247	4.8484 ppb	0.04247	0.88%
QC value within limits for Be 313.107 Recovery = 96.97%						
Ca 317.933Radial†	95.2	207.88 ug/L	22.173	207.88 ppb	22.173	10.67%

QC value within limits for Ca 317.933 Radial Recovery = 103.94%							
Cd	226.502†	381.4	5.0426 ug/L	0.06420	5.0426 ppb	0.06420	1.27%
QC value within limits for Cd 226.502 Recovery = 100.85%							
Co	228.616†	226.9	4.9847 ug/L	0.14642	4.9847 ppb	0.14642	2.94%
QC value within limits for Co 228.616 Recovery = 99.69%							
Cr	267.716†	361.4	4.7210 ug/L	0.15294	4.7210 ppb	0.15294	3.24%
QC value within limits for Cr 267.716 Recovery = 94.42%							
Cu	324.752†	2850.5	8.8580 ug/L	0.16476	8.8580 ppb	0.16476	1.86%
QC value within limits for Cu 324.752 Recovery = 88.58%							
Fe	238.204 Radial†	8.9	128.61 ug/L	36.248	128.61 ppb	36.248	28.18%
QC value within limits for Fe 238.204 Radial Recovery = 128.61%							
K	766.490 Radial†	694.0	130.42 ug/L	7.655	130.42 ppb	7.655	5.87%
QC value within limits for K 766.490 Radial Recovery = 86.95%							
Mg	279.077 IEC†	6.1	312.47 ug/L	94.300	312.47 ppb	94.300	30.18%
QC value within limits for Mg 279.077 IEC Recovery = 104.16%							
Mn	257.610†	8636.4	10.220 ug/L	0.0139	10.220 ppb	0.0139	0.14%
QC value within limits for Mn 257.610 Recovery = 102.20%							
Mo	202.031†	123.4	10.111 ug/L	0.2152	10.111 ppb	0.2152	2.13%
QC value within limits for Mo 202.031 Recovery = 101.11%							
Na	589.592 Radial†	-680.7	-233.62 ug/L	209.172	-233.62 ppb	209.172	89.54%
QC value less than the lower limit for Na 589.592 Radial Recovery = -77.87%							
Ni	231.604†	192.8	5.4836 ug/L	0.44525	5.4836 ppb	0.44525	8.12%
QC value within limits for Ni 231.604 Recovery = 109.67%							
P	214.914†	234.2	141.37 ug/L	2.762	141.37 ppb	2.762	1.95%
QC value within limits for P 214.914 Recovery = 94.25%							
Pb	220.353†	27.1	3.8360 ug/L	2.51173	3.8360 ppb	2.51173	65.48%
QC value less than the lower limit for Pb 220.353 Recovery = 38.36%							
S	181.975 Axial†	71.8	103.15 ug/L	2.874	103.15 ppb	2.874	2.79%
QC value within limits for S 181.975 Axial Recovery = 103.15%							
Sb	206.836†	28.2	10.683 ug/L	2.1438	10.683 ppb	2.1438	20.07%
QC value within limits for Sb 206.836 Recovery = 106.83%							
Se	196.026†	49.5	34.033 ug/L	3.8655	34.033 ppb	3.8655	11.36%
QC value within limits for Se 196.026 Recovery = 113.44%							
Si	251.611†	2994.9	100.16 ug/L	1.045	100.16 ppb	1.045	1.04%
QC value within limits for Si 251.611 Recovery = 100.16%							
Sn	189.927†	43.7	8.8237 ug/L	0.99977	8.8237 ppb	0.99977	11.33%
QC value within limits for Sn 189.927 Recovery = 88.24%							
Sr	421.552†	666.7	4.9977 ug/L	14.51412	4.9977 ppb	14.51412	290.42%
QC value within limits for Sr 421.552 Recovery = 99.95%							
Ti	334.940†	2932.0	4.8454 ug/L	0.08582	4.8454 ppb	0.08582	1.77%
QC value within limits for Ti 334.940 Recovery = 96.91%							
Tl	190.801†	69.2	23.279 ug/L	0.7782	23.279 ppb	0.7782	3.34%
QC value within limits for Tl 190.801 Recovery = 116.39%							
U	409.014†	1435.9	52.238 ug/L	3.5001	52.238 ppb	3.5001	6.70%
QC value within limits for U 409.014 Recovery = 104.48%							
V	292.402†	564.7	4.8477 ug/L	0.05627	4.8477 ppb	0.05627	1.16%
QC value within limits for V 292.402 Recovery = 96.95%							
Zn	213.857†	994.7	10.372 ug/L	0.1600	10.372 ppb	0.1600	1.54%
QC value within limits for Zn 213.857 Recovery = 103.72%							
SiO2†		2994.6	213.18 ug/L	2.709	213.18 ppb	2.709	1.27%
QC value within limits for SiO2 Recovery = 100.08%							
QC Failed. Continue with analysis.							

Sequence No.: 9

Sample ID: IC5A

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 2/19/2010 17:25:46

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	3362.3	3362.3	95.1 %		17:27:59
1	Y RADIAL	3699.4	3699.4	92.52 %		17:27:59
1	Al 396.153Radial†	486863.2	512245.7	498020 ug/L	498020 ppb	17:27:39
1	Ca 317.933Radial†	201569.5	212000.2	463120 ug/L	463120 ppb	17:27:39
1	Fe 238.204 Radial†	11717.5	12316.5	178170 ug/L	178170 ppb	17:27:59
1	K 766.490 Radial†	2754.2	-247.0	-201.42 ug/L	-201.42 ppb	17:27:39
1	Mg 279.077 IEC†	8835.5	9291.4	471990 ug/L	471990 ppb	17:27:59
1	Na 589.592 Radial†	4529.1	736.9	252.88 ug/L	252.88 ppb	17:27:59
1	Sr 421.552†	760.8	-641.2	-8.2658 ug/L	-8.2658 ppb	17:27:59
1	Sc 361.383	668470.6	668470.6	88.972 %		17:28:56
1	Y 371.029	517606.6	517606.6	87.959 %		17:28:56
1	Ag 328.068†	-8029.2	-9350.8	0.0448 ug/L	0.0448 ppb	17:28:56
1	As 188.979†	-90.7	-81.2	3.9606 ug/L	3.9606 ppb	17:29:16
1	B 249.677†	401.0	892.6	-6.7761 ug/L	-6.7761 ppb	17:28:56
1	Ba 233.527†	216.4	98.2	6.2937 ug/L	6.2937 ppb	17:29:16
1	Be 313.107†	-3489.7	433.5	0.1215 ug/L	0.1215 ppb	17:28:56
1	Cd 226.502†	1150.0	1487.7	1.2770 ug/L	1.2770 ppb	17:29:16
1	Co 228.616†	-12.3	56.5	-1.3276 ug/L	-1.3276 ppb	17:29:16
1	Cr 267.716†	-1205.4	-1432.6	-1.7746 ug/L	-1.7746 ppb	17:29:16
1	Cu 324.752†	4329.0	-1586.6	4.4610 ug/L	4.4610 ppb	17:28:56
1	Mn 257.610†	2145.9	1940.5	0.5877 ug/L	0.5877 ppb	17:28:56
1	Mo 202.031†	-204.6	-239.9	-0.2885 ug/L	-0.2885 ppb	17:29:16
1	Ni 231.604†	224.2	172.8	4.9157 ug/L	4.9157 ppb	17:29:16
1	P 214.914†	197.5	10.9	-12.441 ug/L	-12.441 ppb	17:29:16
1	Pb 220.353†	-683.8	-789.4	18.784 ug/L	18.784 ppb	17:29:16
1	S 181.975 Axial†	55.9	25.4	-56.820 ug/L	-56.820 ppb	17:29:16
1	Sb 206.836†	81.9	55.7	3.5407 ug/L	3.5407 ppb	17:29:16
1	Se 196.026†	-816.5	-888.5	71.521 ug/L	71.521 ppb	17:29:16
1	Si 251.611†	461.4	22.0	0.9791 ug/L	0.9791 ppb	17:29:16
1	Sn 189.927†	-327.4	-383.3	-5.1157 ug/L	-5.1157 ppb	17:29:16
1	Ti 334.940†	-12786.1	-12891.0	2.1338 ug/L	2.1338 ppb	17:28:56
1	Tl 190.801†	-53.4	-27.4	-9.4104 ug/L	-9.4104 ppb	17:29:16
1	U 409.014†	-1536.5	1336.1	28.360 ug/L	28.360 ppb	17:28:56
1	V 292.402†	308.1	2038.9	-0.2862 ug/L	-0.2862 ppb	17:29:16
1	Zn 213.857†	2878.3	2591.3	0.5054 ug/L	0.5054 ppb	17:29:16
1	SiO2†	445.7	8.7	1.1557 ug/L	1.1557 ppb	17:30:13
2	Sc Radial	3333.4	3333.4	94.2 %		17:28:24
2	Y RADIAL	3645.1	3645.1	91.16 %		17:28:24
2	Al 396.153Radial†	486886.7	516716.9	502360 ug/L	502360 ppb	17:28:04
2	Ca 317.933Radial†	201492.6	213759.4	466960 ug/L	466960 ppb	17:28:04
2	Fe 238.204 Radial†	11598.0	12296.7	177890 ug/L	177890 ppb	17:28:24
2	K 766.490 Radial†	2712.1	-266.5	-206.35 ug/L	-206.35 ppb	17:28:04
2	Mg 279.077 IEC†	8731.1	9261.3	470460 ug/L	470460 ppb	17:28:24
2	Na 589.592 Radial†	4474.8	720.6	247.30 ug/L	247.30 ppb	17:28:24
2	Sr 421.552†	614.3	-789.7	-9.4081 ug/L	-9.4081 ppb	17:28:24
2	Sc 361.383	672093.4	672093.4	89.454 %		17:29:22
2	Y 371.029	521324.9	521324.9	88.591 %		17:29:22
2	Ag 328.068†	-8865.2	-10236.7	-4.6824 ug/L	-4.6824 ppb	17:29:22
2	As 188.979†	-84.8	-74.2	7.1649 ug/L	7.1649 ppb	17:29:42
2	B 249.677†	356.9	841.0	-8.0124 ug/L	-8.0124 ppb	17:29:22
2	Ba 233.527†	3464.4	3727.7	37.181 ug/L	37.181 ppb	17:29:42
2	Be 313.107†	-4790.4	-999.4	-0.4411 ug/L	-0.4411 ppb	17:29:22
2	Cd 226.502†	1209.6	1547.3	2.0942 ug/L	2.0942 ppb	17:29:42
2	Co 228.616†	-0.0	70.3	-1.0016 ug/L	-1.0016 ppb	17:29:42
2	Cr 267.716†	-1110.6	-1319.3	-0.3207 ug/L	-0.3207 ppb	17:29:42
2	Cu 324.752†	3283.8	-2781.2	0.7245 ug/L	0.7245 ppb	17:29:22
2	Mn 257.610†	767.2	386.4	-1.2172 ug/L	-1.2172 ppb	17:29:22
2	Mo 202.031†	-183.7	-215.3	1.7473 ug/L	1.7473 ppb	17:29:42
2	Ni 231.604†	219.0	165.7	4.7145 ug/L	4.7145 ppb	17:29:42

2	P 214.914†	173.2	-17.5	-27.656 ug/L	-27.656 ppb	17:29:42
2	Pb 220.353†	-751.9	-861.4	9.9799 ug/L	9.9799 ppb	17:29:42
2	S 181.975 Axial†	64.5	34.8	-44.153 ug/L	-44.153 ppb	17:29:42
2	Sb 206.836†	87.1	61.0	5.4798 ug/L	5.4798 ppb	17:29:42
2	Se 196.026†	-840.6	-910.4	56.146 ug/L	56.146 ppb	17:29:42
2	Si 251.611†	495.3	57.2	2.1322 ug/L	2.1322 ppb	17:29:42
2	Sn 189.927†	-302.9	-353.9	1.4948 ug/L	1.4948 ppb	17:29:42
2	Ti 334.940†	-12953.7	-13000.9	2.5911 ug/L	2.5911 ppb	17:29:22
2	Tl 190.801†	-74.5	-50.7	-17.237 ug/L	-17.237 ppb	17:29:42
2	U 409.014†	-1556.1	1323.6	27.933 ug/L	27.933 ppb	17:29:22
2	V 292.402†	390.7	2129.4	0.4941 ug/L	0.4941 ppb	17:29:42
2	Zn 213.857†	3083.5	2803.2	2.7792 ug/L	2.7792 ppb	17:29:42
2	SiO2†	456.8	18.5	1.7962 ug/L	1.7962 ppb	17:30:18
3	Sc Radial	3331.4	3331.4	94.2 %		17:28:50
3	Y RADIAL	3669.3	3669.3	91.76 %		17:28:50
3	Al 396.153Radial†	482209.1	512066.0	497840 ug/L	497840 ppb	17:28:30
3	Ca 317.933Radial†	199248.4	211507.2	462040 ug/L	462040 ppb	17:28:30
3	Fe 238.204 Radial†	11618.1	12325.6	178300 ug/L	178300 ppb	17:28:50
3	K 766.490 Radial†	2620.6	-361.9	-223.25 ug/L	-223.25 ppb	17:28:30
3	Mg 279.077 IEC†	8743.1	9279.7	471400 ug/L	471400 ppb	17:28:50
3	Na 589.592 Radial†	8848.6	5367.1	1841.9 ug/L	1841.9 ppb	17:28:50
3	Sr 421.552†	6545.6	5507.9	37.852 ug/L	37.852 ppb	17:28:50
3	Sc 361.383	673148.5	673148.5	89.595 %		17:29:47
3	Y 371.029	522165.6	522165.6	88.734 %		17:29:47
3	Ag 328.068†	-8935.1	-10299.2	-4.8242 ug/L	-4.8242 ppb	17:29:47
3	As 188.979†	-92.5	-82.6	3.3579 ug/L	3.3579 ppb	17:30:07
3	B 249.677†	342.7	824.5	-8.4901 ug/L	-8.4901 ppb	17:29:47
3	Ba 233.527†	-412.4	-605.4	0.3097 ug/L	0.3097 ppb	17:30:07
3	Be 313.107†	-4833.2	-1038.7	-0.4586 ug/L	-0.4586 ppb	17:29:47
3	Cd 226.502†	1114.2	1438.7	0.6184 ug/L	0.6184 ppb	17:30:07
3	Co 228.616†	5.9	76.9	-0.8887 ug/L	-0.8887 ppb	17:30:07
3	Cr 267.716†	-1191.3	-1407.4	-1.4389 ug/L	-1.4389 ppb	17:30:07
3	Cu 324.752†	3388.4	-2670.3	1.0837 ug/L	1.0837 ppb	17:29:47
3	Mn 257.610†	716.2	328.0	-1.2831 ug/L	-1.2831 ppb	17:29:47
3	Mo 202.031†	-228.1	-264.6	-2.3134 ug/L	-2.3134 ppb	17:30:07
3	Ni 231.604†	216.5	162.6	4.6238 ug/L	4.6238 ppb	17:30:07
3	P 214.914†	179.0	-11.3	-25.441 ug/L	-25.441 ppb	17:30:07
3	Pb 220.353†	-686.9	-787.6	18.953 ug/L	18.953 ppb	17:30:07
3	S 181.975 Axial†	39.3	6.5	-83.996 ug/L	-83.996 ppb	17:30:07
3	Sb 206.836†	69.9	41.7	-1.6268 ug/L	-1.6268 ppb	17:30:07
3	Se 196.026†	-829.2	-896.3	66.664 ug/L	66.664 ppb	17:30:07
3	Si 251.611†	430.5	-16.0	-0.2687 ug/L	-0.2687 ppb	17:30:07
3	Sn 189.927†	-323.8	-376.7	-3.9949 ug/L	-3.9949 ppb	17:30:07
3	Ti 334.940†	-13452.9	-13535.4	0.9611 ug/L	0.9611 ppb	17:29:47
3	Tl 190.801†	-68.1	-43.4	-14.802 ug/L	-14.802 ppb	17:30:07
3	U 409.014†	-1180.5	1745.5	43.245 ug/L	43.245 ppb	17:29:47
3	V 292.402†	360.1	2094.6	0.1399 ug/L	0.1399 ppb	17:30:07
3	Zn 213.857†	2781.2	2460.4	-0.8810 ug/L	-0.8810 ppb	17:30:07
3	SiO2†	452.7	13.1	1.5210 ug/L	1.5210 ppb	17:30:23

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	671237.5	89.340 %	0.3266			0.37%
Sc Radial	3342.4	94.5 %	0.49			0.52%
Y 371.029	520365.7	88.428 %	0.4123			0.47%
Y RADIAL	3671.2	91.81 %	0.680			0.74%
Ag 328.068†	-9962.2	-3.1539 ug/L	2.77109	-3.1539 ppb	2.77109	87.86%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	513676.2	499410 ug/L	2561.6	499410 ppb	2561.6	0.51%
QC value within limits for Al 396.153Radial Recovery = 99.88%						
As 188.979†	-79.3	4.8278 ug/L	2.04631	4.8278 ppb	2.04631	42.39%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	852.7	-7.7595 ug/L	0.88451	-7.7595 ppb	0.88451	11.40%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	1073.5	14.595 ug/L	19.7877	14.595 ppb	19.7877	135.58%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-534.9	-0.2594 ug/L	0.33000	-0.2594 ppb	0.33000	127.22%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	212422.3	464040 ug/L	2586.2	464040 ppb	2586.2	0.56%

QC value within limits for Ca 317.933 Radial Recovery = 92.81%
 Cd 226.502† 1491.3 1.3299 ug/L 0.73936 1.3299 ppb 0.73936 55.60%
 QC value within limits for Cd 226.502 Recovery = Not calculated
 Co 228.616† 67.9 -1.0726 ug/L 0.22792 -1.0726 ppb 0.22792 21.25%
 QC value within limits for Co 228.616 Recovery = Not calculated
 Cr 267.716† -1386.4 -1.1781 ug/L 0.76127 -1.1781 ppb 0.76127 64.62%
 QC value within limits for Cr 267.716 Recovery = Not calculated
 Cu 324.752† -2346.0 2.0897 ug/L 2.06143 2.0897 ppb 2.06143 98.65%
 QC value within limits for Cu 324.752 Recovery = Not calculated
 Fe 238.204 Radial† 12312.9 178120 ug/L 214.0 178120 ppb 214.0 0.12%
 QC value within limits for Fe 238.204 Radial Recovery = 89.06%
 K 766.490 Radial† -291.8 -210.34 ug/L 11.449 -210.34 ppb 11.449 5.44%
 QC value within limits for K 766.490 Radial Recovery = Not calculated
 Mg 279.077 IEC† 9277.5 471280 ug/L 770.1 471280 ppb 770.1 0.16%
 QC value within limits for Mg 279.077 IEC Recovery = 94.26%
 Mn 257.610† 885.0 -0.6375 ug/L 1.06161 -0.6375 ppb 1.06161 166.52%
 QC value within limits for Mn 257.610 Recovery = Not calculated
 Mo 202.031† -239.9 -0.2848 ug/L 2.03034 -0.2848 ppb 2.03034 712.81%
 QC value within limits for Mo 202.031 Recovery = Not calculated
 Na 589.592 Radial† 2274.8 780.70 ug/L 919.044 780.70 ppb 919.044 117.72%
 QC value greater than the upper limit for Na 589.592 Radial Recovery = Not calculated
 Ni 231.604† 167.0 4.7513 ug/L 0.14942 4.7513 ppb 0.14942 3.14%
 QC value within limits for Ni 231.604 Recovery = Not calculated
 P 214.914† -6.0 -21.846 ug/L 8.2197 -21.846 ppb 8.2197 37.63%
 QC value within limits for P 214.914 Recovery = Not calculated
 Pb 220.353† -812.8 15.906 ug/L 5.1325 15.906 ppb 5.1325 32.27%
 QC value within limits for Pb 220.353 Recovery = Not calculated
 S 181.975 Axial† 22.2 -61.657 ug/L 20.3571 -61.657 ppb 20.3571 33.02%
 QC value within limits for S 181.975 Axial Recovery = Not calculated
 Sb 206.836† 52.8 2.4646 ug/L 3.67349 2.4646 ppb 3.67349 149.05%
 QC value within limits for Sb 206.836 Recovery = Not calculated
 Se 196.026† -898.4 64.777 ug/L 7.8589 64.777 ppb 7.8589 12.13%
 QC value greater than the upper limit for Se 196.026 Recovery = Not calculated
 Si 251.611† 21.1 0.9475 ug/L 1.20073 0.9475 ppb 1.20073 126.72%
 QC value within limits for Si 251.611 Recovery = Not calculated
 Sn 189.927† -371.3 -2.5386 ug/L 3.53773 -2.5386 ppb 3.53773 139.36%
 QC value within limits for Sn 189.927 Recovery = Not calculated
 Sr 421.552† 1359.0 6.7259 ug/L 26.96171 6.7259 ppb 26.96171 400.86%
 QC value within limits for Sr 421.552 Recovery = Not calculated
 Ti 334.940† -13142.4 1.8953 ug/L 0.84074 1.8953 ppb 0.84074 44.36%
 QC value within limits for Ti 334.940 Recovery = Not calculated
 Tl 190.801† -40.5 -13.816 ug/L 4.0053 -13.816 ppb 4.0053 28.99%
 QC value within limits for Tl 190.801 Recovery = Not calculated
 U 409.014† 1468.4 33.179 ug/L 8.7195 33.179 ppb 8.7195 26.28%
 QC value within limits for U 409.014 Recovery = Not calculated
 V 292.402† 2087.7 0.1160 ug/L 0.39071 0.1160 ppb 0.39071 336.92%
 QC value within limits for V 292.402 Recovery = Not calculated
 Zn 213.857† 2618.3 0.8012 ug/L 1.84794 0.8012 ppb 1.84794 230.65%
 QC value within limits for Zn 213.857 Recovery = Not calculated
 SiO2† 13.4 1.4910 ug/L 0.32126 1.4910 ppb 0.32126 21.55%
 QC value within limits for SiO2 Recovery = Not calculated
 QC Failed. Continue with analysis.

Sequence No.: 10
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 14
 Date Collected: 2/19/2010 17:32:34
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	3448.6	3448.6	97.5 %			17:34:47
1	Y RADIAL	3832.7	3832.7	95.85 %			17:34:47
1	Al 396.153Radial†	500124.4	513039.1	498770 ug/L		498770 ppb	17:34:27
1	Ca 317.933Radial†	206223.8	211471.2	461960 ug/L		461960 ppb	17:34:27
1	Fe 238.204 Radial†	11919.9	12215.8	176730 ug/L		176730 ppb	17:34:47
1	K 766.490 Radial†	29242.8	26847.1	4887.4 ug/L		4887.4 ppb	17:34:27
1	Mg 279.077 IEC†	8896.0	9121.1	463340 ug/L		463340 ppb	17:34:47
1	Na 589.592 Radial†	18600.1	15048.8	5164.6 ug/L		5164.6 ppb	17:34:27
1	Sr 421.552†	63357.0	63537.3	472.99 ug/L		472.99 ppb	17:34:27
1	Sc 361.383	680295.7	680295.7	90.546 %			17:35:45
1	Y 371.029	528651.7	528651.7	89.836 %			17:35:45
1	Ag 328.068†	38180.4	41840.6	266.44 ug/L		266.44 ppb	17:35:45
1	As 188.979†	868.1	979.4	498.19 ug/L		498.19 ppb	17:36:05
1	B 249.677†	18419.3	20784.5	486.12 ug/L		486.12 ppb	17:35:45
1	Ba 233.527†	49985.7	55059.8	475.18 ug/L		475.18 ppb	17:35:45
1	Be 313.107†	545921.2	607278.3	239.35 ug/L		239.35 ppb	17:35:45
1	Cd 226.502†	31942.7	35473.1	451.10 ug/L		451.10 ppb	17:36:05
1	Co 228.616†	17463.8	19357.5	421.71 ug/L		421.71 ppb	17:36:05
1	Cr 267.716†	31465.4	34672.9	470.47 ug/L		470.47 ppb	17:35:45
1	Cu 324.752†	157583.3	167584.9	531.10 ug/L		531.10 ppb	17:35:45
1	Mn 257.610†	352785.1	389149.2	459.00 ug/L		459.00 ppb	17:35:45
1	Mo 202.031†	5021.3	5535.7	472.18 ug/L		472.18 ppb	17:36:05
1	Ni 231.604†	14007.3	15390.8	437.63 ug/L		437.63 ppb	17:36:05
1	P 214.914†	3719.3	3896.5	2262.9 ug/L		2262.9 ppb	17:36:05
1	Pb 220.353†	2253.5	2468.0	472.29 ug/L		472.29 ppb	17:36:05
1	S 181.975 Axial†	1636.5	1770.0	2452.2 ug/L		2452.2 ppb	17:36:05
1	Sb 206.836†	1319.4	1420.8	521.10 ug/L		521.10 ppb	17:36:05
1	Se 196.026†	2413.1	2694.3	2495.6 ug/L		2495.6 ppb	17:36:05
1	Si 251.611†	135291.2	148920.9	4980.8 ug/L		4980.8 ppb	17:35:45
1	Sn 189.927†	1800.2	1972.9	469.12 ug/L		469.12 ppb	17:36:05
1	Ti 334.940†	255115.2	283232.5	493.90 ug/L		493.90 ppb	17:35:45
1	Tl 190.801†	1107.6	1255.8	424.88 ug/L		424.88 ppb	17:36:05
1	U 409.014†	11837.0	16136.1	566.14 ug/L		566.14 ppb	17:35:45
1	V 292.402†	55418.1	62897.2	505.20 ug/L		505.20 ppb	17:35:45
1	Zn 213.857†	44428.4	48423.5	478.23 ug/L		478.23 ppb	17:35:45
1	SiO2†	135851.6	149544.1	10647 ug/L		10647 ppb	17:37:02
2	Sc Radial	3443.5	3443.5	97.4 %			17:35:12
2	Y RADIAL	3843.8	3843.8	96.13 %			17:35:12
2	Al 396.153Radial†	495215.4	508749.3	494600 ug/L		494600 ppb	17:34:52
2	Ca 317.933Radial†	204877.8	210398.9	459620 ug/L		459620 ppb	17:34:52
2	Fe 238.204 Radial†	11943.6	12258.1	177340 ug/L		177340 ppb	17:35:12
2	K 766.490 Radial†	29110.3	26755.1	4871.0 ug/L		4871.0 ppb	17:34:52
2	Mg 279.077 IEC†	8909.0	9147.8	464700 ug/L		464700 ppb	17:35:12
2	Na 589.592 Radial†	18174.9	14640.1	5024.3 ug/L		5024.3 ppb	17:34:52
2	Sr 421.552†	62214.9	62459.5	464.92 ug/L		464.92 ppb	17:34:52
2	Sc 361.383	685097.6	685097.6	91.185 %			17:36:11
2	Y 371.029	532819.7	532819.7	90.544 %			17:36:11
2	Ag 328.068†	38650.3	42060.4	267.79 ug/L		267.79 ppb	17:36:11
2	As 188.979†	878.5	984.1	500.49 ug/L		500.49 ppb	17:36:31
2	B 249.677†	18650.1	20895.0	488.77 ug/L		488.77 ppb	17:36:11
2	Ba 233.527†	49919.8	54600.6	471.28 ug/L		471.28 ppb	17:36:11
2	Be 313.107†	548772.5	606179.4	238.92 ug/L		238.92 ppb	17:36:11
2	Cd 226.502†	31968.9	35254.6	448.15 ug/L		448.15 ppb	17:36:31
2	Co 228.616†	17468.0	19226.9	418.84 ug/L		418.84 ppb	17:36:31
2	Cr 267.716†	31399.2	34356.9	466.39 ug/L		466.39 ppb	17:36:11
2	Cu 324.752†	159552.6	168524.8	534.06 ug/L		534.06 ppb	17:36:11
2	Mn 257.610†	352886.9	386530.0	455.90 ug/L		455.90 ppb	17:36:11
2	Mo 202.031†	5005.6	5479.6	467.61 ug/L		467.61 ppb	17:36:31
2	Ni 231.604†	14005.7	15280.6	434.49 ug/L		434.49 ppb	17:36:31

2	P 214.914†	3723.5	3872.3	2245.9 ug/L	2245.9 ppb	17:36:31
2	Pb 220.353†	2273.6	2472.5	471.81 ug/L	471.81 ppb	17:36:31
2	S 181.975 Axial†	1638.5	1759.5	2437.8 ug/L	2437.8 ppb	17:36:31
2	Sb 206.836†	1352.7	1447.1	530.61 ug/L	530.61 ppb	17:36:31
2	Se 196.026†	2430.2	2694.5	2497.3 ug/L	2497.3 ppb	17:36:31
2	Si 251.611†	135857.4	148494.5	4966.6 ug/L	4966.6 ppb	17:36:11
2	Sn 189.927†	1781.1	1937.9	461.63 ug/L	461.63 ppb	17:36:31
2	Ti 334.940†	255533.3	281716.2	490.95 ug/L	490.95 ppb	17:36:11
2	Tl 190.801†	1104.2	1243.5	420.75 ug/L	420.75 ppb	17:36:31
2	U 409.014†	11962.4	16181.9	567.74 ug/L	567.74 ppb	17:36:11
2	V 292.402†	55541.4	62603.4	502.67 ug/L	502.67 ppb	17:36:11
2	Zn 213.857†	44668.2	48342.6	477.31 ug/L	477.31 ppb	17:36:11
2	SiO2†	137061.4	149819.3	10667 ug/L	10667 ppb	17:37:08
3	Sc Radial	3475.6	3475.6	98.3 %		17:35:37
3	Y RADIAL	3858.3	3858.3	96.49 %		17:35:37
3	Al 396.153Radial†	494912.8	503744.6	489730 ug/L	489730 ppb	17:35:17
3	Ca 317.933Radial†	204283.2	207850.7	454050 ug/L	454050 ppb	17:35:17
3	Fe 238.204 Radial†	11965.1	12166.7	176020 ug/L	176020 ppb	17:35:37
3	K 766.490 Radial†	29124.7	26493.6	4823.7 ug/L	4823.7 ppb	17:35:17
3	Mg 279.077 IEC†	8938.9	9093.7	461950 ug/L	461950 ppb	17:35:37
3	Na 589.592 Radial†	18238.7	14532.7	4987.5 ug/L	4987.5 ppb	17:35:17
3	Sr 421.552†	62320.4	61976.8	461.35 ug/L	461.35 ppb	17:35:17
3	Sc 361.383	675007.2	675007.2	89.842 %		17:36:37
3	Y 371.029	522562.1	522562.1	88.801 %		17:36:37
3	Ag 328.068†	38055.0	42031.3	267.32 ug/L	267.32 ppb	17:36:37
3	As 188.979†	858.3	976.0	496.45 ug/L	496.45 ppb	17:36:57
3	B 249.677†	18474.1	21004.9	491.70 ug/L	491.70 ppb	17:36:37
3	Ba 233.527†	49526.4	54981.1	474.49 ug/L	474.49 ppb	17:36:37
3	Be 313.107†	544954.9	610926.5	240.79 ug/L	240.79 ppb	17:36:37
3	Cd 226.502†	31765.1	35551.8	452.22 ug/L	452.22 ppb	17:36:57
3	Co 228.616†	17418.7	19458.5	423.94 ug/L	423.94 ppb	17:36:57
3	Cr 267.716†	31181.6	34629.4	469.83 ug/L	469.83 ppb	17:36:37
3	Cu 324.752†	157653.6	169026.6	535.56 ug/L	535.56 ppb	17:36:37
3	Mn 257.610†	350841.5	390038.4	460.03 ug/L	460.03 ppb	17:36:37
3	Mo 202.031†	4994.7	5549.5	473.16 ug/L	473.16 ppb	17:36:57
3	Ni 231.604†	13964.7	15464.5	439.72 ug/L	439.72 ppb	17:36:57
3	P 214.914†	3726.4	3936.6	2284.8 ug/L	2284.8 ppb	17:36:57
3	Pb 220.353†	2250.2	2483.7	472.07 ug/L	472.07 ppb	17:36:57
3	S 181.975 Axial†	1652.6	1802.0	2499.9 ug/L	2499.9 ppb	17:36:57
3	Sb 206.836†	1325.2	1438.7	527.92 ug/L	527.92 ppb	17:36:57
3	Se 196.026†	2409.8	2711.5	2503.7 ug/L	2503.7 ppb	17:36:57
3	Si 251.611†	134942.8	149703.7	5007.0 ug/L	5007.0 ppb	17:36:37
3	Sn 189.927†	1788.3	1975.1	468.21 ug/L	468.21 ppb	17:36:57
3	Ti 334.940†	253682.4	283845.1	493.97 ug/L	493.97 ppb	17:36:37
3	Tl 190.801†	1099.0	1255.9	424.93 ug/L	424.93 ppb	17:36:57
3	U 409.014†	11697.6	16083.3	564.30 ug/L	564.30 ppb	17:36:37
3	V 292.402†	54941.0	62845.7	504.86 ug/L	504.86 ppb	17:36:37
3	Zn 213.857†	44293.9	48658.3	480.78 ug/L	480.78 ppb	17:36:37
3	SiO2†	138977.1	154198.4	10979 ug/L	10979 ppb	17:37:13

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	680133.5	90.524 %		0.6718			0.74%
Sc Radial	3455.9	97.7 %		0.49			0.50%
Y 371.029	528011.2	89.727 %		0.8766			0.98%
Y RADIAL	3844.9	96.16 %		0.321			0.33%
Ag 328.068†	41977.4	267.18 ug/L		0.684	267.18 ppb	0.684	0.26%
QC value within limits for Ag 328.068 Recovery = 106.87%							
Al 396.153Radial†	508511.0	494360 ug/L		4522.7	494360 ppb	4522.7	0.91%
QC value within limits for Al 396.153Radial Recovery = 98.87%							
As 188.979†	979.9	498.38 ug/L		2.029	498.38 ppb	2.029	0.41%
QC value within limits for As 188.979 Recovery = 99.68%							
B 249.677†	20894.8	488.86 ug/L		2.791	488.86 ppb	2.791	0.57%
QC value within limits for B 249.677 Recovery = 97.77%							
Ba 233.527†	54880.5	473.65 ug/L		2.078	473.65 ppb	2.078	0.44%
QC value within limits for Ba 233.527 Recovery = 94.73%							
Be 313.107†	608128.1	239.68 ug/L		0.979	239.68 ppb	0.979	0.41%
QC value within limits for Be 313.107 Recovery = 95.87%							
Ca 317.933Radial†	209906.9	458540 ug/L		4062.5	458540 ppb	4062.5	0.89%

QC value within limits for Ca 317.933 Radial Recovery = 91.71%							
Cd	226.502†	35426.5	450.49 ug/L	2.103	450.49 ppb	2.103	0.47%
QC value within limits for Cd 226.502 Recovery = 90.10%							
Co	228.616†	19347.7	421.50 ug/L	2.556	421.50 ppb	2.556	0.61%
QC value within limits for Co 228.616 Recovery = 84.30%							
Cr	267.716†	34553.1	468.90 ug/L	2.193	468.90 ppb	2.193	0.47%
QC value within limits for Cr 267.716 Recovery = 93.78%							
Cu	324.752†	168378.8	533.58 ug/L	2.267	533.58 ppb	2.267	0.42%
QC value within limits for Cu 324.752 Recovery = 106.72%							
Fe	238.204 Radial†	12213.5	176700 ug/L	661.6	176700 ppb	661.6	0.37%
QC value within limits for Fe 238.204 Radial Recovery = 88.35%							
K	766.490 Radial†	26698.6	4860.7 ug/L	33.07	4860.7 ppb	33.07	0.68%
QC value within limits for K 766.490 Radial Recovery = 97.21%							
Mg	279.077 IEC†	9120.9	463330 ug/L	1372.0	463330 ppb	1372.0	0.30%
QC value within limits for Mg 279.077 IEC Recovery = 92.67%							
Mn	257.610†	388572.5	458.31 ug/L	2.150	458.31 ppb	2.150	0.47%
QC value within limits for Mn 257.610 Recovery = 91.66%							
Mo	202.031†	5521.6	470.98 ug/L	2.962	470.98 ppb	2.962	0.63%
QC value within limits for Mo 202.031 Recovery = 94.20%							
Na	589.592 Radial†	14740.5	5058.8 ug/L	93.46	5058.8 ppb	93.46	1.85%
QC value within limits for Na 589.592 Radial Recovery = 101.18%							
Ni	231.604†	15378.6	437.28 ug/L	2.632	437.28 ppb	2.632	0.60%
QC value within limits for Ni 231.604 Recovery = 87.46%							
P	214.914†	3901.8	2264.6 ug/L	19.49	2264.6 ppb	19.49	0.86%
QC value within limits for P 214.914 Recovery = 90.58%							
Pb	220.353†	2474.7	472.05 ug/L	0.240	472.05 ppb	0.240	0.05%
QC value within limits for Pb 220.353 Recovery = 94.41%							
S	181.975 Axial†	1777.2	2463.3 ug/L	32.50	2463.3 ppb	32.50	1.32%
QC value within limits for S 181.975 Axial Recovery = 98.53%							
Sb	206.836†	1435.5	526.54 ug/L	4.902	526.54 ppb	4.902	0.93%
QC value within limits for Sb 206.836 Recovery = 105.31%							
Se	196.026†	2700.1	2498.9 ug/L	4.29	2498.9 ppb	4.29	0.17%
QC value within limits for Se 196.026 Recovery = 99.96%							
Si	251.611†	149039.7	4984.8 ug/L	20.50	4984.8 ppb	20.50	0.41%
QC value within limits for Si 251.611 Recovery = 99.70%							
Sn	189.927†	1962.0	466.32 ug/L	4.085	466.32 ppb	4.085	0.88%
QC value within limits for Sn 189.927 Recovery = 93.26%							
Sr	421.552†	62657.9	466.42 ug/L	5.963	466.42 ppb	5.963	1.28%
QC value within limits for Sr 421.552 Recovery = 93.28%							
Ti	334.940†	282931.3	492.94 ug/L	1.719	492.94 ppb	1.719	0.35%
QC value within limits for Ti 334.940 Recovery = 98.59%							
Tl	190.801†	1251.7	423.52 ug/L	2.398	423.52 ppb	2.398	0.57%
QC value within limits for Tl 190.801 Recovery = 84.70%							
U	409.014†	16133.8	566.06 ug/L	1.725	566.06 ppb	1.725	0.30%
QC value within limits for U 409.014 Recovery = 113.21%							
V	292.402†	62782.1	504.24 ug/L	1.372	504.24 ppb	1.372	0.27%
QC value within limits for V 292.402 Recovery = 100.85%							
Zn	213.857†	48474.8	478.77 ug/L	1.800	478.77 ppb	1.800	0.38%
QC value within limits for Zn 213.857 Recovery = 95.75%							
SiO2†		151187.3	10764 ug/L	186.1	10764 ppb	186.1	1.73%
QC value within limits for SiO2 Recovery = 100.65%							

All analyte(s) passed QC.

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

Autosampler Location: 15
 Date Collected: 2/19/2010 17:39:24
 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	3382.4	3382.4	95.6 %		17:41:37
1	Y RADIAL	3781.0	3781.0	94.56 %		17:41:37
1	Al 396.153Radial†	486891.8	509241.8	495100 ug/L	495100 ppb	17:41:17
1	Ca 317.933Radial†	200529.4	209656.5	458000 ug/L	458000 ppb	17:41:17
1	Fe 238.204 Radial†	27771.4	29030.6	419960 ug/L	419960 ppb	17:41:37
1	K 766.490 Radial†	2409.9	-624.2	-464.91 ug/L	-464.91 ppb	17:41:17
1	Mg 279.077 IEC†	8666.8	9059.9	459980 ug/L	459980 ppb	17:41:37
1	Na 589.592 Radial†	1393039.5	1452633.2	498530 ug/L	498530 ppb	17:41:17
1	Sr 421.552†	5644.0	4460.4	30.026 ug/L	30.026 ppb	17:41:37
1	Sc 361.383	657567.0	657567.0	87.521 %		17:42:35
1	Y 371.029	512786.6	512786.6	87.140 %		17:42:35
1	Ag 328.068†	-20901.9	-24208.5	-14.816 ug/L	-14.816 ppb	17:42:35
1	As 188.979†	-173.6	-177.7	16.000 ug/L	16.000 ppb	17:42:55
1	B 249.677†	1318.3	1948.3	-19.848 ug/L	-19.848 ppb	17:42:35
1	Ba 233.527†	-1298.7	-1628.9	-1.0150 ug/L	-1.0150 ppb	17:42:55
1	Be 313.107†	-9691.0	-6717.0	-2.6730 ug/L	-2.6730 ppb	17:42:35
1	Cd 226.502†	2908.0	3517.8	6.0812 ug/L	6.0812 ppb	17:42:55
1	Co 228.616†	206.6	306.3	0.5894 ug/L	0.5894 ppb	17:42:55
1	Cr 267.716†	-1187.2	-1434.2	15.233 ug/L	15.233 ppb	17:42:55
1	Cu 324.752†	761.5	-5582.1	-3.5492 ug/L	-3.5492 ppb	17:42:35
1	Mn 257.610†	-19970.8	-23289.7	-4.9067 ug/L	-4.9067 ppb	17:42:35
1	Mo 202.031†	-422.0	-492.2	-2.2220 ug/L	-2.2220 ppb	17:42:55
1	Ni 231.604†	247.8	204.0	5.8000 ug/L	5.8000 ppb	17:42:55
1	P 214.914†	501.7	362.1	9.1177 ug/L	9.1177 ppb	17:42:55
1	Pb 220.353†	-469.0	-556.7	40.789 ug/L	40.789 ppb	17:42:55
1	S 181.975 Axial†	74.1	47.3	-24.827 ug/L	-24.827 ppb	17:42:55
1	Sb 206.836†	74.4	48.6	-2.1656 ug/L	-2.1656 ppb	17:42:55
1	Se 196.026†	-1891.2	-2131.5	65.291 ug/L	65.291 ppb	17:42:55
1	Si 251.611†	-442.4	-1002.0	-33.054 ug/L	-33.054 ppb	17:42:55
1	Sn 189.927†	-346.8	-411.6	-25.605 ug/L	-25.605 ppb	17:42:55
1	Ti 334.940†	-9971.1	-9912.9	0.7194 ug/L	0.7194 ppb	17:42:35
1	Tl 190.801†	-76.2	-54.6	-18.677 ug/L	-18.677 ppb	17:42:55
1	U 409.014†	361666.3	416298.4	15104 ug/L	15104 ppb	17:42:35
1	V 292.402†	2049.0	4033.9	9.2181 ug/L	9.2181 ppb	17:42:55
1	Zn 213.857†	5064.0	5142.3	-8.8958 ug/L	-8.8958 ppb	17:42:55
1	SiO2†	-504.0	-1068.1	-75.039 ug/L	-75.039 ppb	17:43:52
2	Sc Radial	3379.8	3379.8	95.6 %		17:42:02
2	Y RADIAL	3771.1	3771.1	94.31 %		17:42:02
2	Al 396.153Radial†	489027.5	511866.9	497650 ug/L	497650 ppb	17:41:42
2	Ca 317.933Radial†	201695.4	211037.4	461010 ug/L	461010 ppb	17:41:42
2	Fe 238.204 Radial†	27756.8	29037.6	420060 ug/L	420060 ppb	17:42:02
2	K 766.490 Radial†	3839.7	874.0	-185.55 ug/L	-185.55 ppb	17:41:42
2	Mg 279.077 IEC†	8699.6	9101.2	462070 ug/L	462070 ppb	17:42:02
2	Na 589.592 Radial†	1400191.7	1461234.4	501480 ug/L	501480 ppb	17:41:42
2	Sr 421.552†	823.4	-579.8	-7.7899 ug/L	-7.7899 ppb	17:42:02
2	Sc 361.383	660423.7	660423.7	87.901 %		17:43:01
2	Y 371.029	517280.0	517280.0	87.904 %		17:43:01
2	Ag 328.068†	-20802.1	-23991.8	-13.728 ug/L	-13.728 ppb	17:43:01
2	As 188.979†	-184.1	-188.8	10.868 ug/L	10.868 ppb	17:43:21
2	B 249.677†	1261.3	1876.9	-21.636 ug/L	-21.636 ppb	17:43:01
2	Ba 233.527†	1182.8	1200.6	23.072 ug/L	23.072 ppb	17:43:21
2	Be 313.107†	-9598.0	-6563.3	-2.6138 ug/L	-2.6138 ppb	17:43:01
2	Cd 226.502†	3006.7	3615.7	7.3713 ug/L	7.3713 ppb	17:43:21
2	Co 228.616†	210.7	310.0	0.6770 ug/L	0.6770 ppb	17:43:21
2	Cr 267.716†	-1134.9	-1368.9	16.085 ug/L	16.085 ppb	17:43:21
2	Cu 324.752†	644.6	-5718.8	-3.9866 ug/L	-3.9866 ppb	17:43:01
2	Mn 257.610†	-20313.0	-23580.3	-5.3264 ug/L	-5.3264 ppb	17:43:01
2	Mo 202.031†	-437.3	-507.5	-3.4297 ug/L	-3.4297 ppb	17:43:21
2	Ni 231.604†	279.4	238.7	6.7863 ug/L	6.7863 ppb	17:43:21

2	P 214.914†	482.3	337.6	-5.2182 ug/L	-5.2182 ppb	17:43:21
2	Pb 220.353†	-476.0	-562.4	40.715 ug/L	40.715 ppb	17:43:21
2	S 181.975 Axial†	62.7	33.9	-44.494 ug/L	-44.494 ppb	17:43:21
2	Sb 206.836†	65.7	38.4	-5.9961 ug/L	-5.9961 ppb	17:43:21
2	Se 196.026†	-1917.4	-2152.1	52.017 ug/L	52.017 ppb	17:43:21
2	Si 251.611†	-407.0	-959.5	-31.617 ug/L	-31.617 ppb	17:43:21
2	Sn 189.927†	-345.8	-408.7	-24.492 ug/L	-24.492 ppb	17:43:21
2	Ti 334.940†	-10271.7	-10205.6	0.4532 ug/L	0.4532 ppb	17:43:01
2	Tl 190.801†	-95.3	-75.9	-25.848 ug/L	-25.848 ppb	17:43:21
2	U 409.014†	363961.2	417121.7	15134 ug/L	15134 ppb	17:43:01
2	V 292.402†	2048.7	4023.4	9.1981 ug/L	9.1981 ppb	17:43:21
2	Zn 213.857†	5358.3	5452.0	-5.6662 ug/L	-5.6662 ppb	17:43:21
2	SiO2†	-452.7	-1007.3	-70.667 ug/L	-70.667 ppb	17:43:57
3	Sc Radial	3347.6	3347.6	94.6 %		17:42:28
3	Y RADIAL	3732.5	3732.5	93.34 %		17:42:28
3	Al 396.153Radial†	491552.7	519453.7	505030 ug/L	505030 ppb	17:42:08
3	Ca 317.933Radial†	202566.8	213986.8	467460 ug/L	467460 ppb	17:42:08
3	Fe 238.204 Radial†	27496.8	29042.1	420130 ug/L	420130 ppb	17:42:28
3	K 766.490 Radial†	2531.9	-469.2	-442.07 ug/L	-442.07 ppb	17:42:08
3	Mg 279.077 IEC†	8584.8	9067.4	460350 ug/L	460350 ppb	17:42:28
3	Na 589.592 Radial†	1400900.0	1476066.5	506570 ug/L	506570 ppb	17:42:08
3	Sr 421.552†	1794.5	454.5	-0.0826 ug/L	-0.0826 ppb	17:42:28
3	Sc 361.383	650965.7	650965.7	86.642 %		17:43:26
3	Y 371.029	507788.3	507788.3	86.291 %		17:43:26
3	Ag 328.068†	-20533.6	-24025.7	-13.977 ug/L	-13.977 ppb	17:43:26
3	As 188.979†	-196.9	-206.6	2.6807 ug/L	2.6807 ppb	17:43:46
3	B 249.677†	1256.8	1892.6	-21.259 ug/L	-21.259 ppb	17:43:26
3	Ba 233.527†	-1440.3	-1807.4	-2.5277 ug/L	-2.5277 ppb	17:43:46
3	Be 313.107†	-9617.7	-6744.7	-2.6808 ug/L	-2.6808 ppb	17:43:26
3	Cd 226.502†	2944.9	3594.1	7.0827 ug/L	7.0827 ppb	17:43:46
3	Co 228.616†	230.9	336.8	1.2419 ug/L	1.2419 ppb	17:43:46
3	Cr 267.716†	-1204.3	-1467.8	14.796 ug/L	14.796 ppb	17:43:46
3	Cu 324.752†	1047.8	-5242.8	-2.5070 ug/L	-2.5070 ppb	17:43:26
3	Mn 257.610†	-19970.5	-23520.7	-5.1791 ug/L	-5.1791 ppb	17:43:26
3	Mo 202.031†	-460.8	-541.8	-6.1546 ug/L	-6.1546 ppb	17:43:46
3	Ni 231.604†	303.4	271.0	7.7060 ug/L	7.7060 ppb	17:43:46
3	P 214.914†	521.8	391.2	28.991 ug/L	28.991 ppb	17:43:46
3	Pb 220.353†	-455.7	-546.9	44.852 ug/L	44.852 ppb	17:43:46
3	S 181.975 Axial†	81.9	57.2	-12.423 ug/L	-12.423 ppb	17:43:46
3	Sb 206.836†	51.2	22.7	-12.065 ug/L	-12.065 ppb	17:43:46
3	Se 196.026†	-1905.4	-2169.9	41.015 ug/L	41.015 ppb	17:43:46
3	Si 251.611†	-474.8	-1044.5	-34.429 ug/L	-34.429 ppb	17:43:46
3	Sn 189.927†	-354.5	-424.5	-26.531 ug/L	-26.531 ppb	17:43:46
3	Ti 334.940†	-9161.9	-9094.5	3.2974 ug/L	3.2974 ppb	17:43:26
3	Tl 190.801†	-68.7	-46.8	-16.057 ug/L	-16.057 ppb	17:43:46
3	U 409.014†	359040.9	417458.7	15146 ug/L	15146 ppb	17:43:26
3	V 292.402†	2111.6	4129.9	10.010 ug/L	10.010 ppb	17:43:46
3	Zn 213.857†	5088.1	5228.8	-8.0261 ug/L	-8.0261 ppb	17:43:46
3	SiO2†	-424.3	-981.9	-68.782 ug/L	-68.782 ppb	17:44:02

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	656318.8	87.355 %		0.6457			0.74%
Sc Radial	3369.9	95.3 %		0.55			0.57%
Y 371.029	512618.3	87.111 %		0.8069			0.93%
Y RADIAL	3761.5	94.07 %		0.641			0.68%
Ag 328.068†	-24075.3	-14.174 ug/L		0.5702	-14.174 ppb	0.5702	4.02%
Al 396.153Radial†	513520.8	499260 ug/L		5155.9	499260 ppb	5155.9	1.03%
QC value within limits for Al 396.153Radial Recovery = 99.85%							
As 188.979†	-191.0	9.8496 ug/L		6.71802	9.8496 ppb	6.71802	68.21%
B 249.677†	1905.9	-20.914 ug/L		0.9426	-20.914 ppb	0.9426	4.51%
Ba 233.527†	-745.2	6.5099 ug/L		14.36346	6.5099 ppb	14.36346	220.64%
Be 313.107†	-6675.0	-2.6559 ug/L		0.03663	-2.6559 ppb	0.03663	1.38%
Ca 317.933Radial†	211560.2	462160 ug/L		4832.2	462160 ppb	4832.2	1.05%
QC value within limits for Ca 317.933Radial Recovery = 92.43%							
Cd 226.502†	3575.9	6.8451 ug/L		0.67706	6.8451 ppb	0.67706	9.89%
Co 228.616†	317.7	0.8361 ug/L		0.35412	0.8361 ppb	0.35412	42.35%
Cr 267.716†	-1423.6	15.371 ug/L		0.6555	15.371 ppb	0.6555	4.26%
Cu 324.752†	-5514.6	-3.3476 ug/L		0.76015	-3.3476 ppb	0.76015	22.71%

Fe 238.204 Radial†	29036.7	420050 ug/L	84.1	420050 ppb	84.1	0.02%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 84.01%						
K 766.490 Radial†	-73.1	-364.18 ug/L	155.118	-364.18 ppb	155.118	42.59%
Mg 279.077 IEC†	9076.2	460800 ug/L	1118.4	460800 ppb	1118.4	0.24%
QC value within limits for Mg 279.077 IEC Recovery = 92.16%						
Mn 257.610†	-23463.6	-5.1374 ug/L	0.21295	-5.1374 ppb	0.21295	4.15%
Mo 202.031†	-513.8	-3.9354 ug/L	2.01444	-3.9354 ppb	2.01444	51.19%
Na 589.592 Radial†	1463311.4	502190 ug/L	4068.1	502190 ppb	4068.1	0.81%
QC value within limits for Na 589.592 Radial Recovery = 100.44%						
Ni 231.604†	237.9	6.7641 ug/L	0.95323	6.7641 ppb	0.95323	14.09%
P 214.914†	363.6	10.964 ug/L	17.1793	10.964 ppb	17.1793	156.69%
Pb 220.353†	-555.3	42.119 ug/L	2.3672	42.119 ppb	2.3672	5.62%
S 181.975 Axial†	46.1	-27.248 ug/L	16.1717	-27.248 ppb	16.1717	59.35%
Sb 206.836†	36.6	-6.7421 ug/L	4.99153	-6.7421 ppb	4.99153	74.04%
Se 196.026†	-2151.1	52.775 ug/L	12.1558	52.775 ppb	12.1558	23.03%
Si 251.611†	-1002.0	-33.033 ug/L	1.4061	-33.033 ppb	1.4061	4.26%
Sn 189.927†	-414.9	-25.543 ug/L	1.0209	-25.543 ppb	1.0209	4.00%
Sr 421.552†	1445.0	7.3846 ug/L	19.98343	7.3846 ppb	19.98343	270.61%
Ti 334.940†	-9737.6	1.4900 ug/L	1.57095	1.4900 ppb	1.57095	105.43%
Tl 190.801†	-59.1	-20.194 ug/L	5.0685	-20.194 ppb	5.0685	25.10%
U 409.014†	416959.6	15128 ug/L	21.7	15128 ppb	21.7	0.14%
QC value within limits for U 409.014 Recovery = 100.85%						
V 292.402†	4062.4	9.4753 ug/L	0.46295	9.4753 ppb	0.46295	4.89%
Zn 213.857†	5274.4	-7.5293 ug/L	1.67114	-7.5293 ppb	1.67114	22.19%
SiO2†	-1019.1	-71.496 ug/L	3.2099	-71.496 ppb	3.2099	4.49%

QC Failed. Continue with analysis.

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 2/19/2010 17:46:12

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	3771.5	3771.5	107 %		17:48:30
1	Y RADIAL	4141.9	4141.9	103.6 %		17:48:10
1	Al 396.153Radial†	428.9	515.4	51.484 ug/L	51.484 ppb	17:48:10
1	Ca 317.933Radial†	39.8	6.1	13.337 ug/L	13.337 ppb	17:48:30
1	Fe 238.204 Radial†	-8.6	-17.2	14.482 ug/L	14.482 ppb	17:48:30
1	K 766.490 Radial†	1596652.9	1494160.6	280750 ug/L	280750 ppb	17:48:05
1	Mg 279.077 IEC†	-3.8	-6.2	-218.42 ug/L	-218.42 ppb	17:48:30
1	Na 589.592 Radial†	1222.6	-2880.8	-988.67 ug/L	-988.67 ppb	17:48:10
1	Sr 421.552†	1301440.3	1219019.6	9140.9 ug/L	9140.9 ppb	17:48:05
1	Sc 361.383	781256.6	781256.6	103.98 %		17:49:47
1	Y 371.029	609456.2	609456.2	103.57 %		17:49:47
1	Ag 328.068†	-6905.0	-6966.9	3.2317 ug/L	3.2317 ppb	17:49:52
1	As 188.979†	20497.9	19733.3	9203.4 ug/L	9203.4 ppb	17:49:52
1	B 249.677†	201236.2	193969.0	4790.7 ug/L	4790.7 ppb	17:49:47
1	Ba 233.527†	1532577.3	1473720.9	12566 ug/L	12566 ppb	17:49:47
1	Be 313.107†	7237556.9	6964649.8	2754.4 ug/L	2754.4 ppb	17:49:41
1	Cd 226.502†	719876.5	692494.0	9160.7 ug/L	9160.7 ppb	17:49:47
1	Co 228.616†	418167.0	402217.8	8811.1 ug/L	8811.1 ppb	17:49:52
1	Cr 267.716†	1819503.5	1749722.5	22882 ug/L	22882 ppb	17:49:47
1	Cu 324.752†	6532011.1	6275324.7	19549 ug/L	19549 ppb	17:49:41
1	Mn 257.610†	7828863.8	7528477.3	8908.7 ug/L	8908.7 ppb	17:49:41
1	Mo 202.031†	117837.6	113313.4	9272.0 ug/L	9272.0 ppb	17:49:52
1	Ni 231.604†	331115.9	318352.1	9052.1 ug/L	9052.1 ppb	17:49:52
1	P 214.914†	29265.8	27933.5	13276 ug/L	13276 ppb	17:49:52
1	Pb 220.353†	172105.1	165491.0	22998 ug/L	22998 ppb	17:49:52
1	S 181.975 Axial†	36411.0	34978.8	50307 ug/L	50307 ppb	17:49:52
1	Sb 206.836†	29289.3	28130.9	10656 ug/L	10656 ppb	17:49:52
1	Se 196.026†	14848.2	14308.7	9722.7 ug/L	9722.7 ppb	17:49:52
1	Si 251.611†	1410212.5	1355692.3	45279 ug/L	45279 ppb	17:49:47
1	Sn 189.927†	50217.5	48278.4	9719.8 ug/L	9719.8 ppb	17:49:52
1	Ti 334.940†	5968459.9	5741294.7	9523.3 ug/L	9523.3 ppb	17:49:41
1	Tl 190.801†	28102.2	27058.2	9149.3 ug/L	9149.3 ppb	17:49:52
1	U 409.014†	-1361.5	1753.8	12.683 ug/L	12.683 ppb	17:49:52
1	V 292.402†	1237117.9	1191418.0	9870.3 ug/L	9870.3 ppb	17:49:47
1	Zn 213.857†	1312390.1	1261470.1	13154 ug/L	13154 ppb	17:49:47
1	SiO2†	1405410.7	1351078.7	96053 ug/L	96053 ppb	17:50:38
2	Sc Radial	3815.9	3815.9	108 %		17:49:00
2	Y RADIAL	4344.1	4344.1	108.6 %		17:48:40
2	Al 396.153Radial†	404.3	488.0	27.049 ug/L	27.049 ppb	17:48:40
2	Ca 317.933Radial†	42.7	8.3	18.111 ug/L	18.111 ppb	17:49:00
2	Fe 238.204 Radial†	-9.7	-18.1	0.2469 ug/L	0.2469 ppb	17:49:00
2	K 766.490 Radial†	1671064.7	1545704.5	290430 ug/L	290430 ppb	17:48:35
2	Mg 279.077 IEC†	-2.1	-4.6	-136.41 ug/L	-136.41 ppb	17:49:00
2	Na 589.592 Radial†	1133.1	-2977.2	-1021.7 ug/L	-1021.7 ppb	17:48:40
2	Sr 421.552†	1376088.9	1274005.0	9553.2 ug/L	9553.2 ppb	17:48:35
2	Sc 361.383	777482.1	777482.1	103.48 %		17:50:07
2	Y 371.029	606914.1	606914.1	103.14 %		17:50:07
2	Ag 328.068†	-6802.3	-6899.8	3.5732 ug/L	3.5732 ppb	17:50:12
2	As 188.979†	20142.8	19485.9	9090.8 ug/L	9090.8 ppb	17:50:12
2	B 249.677†	201019.8	194699.4	4808.9 ug/L	4808.9 ppb	17:50:07
2	Ba 233.527†	1525286.4	1473830.5	12567 ug/L	12567 ppb	17:50:07
2	Be 313.107†	7393157.5	7148806.6	2827.2 ug/L	2827.2 ppb	17:50:00
2	Cd 226.502†	717157.5	693227.4	9170.4 ug/L	9170.4 ppb	17:50:07
2	Co 228.616†	414194.5	400331.3	8769.2 ug/L	8769.2 ppb	17:50:12
2	Cr 267.716†	1812876.5	1751813.3	22910 ug/L	22910 ppb	17:50:07
2	Cu 324.752†	6665988.9	6435292.0	20048 ug/L	20048 ppb	17:50:00
2	Mn 257.610†	7967342.9	7698849.2	9110.3 ug/L	9110.3 ppb	17:50:00
2	Mo 202.031†	116673.6	112738.7	9224.9 ug/L	9224.9 ppb	17:50:12
2	Ni 231.604†	328797.5	317657.5	9032.4 ug/L	9032.4 ppb	17:50:12

2	P 214.914†	28898.1	27714.8	13044 ug/L	13044 ppb	17:50:12
2	Pb 220.353†	171210.2	165429.8	22989 ug/L	22989 ppb	17:50:12
2	S 181.975 Axial†	35721.6	34482.5	49593 ug/L	49593 ppb	17:50:12
2	Sb 206.836†	28776.1	27771.7	10522 ug/L	10522 ppb	17:50:12
2	Se 196.026†	14608.8	14146.6	9612.7 ug/L	9612.7 ppb	17:50:12
2	Si 251.611†	1404667.0	1356917.3	45321 ug/L	45321 ppb	17:50:07
2	Sn 189.927†	49950.8	48255.1	9715.2 ug/L	9715.2 ppb	17:50:12
2	Ti 334.940†	6078194.3	5875203.1	9745.6 ug/L	9745.6 ppb	17:50:00
2	Tl 190.801†	27843.5	26939.4	9112.4 ug/L	9112.4 ppb	17:50:12
2	U 409.014†	-1590.7	1526.0	4.3318 ug/L	4.3318 ppb	17:50:12
2	V 292.402†	1230866.9	1191153.1	9867.2 ug/L	9867.2 ppb	17:50:07
2	Zn 213.857†	1308510.7	1263848.5	13179 ug/L	13179 ppb	17:50:07
2	SiO2†	1382246.6	1335255.5	94926 ug/L	94926 ppb	17:50:44
3	Sc Radial	3826.7	3826.7	108 %		17:49:31
3	Y RADIAL	4311.6	4311.6	107.8 %		17:49:11
3	Al 396.153Radial†	399.8	482.8	13.035 ug/L	13.035 ppb	17:49:11
3	Ca 317.933Radial†	38.5	4.3	9.4936 ug/L	9.4936 ppb	17:49:31
3	Fe 238.204 Radial†	-7.6	-16.2	32.893 ug/L	32.893 ppb	17:49:31
3	K 766.490 Radial†	1626256.2	1499920.7	281830 ug/L	281830 ppb	17:49:06
3	Mg 279.077 IEC†	-5.4	-7.6	-288.76 ug/L	-288.76 ppb	17:49:31
3	Na 589.592 Radial†	1118.4	-2993.7	-1027.4 ug/L	-1027.4 ppb	17:49:11
3	Sr 421.552†	1334201.8	1231692.6	9235.9 ug/L	9235.9 ppb	17:49:06
3	Sc 361.383	770728.9	770728.9	102.58 %		17:50:27
3	Y 371.029	601506.2	601506.2	102.22 %		17:50:27
3	Ag 328.068†	-7004.1	-7154.1	2.3800 ug/L	2.3800 ppb	17:50:32
3	As 188.979†	20375.8	19883.6	9273.9 ug/L	9273.9 ppb	17:50:32
3	B 249.677†	199019.4	194451.5	4802.3 ug/L	4802.3 ppb	17:50:27
3	Ba 233.527†	1518088.7	1479729.2	12617 ug/L	12617 ppb	17:50:27
3	Be 313.107†	7258376.8	7080019.3	2800.0 ug/L	2800.0 ppb	17:50:20
3	Cd 226.502†	715044.8	697240.3	9223.6 ug/L	9223.6 ppb	17:50:27
3	Co 228.616†	418338.1	407877.7	8935.1 ug/L	8935.1 ppb	17:50:32
3	Cr 267.716†	1804915.0	1759402.5	23009 ug/L	23009 ppb	17:50:27
3	Cu 324.752†	6554197.0	6382757.6	19884 ug/L	19884 ppb	17:50:20
3	Mn 257.610†	7840561.7	7642721.9	9043.9 ug/L	9043.9 ppb	17:50:20
3	Mo 202.031†	117983.5	115003.6	9410.3 ug/L	9410.3 ppb	17:50:32
3	Ni 231.604†	332085.9	323647.3	9202.7 ug/L	9202.7 ppb	17:50:32
3	P 214.914†	29340.3	28390.6	13491 ug/L	13491 ppb	17:50:32
3	Pb 220.353†	173096.7	168718.5	23447 ug/L	23447 ppb	17:50:32
3	S 181.975 Axial†	36251.0	35301.1	50770 ug/L	50770 ppb	17:50:32
3	Sb 206.836†	29129.9	28360.3	10745 ug/L	10745 ppb	17:50:32
3	Se 196.026†	14786.6	14443.7	9814.7 ug/L	9814.7 ppb	17:50:32
3	Si 251.611†	1393037.5	1357474.4	45337 ug/L	45337 ppb	17:50:27
3	Sn 189.927†	50545.8	49258.1	9917.1 ug/L	9917.1 ppb	17:50:32
3	Ti 334.940†	5972754.9	5823884.2	9660.4 ug/L	9660.4 ppb	17:50:20
3	Tl 190.801†	28128.2	27452.7	9282.9 ug/L	9282.9 ppb	17:50:32
3	U 409.014†	-1530.7	1571.0	5.7443 ug/L	5.7443 ppb	17:50:32
3	V 292.402†	1223812.0	1194698.0	9898.9 ug/L	9898.9 ppb	17:50:27
3	Zn 213.857†	1303665.6	1270204.9	13244 ug/L	13244 ppb	17:50:27
3	SiO2†	1394138.5	1358551.9	96582 ug/L	96582 ppb	17:50:50

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	776489.2	103.35 %	0.710			0.69%
Sc Radial	3804.7	108 %	0.8			0.77%
Y 371.029	605958.9	102.97 %	0.690			0.67%
Y RADIAL	4265.9	106.7 %	2.72			2.54%
Ag 328.068†	-7006.9	3.0616 ug/L	0.61448	3.0616 ppb	0.61448	20.07%
Al 396.153Radial†	495.4	30.523 ug/L	19.4586	30.523 ppb	19.4586	63.75%
As 188.979†	19700.9	9189.4 ug/L	92.35	9189.4 ppb	92.35	1.01%
QC value within limits for As 188.979 Recovery = 91.89%						
B 249.677†	194373.3	4800.6 ug/L	9.24	4800.6 ppb	9.24	0.19%
QC value within limits for B 249.677 Recovery = 96.01%						
Ba 233.527†	1475760.2	12583 ug/L	29.3	12583 ppb	29.3	0.23%
QC value less than the lower limit for Ba 233.527 Recovery = 83.89%						
Be 313.107†	7064491.9	2793.9 ug/L	36.77	2793.9 ppb	36.77	1.32%
QC value within limits for Be 313.107 Recovery = 93.13%						
Ca 317.933Radial†	6.2	13.647 ug/L	4.3169	13.647 ppb	4.3169	31.63%
Cd 226.502†	694320.6	9184.9 ug/L	33.83	9184.9 ppb	33.83	0.37%
QC value within limits for Cd 226.502 Recovery = 91.85%						

Co 228.616†	403475.6	8838.5 ug/L	86.29	8838.5 ppb	86.29	0.98%
QC value less than the lower limit for Co 228.616 Recovery = 88.38%						
Cr 267.716†	1753646.1	22934 ug/L	66.6	22934 ppb	66.6	0.29%
QC value within limits for Cr 267.716 Recovery = 91.73%						
Cu 324.752†	6364458.1	19827 ug/L	254.0	19827 ppb	254.0	1.28%
QC value within limits for Cu 324.752 Recovery = 99.14%						
Fe 238.204 Radial†	-17.2	15.874 ug/L	16.3673	15.874 ppb	16.3673	103.11%
K 766.490 Radial†	1513261.9	284340 ug/L	5307.1	284340 ppb	5307.1	1.87%
QC value within limits for K 766.490 Radial Recovery = 94.78%						
Mg 279.077 IEC†	-6.1	-214.53 ug/L	76.248	-214.53 ppb	76.248	35.54%
Mn 257.610†	7623349.5	9021.0 ug/L	102.74	9021.0 ppb	102.74	1.14%
QC value within limits for Mn 257.610 Recovery = 90.21%						
Mo 202.031†	113685.2	9302.4 ug/L	96.34	9302.4 ppb	96.34	1.04%
QC value within limits for Mo 202.031 Recovery = 93.02%						
Na 589.592 Radial†	-2950.6	-1012.6 ug/L	20.92	-1012.6 ppb	20.92	2.07%
Ni 231.604†	319885.6	9095.7 ug/L	93.16	9095.7 ppb	93.16	1.02%
QC value within limits for Ni 231.604 Recovery = 90.96%						
P 214.914†	28013.0	13270 ug/L	223.7	13270 ppb	223.7	1.69%
QC value less than the lower limit for P 214.914 Recovery = 88.47%						
Pb 220.353†	166546.5	23145 ug/L	261.5	23145 ppb	261.5	1.13%
QC value within limits for Pb 220.353 Recovery = 92.58%						
S 181.975 Axial†	34920.8	50223 ug/L	593.0	50223 ppb	593.0	1.18%
QC value within limits for S 181.975 Axial Recovery = 100.45%						
Sb 206.836†	28087.6	10641 ug/L	112.3	10641 ppb	112.3	1.06%
QC value within limits for Sb 206.836 Recovery = 106.41%						
Se 196.026†	14299.7	9716.7 ug/L	101.09	9716.7 ppb	101.09	1.04%
QC value within limits for Se 196.026 Recovery = 97.17%						
Si 251.611†	1356694.7	45313 ug/L	29.9	45313 ppb	29.9	0.07%
QC value within limits for Si 251.611 Recovery = 90.63%						
Sn 189.927†	48597.2	9784.0 ug/L	115.26	9784.0 ppb	115.26	1.18%
QC value within limits for Sn 189.927 Recovery = 97.84%						
Sr 421.552†	1241572.4	9310.0 ug/L	215.91	9310.0 ppb	215.91	2.32%
QC value within limits for Sr 421.552 Recovery = 93.10%						
Ti 334.940†	5813460.7	9643.1 ug/L	112.15	9643.1 ppb	112.15	1.16%
QC value within limits for Ti 334.940 Recovery = 96.43%						
Tl 190.801†	27150.1	9181.5 ug/L	89.73	9181.5 ppb	89.73	0.98%
QC value within limits for Tl 190.801 Recovery = 91.82%						
U 409.014†	1616.9	7.5864 ug/L	4.47010	7.5864 ppb	4.47010	58.92%
V 292.402†	1192423.0	9878.8 ug/L	17.48	9878.8 ppb	17.48	0.18%
QC value within limits for V 292.402 Recovery = 98.79%						
Zn 213.857†	1265174.5	13192 ug/L	46.7	13192 ppb	46.7	0.35%
QC value less than the lower limit for Zn 213.857 Recovery = 87.95%						
SiO2†	1348295.4	95854 ug/L	845.6	95854 ppb	845.6	0.88%
QC value less than the lower limit for SiO2 Recovery = 89.58%						
QC Failed. Continue with analysis.						

Sequence No.: 13
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 2/19/2010 17:53:00
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3781.0	3781.0	107 %		17:55:12
1	Y RADIAL	4294.0	4294.0	107.4 %		17:54:52
1	Al 396.153Radial†	5208.6	4985.5	4823.5 ug/L	4823.5 ppb	17:54:52
1	Ca 317.933Radial†	2426.1	2238.2	4889.4 ug/L	4889.4 ppb	17:55:12
1	Fe 238.204 Radial†	372.4	339.2	4921.2 ug/L	4921.2 ppb	17:55:12
1	K 766.490 Radial†	30739.3	25610.5	4806.4 ug/L	4806.4 ppb	17:54:52
1	Mg 279.077 IEC†	105.7	96.2	4888.1 ug/L	4888.1 ppb	17:55:12
1	Na 589.592 Radial†	32709.8	26570.6	9118.7 ug/L	9118.7 ppb	17:54:52
1	Sr 421.552†	70564.1	64566.8	484.12 ug/L	484.12 ppb	17:54:52
1	Sc 361.383	771213.9	771213.9	102.65 %		17:56:10
1	Y 371.029	601917.0	601917.0	102.29 %		17:56:10
1	Ag 328.068†	98748.1	95875.5	499.77 ug/L	499.77 ppb	17:56:15
1	As 188.979†	1095.6	1088.0	508.30 ug/L	508.30 ppb	17:56:35
1	B 249.677†	20889.4	20792.7	514.04 ug/L	514.04 ppb	17:56:15
1	Ba 233.527†	58915.1	57250.9	488.54 ug/L	488.54 ppb	17:56:15
1	Be 313.107†	1246401.3	1218617.7	479.26 ug/L	479.26 ppb	17:56:10
1	Cd 226.502†	37364.5	36596.2	483.72 ug/L	483.72 ppb	17:56:15
1	Co 228.616†	22765.4	22248.7	487.59 ug/L	487.59 ppb	17:56:15
1	Cr 267.716†	38035.1	36976.6	484.22 ug/L	484.22 ppb	17:56:15
1	Cu 324.752†	168704.7	157902.3	491.87 ug/L	491.87 ppb	17:56:15
1	Mn 257.610†	418671.2	407404.1	482.38 ug/L	482.38 ppb	17:56:10
1	Mo 202.031†	6103.8	5936.4	486.19 ug/L	486.19 ppb	17:56:35
1	Ni 231.604†	17501.1	16970.6	482.54 ug/L	482.54 ppb	17:56:15
1	P 214.914†	4188.1	3869.0	2268.1 ug/L	2268.1 ppb	17:56:35
1	Pb 220.353†	3576.4	3463.3	483.11 ug/L	483.11 ppb	17:56:35
1	S 181.975 Axial†	739.0	682.5	980.72 ug/L	980.72 ppb	17:56:35
1	Sb 206.836†	1411.3	1338.5	508.15 ug/L	508.15 ppb	17:56:35
1	Se 196.026†	699.1	710.4	500.36 ug/L	500.36 ppb	17:56:35
1	Si 251.611†	76159.9	73699.6	2461.7 ug/L	2461.7 ppb	17:56:15
1	Sn 189.927†	2503.5	2423.6	488.54 ug/L	488.54 ppb	17:56:35
1	Ti 334.940†	298177.0	291968.2	484.56 ug/L	484.56 ppb	17:56:15
1	Tl 190.801†	1478.6	1473.0	497.83 ug/L	497.83 ppb	17:56:35
1	U 409.014†	12094.4	14845.6	538.69 ug/L	538.69 ppb	17:56:15
1	V 292.402†	59613.1	59768.6	496.09 ug/L	496.09 ppb	17:56:15
1	Zn 213.857†	48621.2	46723.7	485.86 ug/L	485.86 ppb	17:56:15
1	SiO2†	75881.8	73433.0	5221.1 ug/L	5221.1 ppb	17:57:42
2	Sc Radial	3769.5	3769.5	107 %		17:55:37
2	Y RADIAL	4287.8	4287.8	107.2 %		17:55:17
2	Al 396.153Radial†	5223.9	5014.7	4851.8 ug/L	4851.8 ppb	17:55:17
2	Ca 317.933Radial†	2406.8	2227.1	4865.0 ug/L	4865.0 ppb	17:55:37
2	Fe 238.204 Radial†	371.0	339.0	4918.4 ug/L	4918.4 ppb	17:55:37
2	K 766.490 Radial†	30674.7	25637.4	4811.4 ug/L	4811.4 ppb	17:55:17
2	Mg 279.077 IEC†	107.8	98.5	5005.0 ug/L	5005.0 ppb	17:55:37
2	Na 589.592 Radial†	32737.2	26689.5	9159.5 ug/L	9159.5 ppb	17:55:17
2	Sr 421.552†	70707.8	64902.7	486.64 ug/L	486.64 ppb	17:55:17
2	Sc 361.383	770536.3	770536.3	102.56 %		17:56:41
2	Y 371.029	603204.9	603204.9	102.51 %		17:56:41
2	Ag 328.068†	98393.0	95613.8	498.41 ug/L	498.41 ppb	17:56:46
2	As 188.979†	1092.6	1086.1	507.38 ug/L	507.38 ppb	17:57:06
2	B 249.677†	20841.5	20764.0	513.34 ug/L	513.34 ppb	17:56:46
2	Ba 233.527†	58363.3	56763.3	484.39 ug/L	484.39 ppb	17:56:46
2	Be 313.107†	1248383.2	1221618.0	480.44 ug/L	480.44 ppb	17:56:41
2	Cd 226.502†	37169.9	36438.4	481.63 ug/L	481.63 ppb	17:56:46
2	Co 228.616†	22560.0	22067.9	483.63 ug/L	483.63 ppb	17:56:46
2	Cr 267.716†	37902.0	36879.4	482.95 ug/L	482.95 ppb	17:56:46
2	Cu 324.752†	168290.1	157642.6	491.07 ug/L	491.07 ppb	17:56:46
2	Mn 257.610†	417239.0	406366.3	481.15 ug/L	481.15 ppb	17:56:41
2	Mo 202.031†	6120.2	5957.6	487.93 ug/L	487.93 ppb	17:57:06
2	Ni 231.604†	17470.5	16955.8	482.12 ug/L	482.12 ppb	17:56:46

2	P 214.914†	4201.4	3885.5	2278.4 ug/L	2278.4 ppb	17:57:06
2	Pb 220.353†	3556.7	3447.2	480.88 ug/L	480.88 ppb	17:57:06
2	S 181.975 Axial†	733.1	677.4	973.35 ug/L	973.35 ppb	17:57:06
2	Sb 206.836†	1403.1	1331.8	505.72 ug/L	505.72 ppb	17:57:06
2	Se 196.026†	699.8	711.6	501.19 ug/L	501.19 ppb	17:57:06
2	Si 251.611†	75755.4	73370.4	2450.7 ug/L	2450.7 ppb	17:56:46
2	Sn 189.927†	2497.4	2419.8	487.76 ug/L	487.76 ppb	17:57:06
2	Ti 334.940†	297045.5	291120.4	483.15 ug/L	483.15 ppb	17:56:46
2	Tl 190.801†	1479.1	1474.7	498.41 ug/L	498.41 ppb	17:57:06
2	U 409.014†	11930.0	14695.7	533.23 ug/L	533.23 ppb	17:56:46
2	V 292.402†	59357.0	59570.0	494.48 ug/L	494.48 ppb	17:56:46
2	Zn 213.857†	48420.5	46569.6	484.24 ug/L	484.24 ppb	17:56:46
2	SiO2†	75412.6	73040.4	5193.1 ug/L	5193.1 ppb	17:57:48
3	Sc Radial	3770.8	3770.8	107 %		17:56:03
3	Y RADIAL	4242.8	4242.8	106.1 %		17:55:43
3	Al 396.153Radial†	5206.2	4996.3	4834.3 ug/L	4834.3 ppb	17:55:43
3	Ca 317.933Radial†	2421.2	2239.7	4892.8 ug/L	4892.8 ppb	17:56:03
3	Fe 238.204 Radial†	372.1	339.8	4930.4 ug/L	4930.4 ppb	17:56:03
3	K 766.490 Radial†	30951.5	25886.7	4858.3 ug/L	4858.3 ppb	17:55:43
3	Mg 279.077 IEC†	104.8	95.7	4861.1 ug/L	4861.1 ppb	17:56:03
3	Na 589.592 Radial†	32542.5	26495.7	9093.0 ug/L	9093.0 ppb	17:55:43
3	Sr 421.552†	70324.0	64518.7	483.76 ug/L	483.76 ppb	17:55:43
3	Sc 361.383	782993.3	782993.3	104.21 %		17:57:12
3	Y 371.029	612456.6	612456.6	104.08 %		17:57:12
3	Ag 328.068†	98444.7	94137.1	490.73 ug/L	490.73 ppb	17:57:17
3	As 188.979†	1091.3	1067.8	498.87 ug/L	498.87 ppb	17:57:37
3	B 249.677†	20768.3	20370.4	503.59 ug/L	503.59 ppb	17:57:17
3	Ba 233.527†	58442.5	55933.9	477.32 ug/L	477.32 ppb	17:57:17
3	Be 313.107†	1265281.7	1218467.0	479.18 ug/L	479.18 ppb	17:57:12
3	Cd 226.502†	37301.5	35988.1	475.67 ug/L	475.67 ppb	17:57:17
3	Co 228.616†	22622.9	21778.3	477.29 ug/L	477.29 ppb	17:57:17
3	Cr 267.716†	37893.0	36282.7	475.14 ug/L	475.14 ppb	17:57:17
3	Cu 324.752†	168283.0	155025.1	482.91 ug/L	482.91 ppb	17:57:17
3	Mn 257.610†	422059.0	404518.8	478.97 ug/L	478.97 ppb	17:57:12
3	Mo 202.031†	6108.1	5851.1	479.21 ug/L	479.21 ppb	17:57:37
3	Ni 231.604†	17490.1	16703.6	474.94 ug/L	474.94 ppb	17:57:17
3	P 214.914†	4207.6	3826.3	2243.8 ug/L	2243.8 ppb	17:57:37
3	Pb 220.353†	3571.2	3405.9	475.13 ug/L	475.13 ppb	17:57:37
3	S 181.975 Axial†	735.1	667.9	959.73 ug/L	959.73 ppb	17:57:37
3	Sb 206.836†	1407.5	1314.2	498.95 ug/L	498.95 ppb	17:57:37
3	Se 196.026†	709.8	710.3	500.33 ug/L	500.33 ppb	17:57:37
3	Si 251.611†	75792.8	72231.1	2412.7 ug/L	2412.7 ppb	17:57:17
3	Sn 189.927†	2490.7	2374.6	478.67 ug/L	478.67 ppb	17:57:37
3	Ti 334.940†	296604.9	286089.5	474.81 ug/L	474.81 ppb	17:57:17
3	Tl 190.801†	1484.9	1457.4	492.56 ug/L	492.56 ppb	17:57:37
3	U 409.014†	12052.5	14628.2	530.79 ug/L	530.79 ppb	17:57:17
3	V 292.402†	59359.0	58651.1	486.83 ug/L	486.83 ppb	17:57:17
3	Zn 213.857†	48512.9	45907.1	477.35 ug/L	477.35 ppb	17:57:17
3	SiO2†	75525.4	71978.8	5117.6 ug/L	5117.6 ppb	17:57:53

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	774914.5	103.14 %	0.932			0.90%
Sc Radial	3773.8	107 %	0.2			0.17%
Y 371.029	605859.5	102.96 %	0.977			0.95%
Y RADIAL	4274.9	106.9 %	0.70			0.65%
Ag 328.068†	95208.8	496.30 ug/L	4.872	496.30 ppb	4.872	0.98%
QC value within limits for Ag 328.068 Recovery = 99.26%						
Al 396.153Radial†	4998.9	4836.5 ug/L	14.27	4836.5 ppb	14.27	0.30%
QC value within limits for Al 396.153Radial Recovery = 96.73%						
As 188.979†	1080.6	504.85 ug/L	5.200	504.85 ppb	5.200	1.03%
QC value within limits for As 188.979 Recovery = 100.97%						
B 249.677†	20642.3	510.32 ug/L	5.846	510.32 ppb	5.846	1.15%
QC value within limits for B 249.677 Recovery = 102.06%						
Ba 233.527†	56649.4	483.42 ug/L	5.678	483.42 ppb	5.678	1.17%
QC value within limits for Ba 233.527 Recovery = 96.68%						
Be 313.107†	1219567.6	479.63 ug/L	0.702	479.63 ppb	0.702	0.15%
QC value within limits for Be 313.107 Recovery = 95.93%						
Ca 317.933Radial†	2235.0	4882.4 ug/L	15.14	4882.4 ppb	15.14	0.31%

QC value within limits for Ca 317.933 Radial Recovery = 97.65%							
Cd 226.502†	36340.9	480.34 ug/L	4.176	480.34 ppb	4.176	0.87%	
QC value within limits for Cd 226.502 Recovery = 96.07%							
Co 228.616†	22031.6	482.84 ug/L	5.198	482.84 ppb	5.198	1.08%	
QC value within limits for Co 228.616 Recovery = 96.57%							
Cr 267.716†	36712.9	480.77 ug/L	4.915	480.77 ppb	4.915	1.02%	
QC value within limits for Cr 267.716 Recovery = 96.15%							
Cu 324.752†	156856.7	488.62 ug/L	4.956	488.62 ppb	4.956	1.01%	
QC value within limits for Cu 324.752 Recovery = 97.72%							
Fe 238.204 Radial†	339.3	4923.4 ug/L	6.26	4923.4 ppb	6.26	0.13%	
QC value within limits for Fe 238.204 Radial Recovery = 98.47%							
K 766.490 Radial†	25711.5	4825.4 ug/L	28.62	4825.4 ppb	28.62	0.59%	
QC value within limits for K 766.490 Radial Recovery = 96.51%							
Mg 279.077 IEC†	96.8	4918.1 ug/L	76.47	4918.1 ppb	76.47	1.55%	
QC value within limits for Mg 279.077 IEC Recovery = 98.36%							
Mn 257.610†	406096.4	480.83 ug/L	1.728	480.83 ppb	1.728	0.36%	
QC value within limits for Mn 257.610 Recovery = 96.17%							
Mo 202.031†	5915.0	484.44 ug/L	4.614	484.44 ppb	4.614	0.95%	
QC value within limits for Mo 202.031 Recovery = 96.89%							
Na 589.592 Radial†	26585.3	9123.8 ug/L	33.53	9123.8 ppb	33.53	0.37%	
QC value within limits for Na 589.592 Radial Recovery = 91.24%							
Ni 231.604†	16876.7	479.87 ug/L	4.267	479.87 ppb	4.267	0.89%	
QC value within limits for Ni 231.604 Recovery = 95.97%							
P 214.914†	3860.3	2263.4 ug/L	17.80	2263.4 ppb	17.80	0.79%	
QC value within limits for P 214.914 Recovery = 90.54%							
Pb 220.353†	3438.8	479.70 ug/L	4.116	479.70 ppb	4.116	0.86%	
QC value within limits for Pb 220.353 Recovery = 95.94%							
S 181.975 Axial†	676.0	971.27 ug/L	10.649	971.27 ppb	10.649	1.10%	
QC value within limits for S 181.975 Axial Recovery = 97.13%							
Sb 206.836†	1328.2	504.27 ug/L	4.768	504.27 ppb	4.768	0.95%	
QC value within limits for Sb 206.836 Recovery = 100.85%							
Se 196.026†	710.8	500.63 ug/L	0.486	500.63 ppb	0.486	0.10%	
QC value within limits for Se 196.026 Recovery = 100.13%							
Si 251.611†	73100.4	2441.7 ug/L	25.75	2441.7 ppb	25.75	1.05%	
QC value within limits for Si 251.611 Recovery = 97.67%							
Sn 189.927†	2406.0	484.99 ug/L	5.484	484.99 ppb	5.484	1.13%	
QC value within limits for Sn 189.927 Recovery = 97.00%							
Sr 421.552†	64662.7	484.84 ug/L	1.569	484.84 ppb	1.569	0.32%	
QC value within limits for Sr 421.552 Recovery = 96.97%							
Ti 334.940†	289726.1	480.84 ug/L	5.268	480.84 ppb	5.268	1.10%	
QC value within limits for Ti 334.940 Recovery = 96.17%							
Tl 190.801†	1468.4	496.26 ug/L	3.224	496.26 ppb	3.224	0.65%	
QC value within limits for Tl 190.801 Recovery = 99.25%							
U 409.014†	14723.2	534.24 ug/L	4.042	534.24 ppb	4.042	0.76%	
QC value within limits for U 409.014 Recovery = 106.85%							
V 292.402†	59329.9	492.47 ug/L	4.945	492.47 ppb	4.945	1.00%	
QC value within limits for V 292.402 Recovery = 98.49%							
Zn 213.857†	46400.1	482.48 ug/L	4.520	482.48 ppb	4.520	0.94%	
QC value within limits for Zn 213.857 Recovery = 96.50%							
SiO2†	72817.4	5177.3 ug/L	53.51	5177.3 ppb	53.51	1.03%	
QC value within limits for SiO2 Recovery = 96.82%							

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/19/2010 18:00:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3755.1	3755.1	106 %		18:02:15
1	Y RADIAL	4223.5	4223.5	105.6 %		18:01:55
1	Al 396.153Radial†	-104.5	14.9	14.417 ug/L	14.417 ppb	18:02:15
1	Ca 317.933Radial†	32.2	-0.9	-2.0710 ug/L	-2.0710 ppb	18:02:15
1	Fe 238.204 Radial†	8.6	-1.1	-15.623 ug/L	-15.623 ppb	18:02:15
1	K 766.490 Radial†	3217.0	-114.1	-21.028 ug/L	-21.028 ppb	18:01:55
1	Mg 279.077 IEC†	1.3	-1.4	-70.276 ug/L	-70.276 ppb	18:02:15
1	Na 589.592 Radial†	980.4	-3103.9	-1065.2 ug/L	-1065.2 ppb	18:01:55
1	Sr 421.552†	331.1	-1129.5	-8.4699 ug/L	-8.4699 ppb	18:01:55
1	Sc 361.383	765151.8	765151.8	101.84 %		18:03:12
1	Y 371.029	605284.7	605284.7	102.86 %		18:03:12
1	Ag 328.068†	99.6	-228.5	-1.1928 ug/L	-1.1928 ppb	18:03:12
1	As 188.979†	-7.1	13.7	6.3436 ug/L	6.3436 ppb	18:03:32
1	B 249.677†	501.2	934.1	23.193 ug/L	23.193 ppb	18:03:12
1	Ba 233.527†	70.9	-75.4	-0.6402 ug/L	-0.6402 ppb	18:03:32
1	Be 313.107†	-4638.1	-198.5	-0.0772 ug/L	-0.0772 ppb	18:03:12
1	Cd 226.502†	-125.5	71.9	0.9540 ug/L	0.9540 ppb	18:03:32
1	Co 228.616†	-52.6	18.7	0.4098 ug/L	0.4098 ppb	18:03:32
1	Cr 267.716†	96.0	16.4	0.2106 ug/L	0.2106 ppb	18:03:32
1	Cu 324.752†	6065.6	-496.2	-1.5518 ug/L	-1.5518 ppb	18:03:12
1	Mn 257.610†	464.0	-15.7	-0.0173 ug/L	-0.0173 ppb	18:03:32
1	Mo 202.031†	15.8	5.6	0.4537 ug/L	0.4537 ppb	18:03:32
1	Ni 231.604†	75.6	-4.9	-0.1389 ug/L	-0.1389 ppb	18:03:32
1	P 214.914†	203.4	-11.4	-6.5653 ug/L	-6.5653 ppb	18:03:32
1	Pb 220.353†	-9.9	-30.6	-4.2455 ug/L	-4.2455 ppb	18:03:32
1	S 181.975 Axial†	40.6	2.4	3.5060 ug/L	3.5060 ppb	18:03:32
1	Sb 206.836†	46.7	9.5	3.5724 ug/L	3.5724 ppb	18:03:32
1	Se 196.026†	-24.1	5.6	3.7462 ug/L	3.7462 ppb	18:03:32
1	Si 251.611†	556.0	49.4	1.6487 ug/L	1.6487 ppb	18:03:32
1	Sn 189.927†	44.3	28.2	5.6758 ug/L	5.6758 ppb	18:03:32
1	Ti 334.940†	-1335.0	169.1	0.2819 ug/L	0.2819 ppb	18:03:12
1	Tl 190.801†	-14.3	18.5	6.1985 ug/L	6.1985 ppb	18:03:32
1	U 409.014†	-2851.2	263.4	9.5884 ug/L	9.5884 ppb	18:03:12
1	V 292.402†	-1606.3	115.4	0.9707 ug/L	0.9707 ppb	18:03:12
1	Zn 213.857†	790.6	132.5	1.3958 ug/L	1.3958 ppb	18:03:32
1	SiO2†	597.9	94.9	6.7496 ug/L	6.7496 ppb	18:04:28
2	Sc Radial	3776.5	3776.5	107 %		18:02:40
2	Y RADIAL	4263.2	4263.2	106.6 %		18:02:20
2	Al 396.153Radial†	-107.4	12.7	12.266 ug/L	12.266 ppb	18:02:40
2	Ca 317.933Radial†	26.8	-6.1	-13.400 ug/L	-13.400 ppb	18:02:40
2	Fe 238.204 Radial†	10.3	0.5	7.8111 ug/L	7.8111 ppb	18:02:40
2	K 766.490 Radial†	3131.4	-211.5	-39.320 ug/L	-39.320 ppb	18:02:20
2	Mg 279.077 IEC†	4.5	1.6	81.063 ug/L	81.063 ppb	18:02:40
2	Na 589.592 Radial†	980.5	-3109.1	-1067.0 ug/L	-1067.0 ppb	18:02:20
2	Sr 421.552†	216.9	-1238.3	-9.2851 ug/L	-9.2851 ppb	18:02:20
2	Sc 361.383	760909.3	760909.3	101.28 %		18:03:38
2	Y 371.029	602694.5	602694.5	102.42 %		18:03:38
2	Ag 328.068†	111.7	-216.1	-1.1279 ug/L	-1.1279 ppb	18:03:38
2	As 188.979†	-7.1	13.7	6.3324 ug/L	6.3324 ppb	18:03:58
2	B 249.677†	544.0	979.1	24.307 ug/L	24.307 ppb	18:03:38
2	Ba 233.527†	39.5	-106.0	-0.8997 ug/L	-0.8997 ppb	18:03:58
2	Be 313.107†	-4636.6	-222.4	-0.0861 ug/L	-0.0861 ppb	18:03:38
2	Cd 226.502†	-137.7	59.2	0.7857 ug/L	0.7857 ppb	18:03:58
2	Co 228.616†	-70.7	0.5	0.0137 ug/L	0.0137 ppb	18:03:58
2	Cr 267.716†	97.0	18.0	0.2296 ug/L	0.2296 ppb	18:03:58
2	Cu 324.752†	6047.3	-481.0	-1.5087 ug/L	-1.5087 ppb	18:03:38
2	Mn 257.610†	469.5	-7.7	-0.0116 ug/L	-0.0116 ppb	18:03:58
2	Mo 202.031†	28.7	18.4	1.5064 ug/L	1.5064 ppb	18:03:58
2	Ni 231.604†	88.4	8.2	0.2323 ug/L	0.2323 ppb	18:03:58

2	P 214.914†	218.7	4.9	3.3261 ug/L	3.3261 ppb	18:03:58
2	Pb 220.353†	-20.4	-41.1	-5.6962 ug/L	-5.6962 ppb	18:03:58
2	S 181.975 Axial†	51.2	13.2	18.991 ug/L	18.991 ppb	18:03:58
2	Sb 206.836†	42.3	5.4	2.1027 ug/L	2.1027 ppb	18:03:58
2	Se 196.026†	-22.1	7.4	5.0603 ug/L	5.0603 ppb	18:03:58
2	Si 251.611†	563.8	60.2	1.9963 ug/L	1.9963 ppb	18:03:58
2	Sn 189.927†	41.4	25.6	5.1509 ug/L	5.1509 ppb	18:03:58
2	Ti 334.940†	-1191.3	303.7	0.4872 ug/L	0.4872 ppb	18:03:38
2	Tl 190.801†	-11.4	21.3	7.1464 ug/L	7.1464 ppb	18:03:58
2	U 409.014†	-2568.4	527.1	19.182 ug/L	19.182 ppb	18:03:38
2	V 292.402†	-1565.4	147.0	1.2616 ug/L	1.2616 ppb	18:03:38
2	Zn 213.857†	780.2	126.6	1.3276 ug/L	1.3276 ppb	18:03:58
2	SiO2†	568.9	69.5	4.9144 ug/L	4.9144 ppb	18:04:33
3	Sc Radial	3720.1	3720.1	105 %		18:03:05
3	Y RADIAL	4304.8	4304.8	107.7 %		18:02:45
3	Al 396.153Radial†	-100.1	18.1	17.536 ug/L	17.536 ppb	18:03:05
3	Ca 317.933Radial†	32.0	-0.9	-1.8673 ug/L	-1.8673 ppb	18:03:05
3	Fe 238.204 Radial†	8.9	-0.7	-10.283 ug/L	-10.283 ppb	18:03:05
3	K 766.490 Radial†	3100.5	-196.4	-36.495 ug/L	-36.495 ppb	18:02:45
3	Mg 279.077 IEC†	3.4	0.5	27.310 ug/L	27.310 ppb	18:03:05
3	Na 589.592 Radial†	1038.6	-3039.9	-1043.3 ug/L	-1043.3 ppb	18:02:45
3	Sr 421.552†	195.5	-1255.6	-9.4151 ug/L	-9.4151 ppb	18:02:45
3	Sc 361.383	765805.6	765805.6	101.93 %		18:04:03
3	Y 371.029	607159.7	607159.7	103.18 %		18:04:03
3	Ag 328.068†	190.1	-139.9	-0.7366 ug/L	-0.7366 ppb	18:04:03
3	As 188.979†	-6.7	14.1	6.5289 ug/L	6.5289 ppb	18:04:23
3	B 249.677†	467.0	900.2	22.350 ug/L	22.350 ppb	18:04:03
3	Ba 233.527†	48.5	-97.4	-0.8278 ug/L	-0.8278 ppb	18:04:23
3	Be 313.107†	-4662.8	-218.9	-0.0849 ug/L	-0.0849 ppb	18:04:03
3	Cd 226.502†	-119.1	78.3	1.0385 ug/L	1.0385 ppb	18:04:23
3	Co 228.616†	-59.5	11.9	0.2604 ug/L	0.2604 ppb	18:04:23
3	Cr 267.716†	84.2	4.8	0.0567 ug/L	0.0567 ppb	18:04:23
3	Cu 324.752†	6028.1	-538.0	-1.6850 ug/L	-1.6850 ppb	18:04:03
3	Mn 257.610†	442.3	-37.4	-0.0464 ug/L	-0.0464 ppb	18:04:23
3	Mo 202.031†	13.6	3.4	0.2737 ug/L	0.2737 ppb	18:04:23
3	Ni 231.604†	73.7	-6.8	-0.1947 ug/L	-0.1947 ppb	18:04:23
3	P 214.914†	209.1	-6.0	-3.2294 ug/L	-3.2294 ppb	18:04:23
3	Pb 220.353†	-9.8	-30.5	-4.2323 ug/L	-4.2323 ppb	18:04:23
3	S 181.975 Axial†	51.4	13.1	18.781 ug/L	18.781 ppb	18:04:23
3	Sb 206.836†	45.7	8.4	3.2040 ug/L	3.2040 ppb	18:04:23
3	Se 196.026†	-28.8	1.0	0.6484 ug/L	0.6484 ppb	18:04:23
3	Si 251.611†	552.3	45.3	1.5138 ug/L	1.5138 ppb	18:04:23
3	Sn 189.927†	49.8	33.6	6.7562 ug/L	6.7562 ppb	18:04:23
3	Ti 334.940†	-1235.5	267.8	0.4355 ug/L	0.4355 ppb	18:04:03
3	Tl 190.801†	-18.2	14.7	4.9451 ug/L	4.9451 ppb	18:04:23
3	U 409.014†	-2701.4	412.8	15.026 ug/L	15.026 ppb	18:04:03
3	V 292.402†	-1613.6	109.6	0.9319 ug/L	0.9319 ppb	18:04:03
3	Zn 213.857†	781.7	123.1	1.2973 ug/L	1.2973 ppb	18:04:23
3	SiO2†	585.2	82.0	5.8346 ug/L	5.8346 ppb	18:04:38

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	763955.6	101.68 %		0.354			0.35%
Sc Radial	3750.6	106 %		0.8			0.76%
Y 371.029	605046.3	102.82 %		0.381			0.37%
Y RADIAL	4263.9	106.6 %		1.02			0.95%
Ag 328.068†	-194.8	-1.0191 ug/L		0.24680	-1.0191 ppb	0.24680	24.22%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	15.2	14.740 ug/L		2.6498	14.740 ppb	2.6498	17.98%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	13.8	6.4016 ug/L		0.11033	6.4016 ppb	0.11033	1.72%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	937.8	23.283 ug/L		0.9813	23.283 ppb	0.9813	4.21%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-93.0	-0.7892 ug/L		0.13395	-0.7892 ppb	0.13395	16.97%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-213.2	-0.0827 ug/L		0.00481	-0.0827 ppb	0.00481	5.81%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-2.6	-5.7794 ug/L		6.60029	-5.7794 ppb	6.60029	114.20%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	69.8	0.9261 ug/L	0.12869	0.9261 ppb	0.12869	13.90%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	10.4	0.2280 ug/L	0.20004	0.2280 ppb	0.20004	87.75%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	13.1	0.1657 ug/L	0.09482	0.1657 ppb	0.09482	57.24%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-505.1	-1.5818 ug/L	0.09191	-1.5818 ppb	0.09191	5.81%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.4	-6.0316 ug/L	12.28179	-6.0316 ppb	12.28179	203.62%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-174.0	-32.281 ug/L	9.8472	-32.281 ppb	9.8472	30.50%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	0.2	12.699 ug/L	76.7203	12.699 ppb	76.7203	604.15%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-20.3	-0.0251 ug/L	0.01864	-0.0251 ppb	0.01864	74.23%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	9.1	0.7446 ug/L	0.66583	0.7446 ppb	0.66583	89.42%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-3084.3	-1058.5 ug/L	13.21	-1058.5 ppb	13.21	1.25%	
QC value less than the lower limit for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-1.2	-0.0338 ug/L	0.23211	-0.0338 ppb	0.23211	687.14%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-4.1	-2.1562 ug/L	5.03228	-2.1562 ppb	5.03228	233.39%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-34.1	-4.7246 ug/L	0.84138	-4.7246 ppb	0.84138	17.81%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	9.6	13.759 ug/L	8.8803	13.759 ppb	8.8803	64.54%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	7.8	2.9597 ug/L	0.76474	2.9597 ppb	0.76474	25.84%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	4.7	3.1516 ug/L	2.26527	3.1516 ppb	2.26527	71.88%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	51.6	1.7196 ug/L	0.24893	1.7196 ppb	0.24893	14.48%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	29.1	5.8609 ug/L	0.81852	5.8609 ppb	0.81852	13.97%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-1207.8	-9.0567 ug/L	0.51229	-9.0567 ppb	0.51229	5.66%	
QC value less than the lower limit for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	246.9	0.4015 ug/L	0.10680	0.4015 ppb	0.10680	26.60%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	18.2	6.0967 ug/L	1.10419	6.0967 ppb	1.10419	18.11%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	401.1	14.599 ug/L	4.8109	14.599 ppb	4.8109	32.95%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	124.0	1.0547 ug/L	0.18024	1.0547 ppb	0.18024	17.09%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	127.4	1.3403 ug/L	0.05041	1.3403 ppb	0.05041	3.76%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	82.1	5.8329 ug/L	0.91757	5.8329 ppb	0.91757	15.73%	
QC value within limits for SiO2 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 15

Sample ID: LR1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 37

Date Collected: 2/19/2010 18:06:52

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc.	Analysis Time
1	Sc Radial	3693.4	3693.4	104	%		18:09:05
1	Y RADIAL	4244.8	4244.8	106.2	%		18:08:45
1	Al 396.153Radial†	-122.4	-3.9	-2.6031	ug/L	-2.6031 ppb	18:09:05
1	Ca 317.933Radial†	38.5	5.6	12.207	ug/L	12.207 ppb	18:09:05
1	Fe 238.204 Radial†	26982.2	25829.4	373650	ug/L	373650 ppb	18:08:45
1	K 766.490 Radial†	2760.1	-501.1	-93.704	ug/L	-93.704 ppb	18:08:45
1	Mg 279.077 IEC†	7.8	4.8	-145.46	ug/L	-145.46 ppb	18:09:05
1	Na 589.592 Radial†	1012.9	-3057.3	-1049.2	ug/L	-1049.2 ppb	18:08:45
1	Sr 421.552†	1175.5	-315.8	-2.3680	ug/L	-2.3680 ppb	18:08:45
1	Sc 361.383	761811.4	761811.4	101.40	%		18:10:03
1	Y 371.029	601994.0	601994.0	102.30	%		18:10:03
1	Ag 328.068†	-22271.7	-22291.6	-0.4986	ug/L	-0.4986 ppb	18:10:03
1	As 188.979†	-186.3	-163.0	12.054	ug/L	12.054 ppb	18:10:23
1	B 249.677†	2064.5	2478.1	0.7985	ug/L	0.7985 ppb	18:10:03
1	Ba 233.527†	-1529.8	-1653.8	-2.5792	ug/L	-2.5792 ppb	18:10:03
1	Be 313.107†	-4583.7	-164.8	-0.0640	ug/L	-0.0640 ppb	18:10:03
1	Cd 226.502†	2757.9	2915.1	-0.0364	ug/L	-0.0364 ppb	18:10:03
1	Co 228.616†	683.4	744.3	10.851	ug/L	10.851 ppb	18:10:23
1	Cr 267.716†	-520.7	-591.3	27.850	ug/L	27.850 ppb	18:10:03
1	Cu 324.752†	-329.2	-6776.8	-1.3893	ug/L	-1.3893 ppb	18:10:03
1	Mn 257.610†	-32280.8	-32307.9	-1.3370	ug/L	-1.3370 ppb	18:10:03
1	Mo 202.031†	-301.7	-307.5	3.8476	ug/L	3.8476 ppb	18:10:03
1	Ni 231.604†	167.7	86.3	2.4454	ug/L	2.4454 ppb	18:10:23
1	P 214.914†	661.0	440.8	-27.454	ug/L	-27.454 ppb	18:10:23
1	Pb 220.353†	248.2	223.9	16.555	ug/L	16.555 ppb	18:10:23
1	S 181.975 Axial†	55.8	17.7	25.423	ug/L	25.423 ppb	18:10:23
1	Sb 206.836†	37.0	0.2	-4.4916	ug/L	-4.4916 ppb	18:10:23
1	Se 196.026†	-1668.4	-1616.2	197.44	ug/L	197.44 ppb	18:10:23
1	Si 251.611†	-497.4	-987.1	-32.743	ug/L	-32.743 ppb	18:10:03
1	Sn 189.927†	3.5	-11.8	-23.830	ug/L	-23.830 ppb	18:10:23
1	Ti 334.940†	-1329.6	168.6	0.2207	ug/L	0.2207 ppb	18:10:03
1	Tl 190.801†	-24.1	8.8	2.5858	ug/L	2.5858 ppb	18:10:23
1	U 409.014†	-340.5	2727.3	56.685	ug/L	56.685 ppb	18:10:03
1	V 292.402†	5560.9	7177.1	4.2026	ug/L	4.2026 ppb	18:10:03
1	Zn 213.857†	4095.0	3394.8	-20.278	ug/L	-20.278 ppb	18:10:23
1	SiO2†	-542.9	-1027.7	-72.567	ug/L	-72.567 ppb	18:11:20
2	Sc Radial	3654.4	3654.4	103	%		18:09:30
2	Y RADIAL	4189.6	4189.6	104.8	%		18:09:10
2	Al 396.153Radial†	-132.4	-14.9	-13.278	ug/L	-13.278 ppb	18:09:30
2	Ca 317.933Radial†	28.3	-3.8	-8.3243	ug/L	-8.3243 ppb	18:09:30
2	Fe 238.204 Radial†	26658.6	25791.7	373110	ug/L	373110 ppb	18:09:10
2	K 766.490 Radial†	2719.7	-511.9	-95.712	ug/L	-95.712 ppb	18:09:10
2	Mg 279.077 IEC†	8.6	5.7	-101.02	ug/L	-101.02 ppb	18:09:30
2	Na 589.592 Radial†	821.1	-3232.7	-1109.4	ug/L	-1109.4 ppb	18:09:10
2	Sr 421.552†	262.9	-1187.0	-8.9004	ug/L	-8.9004 ppb	18:09:10
2	Sc 361.383	764943.7	764943.7	101.81	%		18:10:29
2	Y 371.029	605088.6	605088.6	102.83	%		18:10:29
2	Ag 328.068†	-22315.2	-22244.4	-0.4255	ug/L	-0.4255 ppb	18:10:29
2	As 188.979†	-172.5	-148.7	18.542	ug/L	18.542 ppb	18:10:49
2	B 249.677†	2130.5	2534.6	2.2901	ug/L	2.2901 ppb	18:10:29
2	Ba 233.527†	-1538.6	-1656.2	-2.6172	ug/L	-2.6172 ppb	18:10:29
2	Be 313.107†	-4579.2	-141.8	-0.0549	ug/L	-0.0549 ppb	18:10:29
2	Cd 226.502†	2775.8	2921.5	0.1060	ug/L	0.1060 ppb	18:10:29
2	Co 228.616†	681.1	739.3	10.750	ug/L	10.750 ppb	18:10:49
2	Cr 267.716†	-579.5	-647.0	27.069	ug/L	27.069 ppb	18:10:29
2	Cu 324.752†	-338.1	-6784.3	-1.4436	ug/L	-1.4436 ppb	18:10:29
2	Mn 257.610†	-32713.8	-32602.8	-1.7416	ug/L	-1.7416 ppb	18:10:29
2	Mo 202.031†	-293.1	-297.9	4.5916	ug/L	4.5916 ppb	18:10:29
2	Ni 231.604†	175.1	92.8	2.6314	ug/L	2.6314 ppb	18:10:49

2	P 214.914†	655.8	433.0	-31.800 ug/L	-31.800 ppb	18:10:49
2	Pb 220.353†	241.7	216.5	15.544 ug/L	15.544 ppb	18:10:49
2	S 181.975 Axial†	50.3	12.0	17.321 ug/L	17.321 ppb	18:10:49
2	Sb 206.836†	26.4	-10.4	-8.3747 ug/L	-8.3747 ppb	18:10:49
2	Se 196.026†	-1674.0	-1614.9	196.43 ug/L	196.43 ppb	18:10:49
2	Si 251.611†	-577.3	-1063.5	-35.310 ug/L	-35.310 ppb	18:10:29
2	Sn 189.927†	-7.2	-22.4	-25.930 ug/L	-25.930 ppb	18:10:49
2	Ti 334.940†	-1295.4	207.6	0.2777 ug/L	0.2777 ppb	18:10:29
2	Tl 190.801†	-33.6	-0.5	-0.5236 ug/L	-0.5236 ppb	18:10:49
2	U 409.014†	-233.4	2833.9	60.628 ug/L	60.628 ppb	18:10:29
2	V 292.402†	5547.1	7141.1	4.0062 ug/L	4.0062 ppb	18:10:29
2	Zn 213.857†	4127.8	3410.6	-20.032 ug/L	-20.032 ppb	18:10:49
2	SiO2†	-511.1	-994.2	-70.201 ug/L	-70.201 ppb	18:11:25
3	Sc Radial	3659.2	3659.2	103 %		18:09:55
3	Y RADIAL	4170.5	4170.5	104.3 %		18:09:35
3	Al 396.153Radial†	-119.7	-2.4	-1.1847 ug/L	-1.1847 ppb	18:09:55
3	Ca 317.933Radial†	30.3	-1.9	-4.2529 ug/L	-4.2529 ppb	18:09:55
3	Fe 238.204 Radial†	26571.2	25673.7	371400 ug/L	371400 ppb	18:09:35
3	K 766.490 Radial†	2712.4	-522.4	-97.681 ug/L	-97.681 ppb	18:09:35
3	Mg 279.077 IEC†	9.5	6.6	-54.916 ug/L	-54.916 ppb	18:09:55
3	Na 589.592 Radial†	816.0	-3238.6	-1111.5 ug/L	-1111.5 ppb	18:09:35
3	Sr 421.552†	514.4	-944.2	-7.0802 ug/L	-7.0802 ppb	18:09:35
3	Sc 361.383	757647.0	757647.0	100.84 %		18:10:55
3	Y 371.029	599941.3	599941.3	101.95 %		18:10:55
3	Ag 328.068†	-22205.5	-22346.7	-1.4811 ug/L	-1.4811 ppb	18:10:55
3	As 188.979†	-181.0	-158.8	13.500 ug/L	13.500 ppb	18:11:15
3	B 249.677†	2044.9	2469.8	0.9588 ug/L	0.9588 ppb	18:10:55
3	Ba 233.527†	-1488.2	-1620.9	-2.3697 ug/L	-2.3697 ppb	18:10:55
3	Be 313.107†	-4546.2	-152.5	-0.0590 ug/L	-0.0590 ppb	18:10:55
3	Cd 226.502†	2760.8	2932.9	0.4322 ug/L	0.4322 ppb	18:10:55
3	Co 228.616†	692.1	756.6	11.154 ug/L	11.154 ppb	18:11:15
3	Cr 267.716†	-554.8	-628.0	27.155 ug/L	27.155 ppb	18:10:55
3	Cu 324.752†	-367.7	-6816.9	-1.6338 ug/L	-1.6338 ppb	18:10:55
3	Mn 257.610†	-32121.3	-32324.7	-1.5829 ug/L	-1.5829 ppb	18:10:55
3	Mo 202.031†	-293.6	-301.1	4.1942 ug/L	4.1942 ppb	18:10:55
3	Ni 231.604†	195.7	114.9	3.2602 ug/L	3.2602 ppb	18:11:15
3	P 214.914†	656.8	440.2	-25.975 ug/L	-25.975 ppb	18:11:15
3	Pb 220.353†	230.2	207.4	14.346 ug/L	14.346 ppb	18:11:15
3	S 181.975 Axial†	48.1	10.3	14.816 ug/L	14.816 ppb	18:11:15
3	Sb 206.836†	45.8	9.0	-1.2072 ug/L	-1.2072 ppb	18:11:15
3	Se 196.026†	-1682.4	-1639.1	174.15 ug/L	174.15 ppb	18:11:15
3	Si 251.611†	-571.3	-1063.0	-35.290 ug/L	-35.290 ppb	18:10:55
3	Sn 189.927†	1.0	-14.4	-24.214 ug/L	-24.214 ppb	18:11:15
3	Ti 334.940†	-1271.2	219.4	0.2952 ug/L	0.2952 ppb	18:10:55
3	Tl 190.801†	-24.5	8.3	2.4183 ug/L	2.4183 ppb	18:11:15
3	U 409.014†	-307.1	2758.6	58.080 ug/L	58.080 ppb	18:10:55
3	V 292.402†	5405.7	7053.3	3.5279 ug/L	3.5279 ppb	18:10:55
3	Zn 213.857†	4116.9	3438.7	-19.485 ug/L	-19.485 ppb	18:11:15
3	SiO2†	-478.3	-966.5	-68.220 ug/L	-68.220 ppb	18:11:30

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	761467.4	101.35 %		0.487			0.48%
Sc Radial	3669.0	104 %		0.6			0.58%
Y 371.029	602341.3	102.36 %		0.440			0.43%
Y RADIAL	4201.6	105.1 %		0.97			0.92%
Ag 328.068†	-22294.2	-0.8017 ug/L		0.58946	-0.8017 ppb	0.58946	73.52%
Al 396.153Radial†	-7.1	-5.6887 ug/L		6.61103	-5.6887 ppb	6.61103	116.21%
As 188.979†	-156.8	14.699 ug/L		3.4064	14.699 ppb	3.4064	23.17%
B 249.677†	2494.1	1.3492 ug/L		0.81884	1.3492 ppb	0.81884	60.69%
Ba 233.527†	-1643.6	-2.5220 ug/L		0.13329	-2.5220 ppb	0.13329	5.28%
Be 313.107†	-153.0	-0.0593 ug/L		0.00458	-0.0593 ppb	0.00458	7.72%
Ca 317.933Radial†	-0.1	-0.1235 ug/L		10.87063	-0.1235 ppb	10.87063	>999.9%
Cd 226.502†	2923.2	0.1673 ug/L		0.24024	0.1673 ppb	0.24024	143.61%
Co 228.616†	746.7	10.918 ug/L		0.2103	10.918 ppb	0.2103	1.93%
Cr 267.716†	-622.1	27.358 ug/L		0.4282	27.358 ppb	0.4282	1.57%
Cu 324.752†	-6792.7	-1.4889 ug/L		0.12843	-1.4889 ppb	0.12843	8.63%
Fe 238.204 Radial†	25764.9	372720 ug/L		1175.0	372720 ppb	1175.0	0.32%
K 766.490 Radial†	-511.8	-95.699 ug/L		1.9885	-95.699 ppb	1.9885	2.08%

Mg 279.077 IEC†	5.7	-100.47 ug/L	45.277	-100.47 ppb	45.277	45.07%
Mn 257.610†	-32411.8	-1.5538 ug/L	0.20385	-1.5538 ppb	0.20385	13.12%
Mo 202.031†	-302.1	4.2111 ug/L	0.37230	4.2111 ppb	0.37230	8.84%
Na 589.592 Radial†	-3176.2	-1090.0 ug/L	35.34	-1090.0 ppb	35.34	3.24%
Ni 231.604†	98.0	2.7790 ug/L	0.42694	2.7790 ppb	0.42694	15.36%
P 214.914†	438.0	-28.410 ug/L	3.0280	-28.410 ppb	3.0280	10.66%
Pb 220.353†	215.9	15.482 ug/L	1.1057	15.482 ppb	1.1057	7.14%
S 181.975 Axial†	13.3	19.187 ug/L	5.5439	19.187 ppb	5.5439	28.89%
Sb 206.836†	-0.4	-4.6912 ug/L	3.58791	-4.6912 ppb	3.58791	76.48%
Se 196.026†	-1623.4	189.34 ug/L	13.165	189.34 ppb	13.165	6.95%
Si 251.611†	-1037.9	-34.448 ug/L	1.4767	-34.448 ppb	1.4767	4.29%
Sn 189.927†	-16.2	-24.658 ug/L	1.1181	-24.658 ppb	1.1181	4.53%
Sr 421.552†	-815.6	-6.1162 ug/L	3.37123	-6.1162 ppb	3.37123	55.12%
Ti 334.940†	198.5	0.2645 ug/L	0.03893	0.2645 ppb	0.03893	14.72%
Tl 190.801†	5.5	1.4935 ug/L	1.74886	1.4935 ppb	1.74886	117.10%
U 409.014†	2773.3	58.464 ug/L	1.9996	58.464 ppb	1.9996	3.42%
V 292.402†	7123.8	3.9122 ug/L	0.34701	3.9122 ppb	0.34701	8.87%
Zn 213.857†	3414.7	-19.931 ug/L	0.4059	-19.931 ppb	0.4059	2.04%
SiO2†	-996.1	-70.329 ug/L	2.1765	-70.329 ppb	2.1765	3.09%

Sequence No.: 16

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/19/2010 18:13:42

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	3772.5	3772.5	107 %		18:15:54
1	Y RADIAL	4296.5	4296.5	107.4 %		18:15:34
1	Al 396.153Radial†	5218.1	5005.4	4843.5 ug/L	4843.5 ppb	18:15:34
1	Ca 317.933Radial†	2388.1	2207.7	4822.9 ug/L	4822.9 ppb	18:15:54
1	Fe 238.204 Radial†	369.0	336.8	4886.4 ug/L	4886.4 ppb	18:15:54
1	K 766.490 Radial†	30388.7	25346.5	4756.9 ug/L	4756.9 ppb	18:15:34
1	Mg 279.077 IEC†	103.9	94.7	4814.9 ug/L	4814.9 ppb	18:15:54
1	Na 589.592 Radial†	31928.8	25907.3	8891.1 ug/L	8891.1 ppb	18:15:34
1	Sr 421.552†	70329.7	64495.7	483.59 ug/L	483.59 ppb	18:15:34
1	Sc 361.383	786339.1	786339.1	104.66 %		18:16:51
1	Y 371.029	614634.8	614634.8	104.45 %		18:16:51
1	Ag 328.068†	99105.5	94366.5	491.91 ug/L	491.91 ppb	18:16:56
1	As 188.979†	1034.6	1009.2	471.72 ug/L	471.72 ppb	18:17:16
1	B 249.677†	19944.6	19498.6	481.96 ug/L	481.96 ppb	18:16:56
1	Ba 233.527†	58535.0	55783.7	476.04 ug/L	476.04 ppb	18:16:56
1	Be 313.107†	1251610.2	1200238.4	472.03 ug/L	472.03 ppb	18:16:51
1	Cd 226.502†	37224.2	35761.9	472.68 ug/L	472.68 ppb	18:16:56
1	Co 228.616†	22591.4	21655.9	474.59 ug/L	474.59 ppb	18:16:56
1	Cr 267.716†	38028.2	36257.2	474.81 ug/L	474.81 ppb	18:16:56
1	Cu 324.752†	169497.9	155498.9	484.39 ug/L	484.39 ppb	18:16:56
1	Mn 257.610†	420570.8	401373.7	475.24 ug/L	475.24 ppb	18:16:51
1	Mo 202.031†	6045.8	5766.7	472.30 ug/L	472.30 ppb	18:17:16
1	Ni 231.604†	17428.0	16572.9	471.23 ug/L	471.23 ppb	18:16:56
1	P 214.914†	4155.5	3759.4	2202.5 ug/L	2202.5 ppb	18:17:16
1	Pb 220.353†	3499.9	3323.2	463.62 ug/L	463.62 ppb	18:17:16
1	S 181.975 Axial†	723.5	653.9	939.58 ug/L	939.58 ppb	18:17:16
1	Sb 206.836†	1364.8	1267.7	481.45 ug/L	481.45 ppb	18:17:16
1	Se 196.026†	704.0	701.9	494.47 ug/L	494.47 ppb	18:17:16
1	Si 251.611†	75887.6	72012.2	2405.4 ug/L	2405.4 ppb	18:16:56
1	Sn 189.927†	2404.0	2281.6	459.93 ug/L	459.93 ppb	18:17:16
1	Ti 334.940†	298109.7	286316.5	475.18 ug/L	475.18 ppb	18:16:56
1	Tl 190.801†	1475.4	1442.3	487.46 ug/L	487.46 ppb	18:17:16
1	U 409.014†	12140.8	14663.3	532.08 ug/L	532.08 ppb	18:16:56
1	V 292.402†	59773.7	58805.0	488.00 ug/L	488.00 ppb	18:16:56
1	Zn 213.857†	48337.1	45541.1	473.53 ug/L	473.53 ppb	18:16:56
1	SiO2†	76348.5	72456.9	5151.9 ug/L	5151.9 ppb	18:18:24
2	Sc Radial	3818.9	3818.9	108 %		18:16:19
2	Y RADIAL	4314.2	4314.2	107.9 %		18:15:59
2	Al 396.153Radial†	5263.5	4987.9	4826.1 ug/L	4826.1 ppb	18:15:59
2	Ca 317.933Radial†	2400.3	2191.8	4788.0 ug/L	4788.0 ppb	18:16:19
2	Fe 238.204 Radial†	372.4	335.8	4871.6 ug/L	4871.6 ppb	18:16:19
2	K 766.490 Radial†	30542.0	25142.0	4718.5 ug/L	4718.5 ppb	18:15:59
2	Mg 279.077 IEC†	103.7	93.4	4744.1 ug/L	4744.1 ppb	18:16:19
2	Na 589.592 Radial†	32032.0	25638.8	8799.0 ug/L	8799.0 ppb	18:15:59
2	Sr 421.552†	70594.0	63938.5	479.41 ug/L	479.41 ppb	18:15:59
2	Sc 361.383	778683.6	778683.6	103.64 %		18:17:22
2	Y 371.029	609945.1	609945.1	103.65 %		18:17:22
2	Ag 328.068†	99334.7	95518.6	497.89 ug/L	497.89 ppb	18:17:27
2	As 188.979†	1048.0	1031.9	482.25 ug/L	482.25 ppb	18:17:47
2	B 249.677†	20150.2	19884.3	491.52 ug/L	491.52 ppb	18:17:27
2	Ba 233.527†	58373.3	56177.6	479.40 ug/L	479.40 ppb	18:17:27
2	Be 313.107†	1240436.6	1201214.4	472.43 ug/L	472.43 ppb	18:17:22
2	Cd 226.502†	37143.6	36033.9	476.28 ug/L	476.28 ppb	18:17:27
2	Co 228.616†	22533.3	21812.0	478.02 ug/L	478.02 ppb	18:17:27
2	Cr 267.716†	38073.5	36658.2	480.05 ug/L	480.05 ppb	18:17:27
2	Cu 324.752†	170345.6	157908.9	491.89 ug/L	491.89 ppb	18:17:27
2	Mn 257.610†	415330.4	400268.1	473.94 ug/L	473.94 ppb	18:17:22
2	Mo 202.031†	6099.6	5875.4	481.19 ug/L	481.19 ppb	18:17:47
2	Ni 231.604†	17386.8	16696.8	474.75 ug/L	474.75 ppb	18:17:27

2	P 214.914†	4166.1	3808.6	2231.1 ug/L	2231.1 ppb	18:17:47
2	Pb 220.353†	3541.6	3396.3	473.78 ug/L	473.78 ppb	18:17:47
2	S 181.975 Axial†	722.5	659.7	947.91 ug/L	947.91 ppb	18:17:47
2	Sb 206.836†	1361.1	1276.9	485.17 ug/L	485.17 ppb	18:17:47
2	Se 196.026†	700.9	705.6	496.92 ug/L	496.92 ppb	18:17:47
2	Si 251.611†	76322.3	73144.5	2443.2 ug/L	2443.2 ppb	18:17:27
2	Sn 189.927†	2430.8	2330.1	469.68 ug/L	469.68 ppb	18:17:47
2	Ti 334.940†	298263.5	289265.1	480.08 ug/L	480.08 ppb	18:17:27
2	Tl 190.801†	1453.5	1435.0	485.04 ug/L	485.04 ppb	18:17:47
2	U 409.014†	12209.7	14843.9	538.64 ug/L	538.64 ppb	18:17:27
2	V 292.402†	59662.5	59259.2	491.86 ug/L	491.86 ppb	18:17:27
2	Zn 213.857†	48280.3	45940.4	477.69 ug/L	477.69 ppb	18:17:27
2	SiO2†	75568.4	72421.4	5149.1 ug/L	5149.1 ppb	18:18:29
3	Sc Radial	3846.0	3846.0	109 %		18:16:44
3	Y RADIAL	4238.3	4238.3	106.0 %		18:16:24
3	Al 396.153Radial†	5178.9	4875.8	4717.2 ug/L	4717.2 ppb	18:16:24
3	Ca 317.933Radial†	2421.4	2195.5	4796.2 ug/L	4796.2 ppb	18:16:44
3	Fe 238.204 Radial†	376.4	337.0	4889.9 ug/L	4889.9 ppb	18:16:44
3	K 766.490 Radial†	30177.7	24607.8	4618.2 ug/L	4618.2 ppb	18:16:24
3	Mg 279.077 IEC†	105.2	94.1	4783.2 ug/L	4783.2 ppb	18:16:44
3	Na 589.592 Radial†	31648.7	25077.4	8606.3 ug/L	8606.3 ppb	18:16:24
3	Sr 421.552†	69597.9	62562.0	469.09 ug/L	469.09 ppb	18:16:24
3	Sc 361.383	783453.6	783453.6	104.28 %		18:17:53
3	Y 371.029	613134.4	613134.4	104.19 %		18:17:53
3	Ag 328.068†	98589.8	94220.7	491.16 ug/L	491.16 ppb	18:17:58
3	As 188.979†	1055.1	1032.5	482.48 ug/L	482.48 ppb	18:18:19
3	B 249.677†	19865.6	19493.0	481.81 ug/L	481.81 ppb	18:17:58
3	Ba 233.527†	58405.7	55865.7	476.73 ug/L	476.73 ppb	18:17:58
3	Be 313.107†	1250016.0	1203114.0	473.16 ug/L	473.16 ppb	18:17:53
3	Cd 226.502†	37284.9	35951.1	475.19 ug/L	475.19 ppb	18:17:58
3	Co 228.616†	22605.5	21748.9	476.64 ug/L	476.64 ppb	18:17:58
3	Cr 267.716†	38446.1	36791.8	481.79 ug/L	481.79 ppb	18:17:58
3	Cu 324.752†	171173.9	157702.6	491.25 ug/L	491.25 ppb	18:17:58
3	Mn 257.610†	419474.7	401802.5	475.75 ug/L	475.75 ppb	18:17:53
3	Mo 202.031†	6109.6	5849.1	479.04 ug/L	479.04 ppb	18:18:19
3	Ni 231.604†	17538.3	16740.0	475.98 ug/L	475.98 ppb	18:17:58
3	P 214.914†	4199.9	3816.6	2236.1 ug/L	2236.1 ppb	18:18:19
3	Pb 220.353†	3566.4	3399.3	474.18 ug/L	474.18 ppb	18:18:19
3	S 181.975 Axial†	727.9	660.7	949.31 ug/L	949.31 ppb	18:18:19
3	Sb 206.836†	1380.7	1287.7	489.10 ug/L	489.10 ppb	18:18:19
3	Se 196.026†	715.1	715.1	503.38 ug/L	503.38 ppb	18:18:19
3	Si 251.611†	76111.5	72494.0	2421.5 ug/L	2421.5 ppb	18:17:58
3	Sn 189.927†	2448.9	2333.1	470.30 ug/L	470.30 ppb	18:18:19
3	Ti 334.940†	296372.4	285699.4	474.16 ug/L	474.16 ppb	18:17:58
3	Tl 190.801†	1465.3	1437.7	485.92 ug/L	485.92 ppb	18:18:19
3	U 409.014†	11949.7	14522.8	526.95 ug/L	526.95 ppb	18:17:58
3	V 292.402†	59427.2	58683.0	487.09 ug/L	487.09 ppb	18:17:58
3	Zn 213.857†	48711.0	46069.8	479.04 ug/L	479.04 ppb	18:17:58
3	SiO2†	76290.2	72669.7	5166.9 ug/L	5166.9 ppb	18:18:34

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	782825.4	104.19 %		0.515			0.49%
Sc Radial	3812.5	108 %		1.1			0.98%
Y 371.029	612571.4	104.10 %		0.407			0.39%
Y RADIAL	4283.0	107.1 %		0.99			0.93%
Ag 328.068†	94701.9	493.65 ug/L		3.687	493.65 ppb	3.687	0.75%
QC value within limits for Ag 328.068 Recovery = 98.73%							
Al 396.153Radial†	4956.4	4795.6 ug/L		68.46	4795.6 ppb	68.46	1.43%
QC value within limits for Al 396.153Radial Recovery = 95.91%							
As 188.979†	1024.5	478.82 ug/L		6.147	478.82 ppb	6.147	1.28%
QC value within limits for As 188.979 Recovery = 95.76%							
B 249.677†	19625.3	485.10 ug/L		5.567	485.10 ppb	5.567	1.15%
QC value within limits for B 249.677 Recovery = 97.02%							
Ba 233.527†	55942.3	477.39 ug/L		1.774	477.39 ppb	1.774	0.37%
QC value within limits for Ba 233.527 Recovery = 95.48%							
Be 313.107†	1201522.3	472.54 ug/L		0.571	472.54 ppb	0.571	0.12%
QC value within limits for Be 313.107 Recovery = 94.51%							
Ca 317.933Radial†	2198.4	4802.4 ug/L		18.22	4802.4 ppb	18.22	0.38%

QC value within limits for Ca 317.933 Radial Recovery = 96.05%

Cd 226.502†	35915.6	474.72 ug/L	1.845	474.72 ppb	1.845	0.39%
QC value within limits for Cd 226.502 Recovery = 94.94%						
Co 228.616†	21738.9	476.41 ug/L	1.727	476.41 ppb	1.727	0.36%
QC value within limits for Co 228.616 Recovery = 95.28%						
Cr 267.716†	36569.0	478.88 ug/L	3.637	478.88 ppb	3.637	0.76%
QC value within limits for Cr 267.716 Recovery = 95.78%						
Cu 324.752†	157036.8	489.18 ug/L	4.161	489.18 ppb	4.161	0.85%
QC value within limits for Cu 324.752 Recovery = 97.84%						
Fe 238.204 Radial†	336.5	4882.6 ug/L	9.71	4882.6 ppb	9.71	0.20%
QC value within limits for Fe 238.204 Radial Recovery = 97.65%						
K 766.490 Radial†	25032.1	4697.9 ug/L	71.62	4697.9 ppb	71.62	1.52%
QC value within limits for K 766.490 Radial Recovery = 93.96%						
Mg 279.077 IEC†	94.1	4780.7 ug/L	35.46	4780.7 ppb	35.46	0.74%
QC value within limits for Mg 279.077 IEC Recovery = 95.61%						
Mn 257.610†	401148.1	474.98 ug/L	0.937	474.98 ppb	0.937	0.20%
QC value within limits for Mn 257.610 Recovery = 95.00%						
Mo 202.031†	5830.4	477.51 ug/L	4.641	477.51 ppb	4.641	0.97%
QC value within limits for Mo 202.031 Recovery = 95.50%						
Na 589.592 Radial†	25541.1	8765.4 ug/L	145.33	8765.4 ppb	145.33	1.66%
QC value less than the lower limit for Na 589.592 Radial Recovery = 87.65%						
Ni 231.604†	16669.9	473.99 ug/L	2.467	473.99 ppb	2.467	0.52%
QC value within limits for Ni 231.604 Recovery = 94.80%						
P 214.914†	3794.9	2223.2 ug/L	18.16	2223.2 ppb	18.16	0.82%
QC value less than the lower limit for P 214.914 Recovery = 88.93%						
Pb 220.353†	3372.9	470.53 ug/L	5.982	470.53 ppb	5.982	1.27%
QC value within limits for Pb 220.353 Recovery = 94.11%						
S 181.975 Axial†	658.1	945.60 ug/L	5.260	945.60 ppb	5.260	0.56%
QC value within limits for S 181.975 Axial Recovery = 94.56%						
Sb 206.836†	1277.4	485.24 ug/L	3.827	485.24 ppb	3.827	0.79%
QC value within limits for Sb 206.836 Recovery = 97.05%						
Se 196.026†	707.5	498.26 ug/L	4.604	498.26 ppb	4.604	0.92%
QC value within limits for Se 196.026 Recovery = 99.65%						
Si 251.611†	72550.2	2423.4 ug/L	18.97	2423.4 ppb	18.97	0.78%
QC value within limits for Si 251.611 Recovery = 96.93%						
Sn 189.927†	2314.9	466.64 ug/L	5.818	466.64 ppb	5.818	1.25%
QC value within limits for Sn 189.927 Recovery = 93.33%						
Sr 421.552†	63665.4	477.36 ug/L	7.464	477.36 ppb	7.464	1.56%
QC value within limits for Sr 421.552 Recovery = 95.47%						
Ti 334.940†	287093.7	476.47 ug/L	3.162	476.47 ppb	3.162	0.66%
QC value within limits for Ti 334.940 Recovery = 95.29%						
Tl 190.801†	1438.3	486.14 ug/L	1.221	486.14 ppb	1.221	0.25%
QC value within limits for Tl 190.801 Recovery = 97.23%						
U 409.014†	14676.7	532.55 ug/L	5.860	532.55 ppb	5.860	1.10%
QC value within limits for U 409.014 Recovery = 106.51%						
V 292.402†	58915.8	488.98 ug/L	2.530	488.98 ppb	2.530	0.52%
QC value within limits for V 292.402 Recovery = 97.80%						
Zn 213.857†	45850.4	476.76 ug/L	2.871	476.76 ppb	2.871	0.60%
QC value within limits for Zn 213.857 Recovery = 95.35%						
SiO2†	72516.0	5156.0 ug/L	9.55	5156.0 ppb	9.55	0.19%
QC value within limits for SiO2 Recovery = 96.42%						

QC Failed. Continue with analysis.

Sequence No.: 17

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/19/2010 18:20:45

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3785.6	3785.6	107 %		18:22:58
1	Y RADIAL	4364.7	4364.7	109.2 %		18:22:38
1	Al 396.153Radial†	-103.7	16.3	15.873 ug/L	15.873 ppb	18:22:58
1	Ca 317.933Radial†	33.9	0.5	1.0391 ug/L	1.0391 ppb	18:22:58
1	Fe 238.204 Radial†	11.0	1.1	16.569 ug/L	16.569 ppb	18:22:58
1	K 766.490 Radial†	2835.4	-495.1	-92.589 ug/L	-92.589 ppb	18:22:38
1	Mg 279.077 IEC†	4.5	1.5	76.937 ug/L	76.937 ppb	18:22:58
1	Na 589.592 Radial†	798.9	-3280.9	-1126.0 ug/L	-1126.0 ppb	18:22:38
1	Sr 421.552†	265.0	-1193.8	-8.9517 ug/L	-8.9517 ppb	18:22:38
1	Sc 361.383	768809.8	768809.8	102.33 %		18:23:55
1	Y 371.029	609316.0	609316.0	103.54 %		18:23:55
1	Ag 328.068†	313.6	-19.9	-0.1059 ug/L	-0.1059 ppb	18:23:55
1	As 188.979†	-22.9	-1.7	-0.7591 ug/L	-0.7591 ppb	18:24:15
1	B 249.677†	164.4	602.6	14.959 ug/L	14.959 ppb	18:24:15
1	Ba 233.527†	55.4	-90.9	-0.7698 ug/L	-0.7698 ppb	18:24:15
1	Be 313.107†	-4742.6	-278.9	-0.1087 ug/L	-0.1087 ppb	18:23:55
1	Cd 226.502†	-147.2	51.3	0.6803 ug/L	0.6803 ppb	18:24:15
1	Co 228.616†	-60.4	11.2	0.2454 ug/L	0.2454 ppb	18:24:15
1	Cr 267.716†	89.0	9.2	0.1167 ug/L	0.1167 ppb	18:24:15
1	Cu 324.752†	6041.6	-548.0	-1.7153 ug/L	-1.7153 ppb	18:23:55
1	Mn 257.610†	498.3	15.7	0.0171 ug/L	0.0171 ppb	18:24:15
1	Mo 202.031†	12.5	2.3	0.1862 ug/L	0.1862 ppb	18:24:15
1	Ni 231.604†	115.3	33.5	0.9542 ug/L	0.9542 ppb	18:24:15
1	P 214.914†	214.3	-1.7	-0.6586 ug/L	-0.6586 ppb	18:24:15
1	Pb 220.353†	-19.2	-39.6	-5.4983 ug/L	-5.4983 ppb	18:24:15
1	S 181.975 Axial†	42.3	3.9	5.6142 ug/L	5.6142 ppb	18:24:15
1	Sb 206.836†	43.6	6.2	2.3318 ug/L	2.3318 ppb	18:24:15
1	Se 196.026†	-10.7	18.8	12.796 ug/L	12.796 ppb	18:24:15
1	Si 251.611†	532.8	24.2	0.8082 ug/L	0.8082 ppb	18:24:15
1	Sn 189.927†	27.5	11.5	2.3194 ug/L	2.3194 ppb	18:24:15
1	Ti 334.940†	-1318.3	191.6	0.3047 ug/L	0.3047 ppb	18:23:55
1	Tl 190.801†	-19.4	13.6	4.5558 ug/L	4.5558 ppb	18:24:15
1	U 409.014†	-2670.0	453.8	16.514 ug/L	16.514 ppb	18:23:55
1	V 292.402†	-1556.6	171.5	1.4378 ug/L	1.4378 ppb	18:23:55
1	Zn 213.857†	702.8	43.0	0.4454 ug/L	0.4454 ppb	18:24:15
1	SiO2†	505.3	1.6	0.1057 ug/L	0.1057 ppb	18:25:11
2	Sc Radial	3807.9	3807.9	108 %		18:23:23
2	Y RADIAL	4345.8	4345.8	108.7 %		18:23:03
2	Al 396.153Radial†	-106.0	14.8	14.334 ug/L	14.334 ppb	18:23:23
2	Ca 317.933Radial†	29.6	-3.8	-8.1950 ug/L	-8.1950 ppb	18:23:23
2	Fe 238.204 Radial†	10.2	0.3	4.4953 ug/L	4.4953 ppb	18:23:23
2	K 766.490 Radial†	3014.6	-344.1	-64.219 ug/L	-64.219 ppb	18:23:03
2	Mg 279.077 IEC†	2.3	-0.5	-24.160 ug/L	-24.160 ppb	18:23:23
2	Na 589.592 Radial†	795.5	-3288.5	-1128.6 ug/L	-1128.6 ppb	18:23:03
2	Sr 421.552†	246.6	-1212.4	-9.0909 ug/L	-9.0909 ppb	18:23:03
2	Sc 361.383	776815.9	776815.9	103.39 %		18:24:20
2	Y 371.029	615392.7	615392.7	104.58 %		18:24:20
2	Ag 328.068†	181.0	-151.3	-0.7941 ug/L	-0.7941 ppb	18:24:20
2	As 188.979†	-25.4	-3.9	-1.8164 ug/L	-1.8164 ppb	18:24:40
2	B 249.677†	172.6	608.9	15.117 ug/L	15.117 ppb	18:24:40
2	Ba 233.527†	39.0	-107.4	-0.9112 ug/L	-0.9112 ppb	18:24:40
2	Be 313.107†	-4662.7	-153.9	-0.0593 ug/L	-0.0593 ppb	18:24:20
2	Cd 226.502†	-179.0	22.0	0.2941 ug/L	0.2941 ppb	18:24:40
2	Co 228.616†	-67.6	4.9	0.1071 ug/L	0.1071 ppb	18:24:40
2	Cr 267.716†	99.4	18.3	0.2333 ug/L	0.2333 ppb	18:24:40
2	Cu 324.752†	6083.5	-568.3	-1.7811 ug/L	-1.7811 ppb	18:24:20
2	Mn 257.610†	454.3	-31.9	-0.0364 ug/L	-0.0364 ppb	18:24:40
2	Mo 202.031†	16.4	5.8	0.4787 ug/L	0.4787 ppb	18:24:40
2	Ni 231.604†	87.5	5.5	0.1553 ug/L	0.1553 ppb	18:24:40

2	P 214.914†	221.3	2.9	2.1465 ug/L	2.1465 ppb	18:24:40
2	Pb 220.353†	-11.2	-31.7	-4.3955 ug/L	-4.3955 ppb	18:24:40
2	S 181.975 Axial†	42.6	3.8	5.4584 ug/L	5.4584 ppb	18:24:40
2	Sb 206.836†	48.8	10.8	3.9778 ug/L	3.9778 ppb	18:24:40
2	Se 196.026†	-24.0	6.1	4.1501 ug/L	4.1501 ppb	18:24:40
2	Si 251.611†	524.9	11.1	0.3672 ug/L	0.3672 ppb	18:24:40
2	Sn 189.927†	18.9	3.0	0.5948 ug/L	0.5948 ppb	18:24:40
2	Ti 334.940†	-1230.7	289.6	0.4730 ug/L	0.4730 ppb	18:24:20
2	Tl 190.801†	-22.1	11.2	3.7704 ug/L	3.7704 ppb	18:24:40
2	U 409.014†	-2607.9	540.8	19.681 ug/L	19.681 ppb	18:24:20
2	V 292.402†	-1604.8	140.5	1.1936 ug/L	1.1936 ppb	18:24:20
2	Zn 213.857†	689.4	23.0	0.2423 ug/L	0.2423 ppb	18:24:40
2	SiO2†	517.4	8.2	0.5704 ug/L	0.5704 ppb	18:25:16
3	Sc Radial	3821.7	3821.7	108 %		18:23:48
3	Y RADIAL	4386.6	4386.6	109.7 %		18:23:28
3	Al 396.153Radial†	-113.5	8.2	7.8946 ug/L	7.8946 ppb	18:23:48
3	Ca 317.933Radial†	23.3	-9.6	-21.069 ug/L	-21.069 ppb	18:23:48
3	Fe 238.204 Radial†	10.9	0.9	13.304 ug/L	13.304 ppb	18:23:48
3	K 766.490 Radial†	2916.5	-445.0	-83.172 ug/L	-83.172 ppb	18:23:28
3	Mg 279.077 IEC†	2.1	-0.7	-35.126 ug/L	-35.126 ppb	18:23:48
3	Na 589.592 Radial†	766.6	-3317.9	-1138.7 ug/L	-1138.7 ppb	18:23:28
3	Sr 421.552†	140.5	-1311.4	-9.8337 ug/L	-9.8337 ppb	18:23:28
3	Sc 361.383	774865.8	774865.8	103.13 %		18:24:45
3	Y 371.029	613653.6	613653.6	104.28 %		18:24:45
3	Ag 328.068†	213.7	-119.2	-0.6237 ug/L	-0.6237 ppb	18:24:45
3	As 188.979†	-19.7	1.6	0.7452 ug/L	0.7452 ppb	18:25:05
3	B 249.677†	113.7	552.2	13.708 ug/L	13.708 ppb	18:25:05
3	Ba 233.527†	58.3	-88.5	-0.7504 ug/L	-0.7504 ppb	18:25:05
3	Be 313.107†	-4702.0	-203.4	-0.0787 ug/L	-0.0787 ppb	18:24:45
3	Cd 226.502†	-165.9	34.3	0.4553 ug/L	0.4553 ppb	18:25:05
3	Co 228.616†	-73.4	-0.8	-0.0176 ug/L	-0.0176 ppb	18:25:05
3	Cr 267.716†	89.0	8.5	0.1068 ug/L	0.1068 ppb	18:25:05
3	Cu 324.752†	6077.8	-559.0	-1.7513 ug/L	-1.7513 ppb	18:24:45
3	Mn 257.610†	421.6	-62.6	-0.0713 ug/L	-0.0713 ppb	18:25:05
3	Mo 202.031†	21.7	11.1	0.9067 ug/L	0.9067 ppb	18:25:05
3	Ni 231.604†	81.4	-0.2	-0.0056 ug/L	-0.0056 ppb	18:25:05
3	P 214.914†	210.6	-6.9	-3.8605 ug/L	-3.8605 ppb	18:25:05
3	Pb 220.353†	-29.4	-49.4	-6.8566 ug/L	-6.8566 ppb	18:25:05
3	S 181.975 Axial†	42.6	3.9	5.6416 ug/L	5.6416 ppb	18:25:05
3	Sb 206.836†	46.3	8.5	3.1704 ug/L	3.1704 ppb	18:25:05
3	Se 196.026†	-19.8	10.1	6.8722 ug/L	6.8722 ppb	18:25:05
3	Si 251.611†	530.3	17.7	0.5806 ug/L	0.5806 ppb	18:25:05
3	Sn 189.927†	25.6	9.4	1.8978 ug/L	1.8978 ppb	18:25:05
3	Ti 334.940†	-1225.3	291.8	0.4761 ug/L	0.4761 ppb	18:24:45
3	Tl 190.801†	-25.7	7.6	2.5505 ug/L	2.5505 ppb	18:25:05
3	U 409.014†	-2616.9	525.7	19.131 ug/L	19.131 ppb	18:24:45
3	V 292.402†	-1587.7	153.3	1.3014 ug/L	1.3014 ppb	18:24:45
3	Zn 213.857†	703.3	38.1	0.4004 ug/L	0.4004 ppb	18:25:05
3	SiO2†	556.4	47.3	3.3437 ug/L	3.3437 ppb	18:25:21

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	773497.2	102.95 %	0.556			0.54%
Sc Radial	3805.1	108 %	0.5			0.48%
Y 371.029	612787.4	104.13 %	0.532			0.51%
Y RADIAL	4365.7	109.2 %	0.51			0.47%
Ag 328.068†	-96.8	-0.5079 ug/L	0.35839	-0.5079 ppb	0.35839	70.56%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	13.1	12.701 ug/L	4.2326	12.701 ppb	4.2326	33.33%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.3	-0.6101 ug/L	1.28729	-0.6101 ppb	1.28729	210.99%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	587.9	14.595 ug/L	0.7715	14.595 ppb	0.7715	5.29%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-95.6	-0.8105 ug/L	0.08775	-0.8105 ppb	0.08775	10.83%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-212.1	-0.0822 ug/L	0.02490	-0.0822 ppb	0.02490	30.28%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-4.3	-9.4082 ug/L	11.10370	-9.4082 ppb	11.10370	118.02%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd	226.502†	35.8	0.4766 ug/L	0.19399	0.4766 ppb	0.19399	40.70%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	5.1	0.1116 ug/L	0.13155	0.1116 ppb	0.13155	117.84%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	12.0	0.1523 ug/L	0.07036	0.1523 ppb	0.07036	46.21%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-558.4	-1.7492 ug/L	0.03296	-1.7492 ppb	0.03296	1.88%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	0.8	11.456 ug/L	6.2452	11.456 ppb	6.2452	54.52%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	-428.1	-79.993 ug/L	14.4496	-79.993 ppb	14.4496	18.06%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	0.1	5.8839 ug/L	61.77795	5.8839 ppb	61.77795	>999.9%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	-26.3	-0.0302 ug/L	0.04450	-0.0302 ppb	0.04450	147.40%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	6.4	0.5239 ug/L	0.36237	0.5239 ppb	0.36237	69.17%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-3295.8	-1131.1 ug/L	6.70	-1131.1 ppb	6.70	0.59%
QC value less than the lower limit for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	12.9	0.3680 ug/L	0.51404	0.3680 ppb	0.51404	139.70%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-1.9	-0.7909 ug/L	3.00571	-0.7909 ppb	3.00571	380.05%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-40.2	-5.5835 ug/L	1.23277	-5.5835 ppb	1.23277	22.08%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	3.9	5.5714 ug/L	0.09882	5.5714 ppb	0.09882	1.77%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	8.5	3.1600 ug/L	0.82305	3.1600 ppb	0.82305	26.05%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	11.7	7.9394 ug/L	4.42055	7.9394 ppb	4.42055	55.68%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	17.7	0.5853 ug/L	0.22052	0.5853 ppb	0.22052	37.67%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	8.0	1.6040 ug/L	0.89903	1.6040 ppb	0.89903	56.05%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-1239.2	-9.2921 ug/L	0.47420	-9.2921 ppb	0.47420	5.10%
QC value less than the lower limit for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	257.7	0.4179 ug/L	0.09806	0.4179 ppb	0.09806	23.46%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	10.8	3.6256 ug/L	1.01047	3.6256 ppb	1.01047	27.87%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	506.7	18.442 ug/L	1.6922	18.442 ppb	1.6922	9.18%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	155.1	1.3109 ug/L	0.12237	1.3109 ppb	0.12237	9.33%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	34.7	0.3627 ug/L	0.10665	0.3627 ppb	0.10665	29.40%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		19.0	1.3399 ug/L	1.75078	1.3399 ppb	1.75078	130.66%
QC value within limits for SiO2 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 25

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/19/2010 19:15:38

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3839.8	3839.8	109 %		19:17:50
1	Y RADIAL	4381.7	4381.7	109.6 %		19:17:30
1	Al 396.153Radial†	5360.8	5051.1	4887.5 ug/L	4887.5 ppb	19:17:30
1	Ca 317.933Radial†	2455.3	2230.4	4872.3 ug/L	4872.3 ppb	19:17:50
1	Fe 238.204 Radial†	372.5	334.0	4845.6 ug/L	4845.6 ppb	19:17:50
1	K 766.490 Radial†	31019.3	25428.1	4772.3 ug/L	4772.3 ppb	19:17:30
1	Mg 279.077 IEC†	110.4	99.1	5035.1 ug/L	5035.1 ppb	19:17:50
1	Na 589.592 Radial†	31946.5	25399.0	8716.7 ug/L	8716.7 ppb	19:17:30
1	Sr 421.552†	70910.4	63875.1	478.94 ug/L	478.94 ppb	19:17:30
1	Sc 361.383	806350.2	806350.2	107.32 %		19:18:47
1	Y 371.029	630827.4	630827.4	107.20 %		19:18:47
1	Ag 328.068†	101538.9	94283.9	491.48 ug/L	491.48 ppb	19:18:52
1	As 188.979†	1098.5	1044.2	487.92 ug/L	487.92 ppb	19:19:13
1	B 249.677†	20173.9	19239.2	475.51 ug/L	475.51 ppb	19:18:52
1	Ba 233.527†	60291.4	56032.3	478.15 ug/L	478.15 ppb	19:18:52
1	Be 313.107†	1299464.6	1215149.3	477.88 ug/L	477.88 ppb	19:18:47
1	Cd 226.502†	38603.4	36164.4	478.01 ug/L	478.01 ppb	19:18:52
1	Co 228.616†	23379.1	21854.1	478.95 ug/L	478.95 ppb	19:18:52
1	Cr 267.716†	39215.5	36461.7	477.48 ug/L	477.48 ppb	19:18:52
1	Cu 324.752†	172838.5	154592.4	481.56 ug/L	481.56 ppb	19:18:52
1	Mn 257.610†	434566.7	404441.9	478.86 ug/L	478.86 ppb	19:18:47
1	Mo 202.031†	6325.9	5884.3	481.92 ug/L	481.92 ppb	19:19:13
1	Ni 231.604†	18093.2	16779.5	477.10 ug/L	477.10 ppb	19:18:52
1	P 214.914†	4387.2	3876.7	2274.9 ug/L	2274.9 ppb	19:19:13
1	Pb 220.353†	3676.0	3404.3	474.93 ug/L	474.93 ppb	19:19:13
1	S 181.975 Axial†	756.9	667.9	959.66 ug/L	959.66 ppb	19:19:13
1	Sb 206.836†	1432.9	1298.8	493.40 ug/L	493.40 ppb	19:19:13
1	Se 196.026†	743.0	721.6	507.71 ug/L	507.71 ppb	19:19:13
1	Si 251.611†	78365.2	72521.3	2422.3 ug/L	2422.3 ppb	19:18:52
1	Sn 189.927†	2576.4	2385.3	480.82 ug/L	480.82 ppb	19:19:13
1	Ti 334.940†	305357.6	286000.9	474.65 ug/L	474.65 ppb	19:18:52
1	Tl 190.801†	1522.5	1451.2	490.44 ug/L	490.44 ppb	19:19:13
1	U 409.014†	12296.9	14520.9	526.89 ug/L	526.89 ppb	19:18:52
1	V 292.402†	61399.0	58902.0	488.93 ug/L	488.93 ppb	19:18:52
1	Zn 213.857†	49871.0	45824.2	476.48 ug/L	476.48 ppb	19:18:52
1	SiO2†	78477.6	72630.3	5164.0 ug/L	5164.0 ppb	19:20:20
2	Sc Radial	3848.0	3848.0	109 %		19:18:15
2	Y RADIAL	4334.4	4334.4	108.4 %		19:17:55
2	Al 396.153Radial†	5332.9	5014.9	4851.8 ug/L	4851.8 ppb	19:17:55
2	Ca 317.933Radial†	2474.5	2243.2	4900.3 ug/L	4900.3 ppb	19:18:15
2	Fe 238.204 Radial†	374.3	334.9	4859.4 ug/L	4859.4 ppb	19:18:15
2	K 766.490 Radial†	30801.1	25166.4	4723.1 ug/L	4723.1 ppb	19:17:55
2	Mg 279.077 IEC†	106.9	95.6	4860.2 ug/L	4860.2 ppb	19:18:15
2	Na 589.592 Radial†	31770.6	25174.3	8639.5 ug/L	8639.5 ppb	19:17:55
2	Sr 421.552†	70265.0	63141.9	473.44 ug/L	473.44 ppb	19:17:55
2	Sc 361.383	797398.2	797398.2	106.13 %		19:19:18
2	Y 371.029	623849.1	623849.1	106.01 %		19:19:18
2	Ag 328.068†	101342.6	95161.1	496.04 ug/L	496.04 ppb	19:19:23
2	As 188.979†	1094.9	1052.3	491.69 ug/L	491.69 ppb	19:19:44
2	B 249.677†	20141.5	19419.8	479.97 ug/L	479.97 ppb	19:19:23
2	Ba 233.527†	60347.4	56715.7	483.98 ug/L	483.98 ppb	19:19:23
2	Be 313.107†	1290357.6	1220161.5	479.86 ug/L	479.86 ppb	19:19:18
2	Cd 226.502†	38637.2	36600.0	483.77 ug/L	483.77 ppb	19:19:23
2	Co 228.616†	23462.3	22177.0	486.04 ug/L	486.04 ppb	19:19:23
2	Cr 267.716†	39129.4	36790.8	481.79 ug/L	481.79 ppb	19:19:23
2	Cu 324.752†	172309.7	155902.1	485.64 ug/L	485.64 ppb	19:19:23
2	Mn 257.610†	431450.5	406051.6	480.77 ug/L	480.77 ppb	19:19:18
2	Mo 202.031†	6374.3	5996.1	491.07 ug/L	491.07 ppb	19:19:44
2	Ni 231.604†	18107.8	16982.5	482.87 ug/L	482.87 ppb	19:19:23

2	P 214.914†	4431.4	3964.3	2327.7 ug/L	2327.7 ppb	19:19:44
2	Pb 220.353†	3715.6	3480.0	485.46 ug/L	485.46 ppb	19:19:44
2	S 181.975 Axial†	756.5	675.4	970.46 ug/L	970.46 ppb	19:19:44
2	Sb 206.836†	1444.5	1324.6	503.18 ug/L	503.18 ppb	19:19:44
2	Se 196.026†	745.3	731.5	514.46 ug/L	514.46 ppb	19:19:44
2	Si 251.611†	78024.5	73020.0	2438.9 ug/L	2438.9 ppb	19:19:23
2	Sn 189.927†	2591.0	2426.0	489.02 ug/L	489.02 ppb	19:19:44
2	Ti 334.940†	305186.6	289034.0	479.70 ug/L	479.70 ppb	19:19:23
2	Tl 190.801†	1532.7	1476.7	499.01 ug/L	499.01 ppb	19:19:44
2	U 409.014†	12438.7	14783.2	536.43 ug/L	536.43 ppb	19:19:23
2	V 292.402†	61425.2	59569.0	494.53 ug/L	494.53 ppb	19:19:23
2	Zn 213.857†	49844.4	46320.8	481.65 ug/L	481.65 ppb	19:19:23
2	SiO2†	78243.4	73230.6	5206.6 ug/L	5206.6 ppb	19:20:25
3	Sc Radial	3863.9	3863.9	109 %		19:18:40
3	Y RADIAL	4405.4	4405.4	110.2 %		19:18:20
3	Al 396.153Radial†	5373.7	5032.2	4869.0 ug/L	4869.0 ppb	19:18:20
3	Ca 317.933Radial†	2469.7	2229.4	4870.1 ug/L	4870.1 ppb	19:18:40
3	Fe 238.204 Radial†	373.0	332.3	4821.6 ug/L	4821.6 ppb	19:18:40
3	K 766.490 Radial†	31081.6	25306.9	4749.5 ug/L	4749.5 ppb	19:18:20
3	Mg 279.077 IEC†	106.4	94.7	4813.4 ug/L	4813.4 ppb	19:18:40
3	Na 589.592 Radial†	32046.8	25307.3	8685.2 ug/L	8685.2 ppb	19:18:20
3	Sr 421.552†	71272.1	63798.7	478.36 ug/L	478.36 ppb	19:18:20
3	Sc 361.383	804189.6	804189.6	107.04 %		19:19:49
3	Y 371.029	629097.4	629097.4	106.91 %		19:19:49
3	Ag 328.068†	101830.4	94810.4	494.21 ug/L	494.21 ppb	19:19:55
3	As 188.979†	1088.4	1037.5	484.81 ug/L	484.81 ppb	19:20:15
3	B 249.677†	20390.4	19492.0	481.78 ug/L	481.78 ppb	19:19:55
3	Ba 233.527†	60665.8	56533.0	482.42 ug/L	482.42 ppb	19:19:55
3	Be 313.107†	1302878.6	1221591.8	480.41 ug/L	480.41 ppb	19:19:49
3	Cd 226.502†	39046.4	36674.9	484.77 ug/L	484.77 ppb	19:19:55
3	Co 228.616†	23542.4	22065.2	483.58 ug/L	483.58 ppb	19:19:55
3	Cr 267.716†	39522.6	36846.8	482.51 ug/L	482.51 ppb	19:19:55
3	Cu 324.752†	172889.0	155072.3	483.05 ug/L	483.05 ppb	19:19:55
3	Mn 257.610†	435735.3	406621.7	481.45 ug/L	481.45 ppb	19:19:49
3	Mo 202.031†	6324.5	5898.8	483.11 ug/L	483.11 ppb	19:20:15
3	Ni 231.604†	18216.9	16940.3	481.68 ug/L	481.68 ppb	19:19:55
3	P 214.914†	4385.6	3886.2	2280.5 ug/L	2280.5 ppb	19:20:15
3	Pb 220.353†	3680.7	3417.9	476.82 ug/L	476.82 ppb	19:20:15
3	S 181.975 Axial†	761.8	674.3	968.89 ug/L	968.89 ppb	19:20:15
3	Sb 206.836†	1435.0	1304.3	495.44 ug/L	495.44 ppb	19:20:15
3	Se 196.026†	731.2	712.4	501.38 ug/L	501.38 ppb	19:20:15
3	Si 251.611†	78672.8	73004.8	2438.5 ug/L	2438.5 ppb	19:19:55
3	Sn 189.927†	2570.2	2385.9	480.95 ug/L	480.95 ppb	19:20:15
3	Ti 334.940†	306026.7	287390.5	476.97 ug/L	476.97 ppb	19:19:55
3	Tl 190.801†	1540.7	1472.0	497.44 ug/L	497.44 ppb	19:20:15
3	U 409.014†	12413.6	14660.8	531.97 ug/L	531.97 ppb	19:19:55
3	V 292.402†	61672.5	59311.3	492.31 ug/L	492.31 ppb	19:19:55
3	Zn 213.857†	50251.8	46304.8	481.49 ug/L	481.49 ppb	19:19:55
3	SiO2†	78294.5	72655.8	5165.8 ug/L	5165.8 ppb	19:20:30

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	802646.0	106.83 %	0.622			0.58%
Sc Radial	3850.5	109 %	0.3			0.32%
Y 371.029	627924.6	106.71 %	0.618			0.58%
Y RADIAL	4373.8	109.4 %	0.90			0.83%
Ag 328.068†	94751.8	493.91 ug/L	2.296	493.91 ppb	2.296	0.46%
QC value within limits for Ag 328.068 Recovery = 98.78%						
Al 396.153Radial†	5032.7	4869.4 ug/L	17.84	4869.4 ppb	17.84	0.37%
QC value within limits for Al 396.153Radial Recovery = 97.39%						
As 188.979†	1044.7	488.14 ug/L	3.443	488.14 ppb	3.443	0.71%
QC value within limits for As 188.979 Recovery = 97.63%						
B 249.677†	19383.7	479.09 ug/L	3.226	479.09 ppb	3.226	0.67%
QC value within limits for B 249.677 Recovery = 95.82%						
Ba 233.527†	56427.0	481.52 ug/L	3.018	481.52 ppb	3.018	0.63%
QC value within limits for Ba 233.527 Recovery = 96.30%						
Be 313.107†	1218967.5	479.38 ug/L	1.332	479.38 ppb	1.332	0.28%
QC value within limits for Be 313.107 Recovery = 95.88%						
Ca 317.933Radial†	2234.3	4880.9 ug/L	16.81	4880.9 ppb	16.81	0.34%

QC value within limits for Ca 317.933 Radial Recovery = 97.62%

Cd	226.502†	36479.7	482.18 ug/L	3.648	482.18 ppb	3.648	0.76%
QC value within limits for Cd 226.502 Recovery = 96.44%							
Co	228.616†	22032.1	482.86 ug/L	3.599	482.86 ppb	3.599	0.75%
QC value within limits for Co 228.616 Recovery = 96.57%							
Cr	267.716†	36699.8	480.59 ug/L	2.721	480.59 ppb	2.721	0.57%
QC value within limits for Cr 267.716 Recovery = 96.12%							
Cu	324.752†	155188.9	483.42 ug/L	2.062	483.42 ppb	2.062	0.43%
QC value within limits for Cu 324.752 Recovery = 96.68%							
Fe	238.204 Radial†	333.7	4842.2 ug/L	19.13	4842.2 ppb	19.13	0.39%
QC value within limits for Fe 238.204 Radial Recovery = 96.84%							
K	766.490 Radial†	25300.5	4748.3 ug/L	24.61	4748.3 ppb	24.61	0.52%
QC value within limits for K 766.490 Radial Recovery = 94.97%							
Mg	279.077 IEC†	96.5	4902.9 ug/L	116.84	4902.9 ppb	116.84	2.38%
QC value within limits for Mg 279.077 IEC Recovery = 98.06%							
Mn	257.610†	405705.1	480.36 ug/L	1.342	480.36 ppb	1.342	0.28%
QC value within limits for Mn 257.610 Recovery = 96.07%							
Mo	202.031†	5926.4	485.37 ug/L	4.976	485.37 ppb	4.976	1.03%
QC value within limits for Mo 202.031 Recovery = 97.07%							
Na	589.592 Radial†	25293.5	8680.5 ug/L	38.78	8680.5 ppb	38.78	0.45%
QC value less than the lower limit for Na 589.592 Radial Recovery = 86.80%							
Ni	231.604†	16900.8	480.55 ug/L	3.045	480.55 ppb	3.045	0.63%
QC value within limits for Ni 231.604 Recovery = 96.11%							
P	214.914†	3909.1	2294.4 ug/L	28.99	2294.4 ppb	28.99	1.26%
QC value within limits for P 214.914 Recovery = 91.77%							
Pb	220.353†	3434.1	479.07 ug/L	5.616	479.07 ppb	5.616	1.17%
QC value within limits for Pb 220.353 Recovery = 95.81%							
S	181.975 Axial†	672.5	966.34 ug/L	5.835	966.34 ppb	5.835	0.60%
QC value within limits for S 181.975 Axial Recovery = 96.63%							
Sb	206.836†	1309.2	497.34 ug/L	5.164	497.34 ppb	5.164	1.04%
QC value within limits for Sb 206.836 Recovery = 99.47%							
Se	196.026†	721.8	507.85 ug/L	6.544	507.85 ppb	6.544	1.29%
QC value within limits for Se 196.026 Recovery = 101.57%							
Si	251.611†	72848.7	2433.3 ug/L	9.46	2433.3 ppb	9.46	0.39%
QC value within limits for Si 251.611 Recovery = 97.33%							
Sn	189.927†	2399.1	483.59 ug/L	4.697	483.59 ppb	4.697	0.97%
QC value within limits for Sn 189.927 Recovery = 96.72%							
Sr	421.552†	63605.2	476.91 ug/L	3.023	476.91 ppb	3.023	0.63%
QC value within limits for Sr 421.552 Recovery = 95.38%							
Ti	334.940†	287475.1	477.11 ug/L	2.527	477.11 ppb	2.527	0.53%
QC value within limits for Ti 334.940 Recovery = 95.42%							
Tl	190.801†	1466.6	495.63 ug/L	4.561	495.63 ppb	4.561	0.92%
QC value within limits for Tl 190.801 Recovery = 99.13%							
U	409.014†	14654.9	531.76 ug/L	4.771	531.76 ppb	4.771	0.90%
QC value within limits for U 409.014 Recovery = 106.35%							
V	292.402†	59260.8	491.92 ug/L	2.818	491.92 ppb	2.818	0.57%
QC value within limits for V 292.402 Recovery = 98.38%							
Zn	213.857†	46150.0	479.87 ug/L	2.941	479.87 ppb	2.941	0.61%
QC value within limits for Zn 213.857 Recovery = 95.97%							
SiO2†		72838.9	5178.8 ug/L	24.06	5178.8 ppb	24.06	0.46%
QC value within limits for SiO2 Recovery = 96.84%							

QC Failed. Continue with analysis.

Sequence No.: 26

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/19/2010 19:22:41

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3898.9	3898.9	110 %		19:24:53
1	Y RADIAL	4463.1	4463.1	111.6 %		19:24:33
1	Al 396.153Radial†	-112.9	10.8	10.488 ug/L	10.488 ppb	19:24:53
1	Ca 317.933Radial†	29.9	-4.1	-9.0648 ug/L	-9.0648 ppb	19:24:53
1	Fe 238.204 Radial†	9.0	-1.0	-14.013 ug/L	-14.013 ppb	19:24:53
1	K 766.490 Radial†	2866.8	-543.5	-101.70 ug/L	-101.70 ppb	19:24:33
1	Mg 279.077 IEC†	0.1	-2.6	-131.25 ug/L	-131.25 ppb	19:24:53
1	Na 589.592 Radial†	887.1	-3222.6	-1106.0 ug/L	-1106.0 ppb	19:24:33
1	Sr 421.552†	355.6	-1118.9	-8.3899 ug/L	-8.3899 ppb	19:24:33
1	Sc 361.383	781448.2	781448.2	104.01 %		19:25:50
1	Y 371.029	620728.2	620728.2	105.48 %		19:25:50
1	Ag 328.068†	129.6	-201.8	-1.0580 ug/L	-1.0580 ppb	19:25:50
1	As 188.979†	-22.5	-0.9	-0.4403 ug/L	-0.4403 ppb	19:26:10
1	B 249.677†	-55.8	388.3	9.6419 ug/L	9.6419 ppb	19:26:10
1	Ba 233.527†	56.6	-90.6	-0.7685 ug/L	-0.7685 ppb	19:26:10
1	Be 313.107†	-4525.5	4.7	0.0025 ug/L	0.0025 ppb	19:25:50
1	Cd 226.502†	-190.1	12.4	0.1682 ug/L	0.1682 ppb	19:26:10
1	Co 228.616†	-64.6	8.2	0.1806 ug/L	0.1806 ppb	19:26:10
1	Cr 267.716†	93.1	11.7	0.1465 ug/L	0.1465 ppb	19:26:10
1	Cu 324.752†	5999.3	-684.2	-2.1415 ug/L	-2.1415 ppb	19:25:50
1	Mn 257.610†	442.1	-46.2	-0.0507 ug/L	-0.0507 ppb	19:26:10
1	Mo 202.031†	15.2	4.7	0.3797 ug/L	0.3797 ppb	19:26:10
1	Ni 231.604†	71.7	-10.2	-0.2907 ug/L	-0.2907 ppb	19:26:10
1	P 214.914†	212.3	-7.0	-3.8659 ug/L	-3.8659 ppb	19:26:10
1	Pb 220.353†	-19.1	-39.3	-5.4507 ug/L	-5.4507 ppb	19:26:10
1	S 181.975 Axial†	42.3	3.3	4.7439 ug/L	4.7439 ppb	19:26:10
1	Sb 206.836†	42.5	4.5	1.6361 ug/L	1.6361 ppb	19:26:10
1	Se 196.026†	-24.6	5.6	3.7812 ug/L	3.7812 ppb	19:26:10
1	Si 251.611†	574.5	55.9	1.8654 ug/L	1.8654 ppb	19:26:10
1	Sn 189.927†	13.3	-2.6	-0.5152 ug/L	-0.5152 ppb	19:26:10
1	Ti 334.940†	-1355.3	176.9	0.2956 ug/L	0.2956 ppb	19:25:50
1	Tl 190.801†	-19.1	14.2	4.7709 ug/L	4.7709 ppb	19:26:10
1	U 409.014†	-2699.4	467.8	17.027 ug/L	17.027 ppb	19:25:50
1	V 292.402†	-1581.4	172.3	1.4482 ug/L	1.4482 ppb	19:25:50
1	Zn 213.857†	655.5	-13.5	-0.1348 ug/L	-0.1348 ppb	19:26:10
1	SiO2†	543.3	30.2	2.1399 ug/L	2.1399 ppb	19:27:06
2	Sc Radial	3862.3	3862.3	109 %		19:25:18
2	Y RADIAL	4460.5	4460.5	111.5 %		19:24:58
2	Al 396.153Radial†	-122.9	0.7	0.6588 ug/L	0.6588 ppb	19:25:18
2	Ca 317.933Radial†	32.1	-1.9	-4.0577 ug/L	-4.0577 ppb	19:25:18
2	Fe 238.204 Radial†	8.5	-1.4	-20.428 ug/L	-20.428 ppb	19:25:18
2	K 766.490 Radial†	2927.1	-463.7	-86.709 ug/L	-86.709 ppb	19:24:58
2	Mg 279.077 IEC†	0.7	-2.0	-103.04 ug/L	-103.04 ppb	19:25:18
2	Na 589.592 Radial†	916.7	-3187.9	-1094.1 ug/L	-1094.1 ppb	19:24:58
2	Sr 421.552†	147.6	-1306.3	-9.7950 ug/L	-9.7950 ppb	19:24:58
2	Sc 361.383	783430.4	783430.4	104.27 %		19:26:15
2	Y 371.029	622085.4	622085.4	105.71 %		19:26:15
2	Ag 328.068†	234.3	-101.6	-0.5395 ug/L	-0.5395 ppb	19:26:15
2	As 188.979†	-18.6	2.8	1.2971 ug/L	1.2971 ppb	19:26:35
2	B 249.677†	-98.0	348.0	8.6426 ug/L	8.6426 ppb	19:26:35
2	Ba 233.527†	16.0	-129.7	-1.1019 ug/L	-1.1019 ppb	19:26:35
2	Be 313.107†	-4537.9	3.8	0.0024 ug/L	0.0024 ppb	19:26:15
2	Cd 226.502†	-184.0	18.7	0.2517 ug/L	0.2517 ppb	19:26:35
2	Co 228.616†	-71.0	2.2	0.0484 ug/L	0.0484 ppb	19:26:35
2	Cr 267.716†	94.2	12.5	0.1574 ug/L	0.1574 ppb	19:26:35
2	Cu 324.752†	5872.8	-820.0	-2.5636 ug/L	-2.5636 ppb	19:26:15
2	Mn 257.610†	475.2	-15.6	-0.0162 ug/L	-0.0162 ppb	19:26:35
2	Mo 202.031†	12.6	2.1	0.1738 ug/L	0.1738 ppb	19:26:35
2	Ni 231.604†	92.2	9.3	0.2649 ug/L	0.2649 ppb	19:26:35

2	P 214.914†	203.8	-15.7	-9.0419 ug/L	-9.0419 ppb	19:26:35
2	Pb 220.353†	-27.5	-47.2	-6.5544 ug/L	-6.5544 ppb	19:26:35
2	S 181.975 Axial†	48.2	8.9	12.780 ug/L	12.780 ppb	19:26:35
2	Sb 206.836†	36.7	-1.2	-0.3873 ug/L	-0.3873 ppb	19:26:35
2	Se 196.026†	-28.9	1.6	0.9961 ug/L	0.9961 ppb	19:26:35
2	Si 251.611†	564.8	45.1	1.5092 ug/L	1.5092 ppb	19:26:35
2	Sn 189.927†	26.6	10.2	2.0538 ug/L	2.0538 ppb	19:26:35
2	Ti 334.940†	-1303.7	229.7	0.3830 ug/L	0.3830 ppb	19:26:15
2	Tl 190.801†	-16.8	16.4	5.5156 ug/L	5.5156 ppb	19:26:35
2	U 409.014†	-2788.1	389.3	14.170 ug/L	14.170 ppb	19:26:15
2	V 292.402†	-1611.9	146.8	1.2325 ug/L	1.2325 ppb	19:26:15
2	Zn 213.857†	673.3	1.9	0.0247 ug/L	0.0247 ppb	19:26:35
2	SiO2†	556.2	41.2	2.9349 ug/L	2.9349 ppb	19:27:11
3	Sc Radial	3862.4	3862.4	109 %		19:25:43
3	Y RADIAL	4412.3	4412.3	110.3 %		19:25:23
3	Al 396.153Radial†	-108.7	13.7	13.315 ug/L	13.315 ppb	19:25:43
3	Ca 317.933Radial†	29.3	-4.5	-9.7254 ug/L	-9.7254 ppb	19:25:43
3	Fe 238.204 Radial†	8.6	-1.3	-18.457 ug/L	-18.457 ppb	19:25:43
3	K 766.490 Radial†	2971.8	-422.9	-79.013 ug/L	-79.013 ppb	19:25:23
3	Mg 279.077 IEC†	1.9	-0.9	-46.715 ug/L	-46.715 ppb	19:25:43
3	Na 589.592 Radial†	799.3	-3295.4	-1130.9 ug/L	-1130.9 ppb	19:25:23
3	Sr 421.552†	166.2	-1289.2	-9.6674 ug/L	-9.6674 ppb	19:25:23
3	Sc 361.383	791008.1	791008.1	105.28 %		19:26:41
3	Y 371.029	626968.5	626968.5	106.54 %		19:26:41
3	Ag 328.068†	196.6	-139.6	-0.7412 ug/L	-0.7412 ppb	19:26:41
3	As 188.979†	-16.3	5.2	2.3973 ug/L	2.3973 ppb	19:27:01
3	B 249.677†	-66.2	379.1	9.4154 ug/L	9.4154 ppb	19:27:01
3	Ba 233.527†	52.2	-95.5	-0.8095 ug/L	-0.8095 ppb	19:27:01
3	Be 313.107†	-4600.5	-13.9	-0.0043 ug/L	-0.0043 ppb	19:26:41
3	Cd 226.502†	-168.4	35.2	0.4717 ug/L	0.4717 ppb	19:27:01
3	Co 228.616†	-76.8	-2.6	-0.0572 ug/L	-0.0572 ppb	19:27:01
3	Cr 267.716†	79.9	-2.0	-0.0344 ug/L	-0.0344 ppb	19:27:01
3	Cu 324.752†	5948.3	-802.3	-2.5134 ug/L	-2.5134 ppb	19:26:41
3	Mn 257.610†	460.9	-33.5	-0.0396 ug/L	-0.0396 ppb	19:27:01
3	Mo 202.031†	17.8	6.9	0.5671 ug/L	0.5671 ppb	19:27:01
3	Ni 231.604†	88.9	5.3	0.1518 ug/L	0.1518 ppb	19:27:01
3	P 214.914†	216.2	-5.8	-3.0041 ug/L	-3.0041 ppb	19:27:01
3	Pb 220.353†	-31.7	-51.0	-7.0753 ug/L	-7.0753 ppb	19:27:01
3	S 181.975 Axial†	44.5	4.8	6.9594 ug/L	6.9594 ppb	19:27:01
3	Sb 206.836†	32.0	-6.0	-2.1564 ug/L	-2.1564 ppb	19:27:01
3	Se 196.026†	-18.2	12.0	8.0594 ug/L	8.0594 ppb	19:27:01
3	Si 251.611†	557.0	32.6	1.0838 ug/L	1.0838 ppb	19:27:01
3	Sn 189.927†	20.1	3.7	0.7507 ug/L	0.7507 ppb	19:27:01
3	Ti 334.940†	-1252.1	290.7	0.4746 ug/L	0.4746 ppb	19:26:41
3	Tl 190.801†	-14.5	18.8	6.3214 ug/L	6.3214 ppb	19:27:01
3	U 409.014†	-2538.6	651.9	23.728 ug/L	23.728 ppb	19:26:41
3	V 292.402†	-1562.3	208.8	1.7644 ug/L	1.7644 ppb	19:26:41
3	Zn 213.857†	664.1	-13.0	-0.1310 ug/L	-0.1310 ppb	19:27:01
3	SiO2†	575.3	54.2	3.8478 ug/L	3.8478 ppb	19:27:16

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	785295.6	104.52 %	0.672			0.64%
Sc Radial	3874.5	110 %	0.6			0.54%
Y 371.029	623260.7	105.91 %	0.558			0.53%
Y RADIAL	4445.3	111.2 %	0.72			0.64%
Ag 328.068†	-147.7	-0.7796 ug/L	0.26136	-0.7796 ppb	0.26136	33.53%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	8.4	8.1542 ug/L	6.64335	8.1542 ppb	6.64335	81.47%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	2.3	1.0847 ug/L	1.43066	1.0847 ppb	1.43066	131.89%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	371.8	9.2333 ug/L	0.52393	9.2333 ppb	0.52393	5.67%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-105.3	-0.8933 ug/L	0.18178	-0.8933 ppb	0.18178	20.35%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-1.8	0.0002 ug/L	0.00393	0.0002 ppb	0.00393	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-3.5	-7.6160 ug/L	3.09921	-7.6160 ppb	3.09921	40.69%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated
Cd 226.502† 22.1 0.2972 ug/L 0.15681 0.2972 ppb 0.15681 52.76%
QC value within limits for Cd 226.502 Recovery = Not calculated
Co 228.616† 2.6 0.0572 ug/L 0.11916 0.0572 ppb 0.11916 208.19%
QC value within limits for Co 228.616 Recovery = Not calculated
Cr 267.716† 7.4 0.0898 ug/L 0.10774 0.0898 ppb 0.10774 119.95%
QC value within limits for Cr 267.716 Recovery = Not calculated
Cu 324.752† -768.8 -2.4062 ug/L 0.23056 -2.4062 ppb 0.23056 9.58%
QC value within limits for Cu 324.752 Recovery = Not calculated
Fe 238.204 Radial† -1.2 -17.633 ug/L 3.2862 -17.633 ppb 3.2862 18.64%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated
K 766.490 Radial† -476.7 -89.141 ug/L 11.5370 -89.141 ppb 11.5370 12.94%
QC value within limits for K 766.490 Radial Recovery = Not calculated
Mg 279.077 IEC† -1.8 -93.667 ug/L 43.0401 -93.667 ppb 43.0401 45.95%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated
Mn 257.610† -31.8 -0.0355 ug/L 0.01761 -0.0355 ppb 0.01761 49.59%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† 4.6 0.3735 ug/L 0.19671 0.3735 ppb 0.19671 52.66%
QC value within limits for Mo 202.031 Recovery = Not calculated
Na 589.592 Radial† -3235.3 -1110.3 ug/L 18.82 -1110.3 ppb 18.82 1.70%
QC value less than the lower limit for Na 589.592 Radial Recovery = Not calculated
Ni 231.604† 1.5 0.0420 ug/L 0.29361 0.0420 ppb 0.29361 699.03%
QC value within limits for Ni 231.604 Recovery = Not calculated
P 214.914† -9.5 -5.3040 ug/L 3.26568 -5.3040 ppb 3.26568 61.57%
QC value within limits for P 214.914 Recovery = Not calculated
Pb 220.353† -45.8 -6.3601 ug/L 0.82954 -6.3601 ppb 0.82954 13.04%
QC value within limits for Pb 220.353 Recovery = Not calculated
S 181.975 Axial† 5.7 8.1610 ug/L 4.15038 8.1610 ppb 4.15038 50.86%
QC value within limits for S 181.975 Axial Recovery = Not calculated
Sb 206.836† -0.9 -0.3026 ug/L 1.89768 -0.3026 ppb 1.89768 627.20%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 6.4 4.2789 ug/L 3.55784 4.2789 ppb 3.55784 83.15%
QC value within limits for Se 196.026 Recovery = Not calculated
Si 251.611† 44.5 1.4861 ug/L 0.39128 1.4861 ppb 0.39128 26.33%
QC value within limits for Si 251.611 Recovery = Not calculated
Sn 189.927† 3.8 0.7631 ug/L 1.28451 0.7631 ppb 1.28451 168.33%
QC value within limits for Sn 189.927 Recovery = Not calculated
Sr 421.552† -1238.1 -9.2841 ug/L 0.77703 -9.2841 ppb 0.77703 8.37%
QC value less than the lower limit for Sr 421.552 Recovery = Not calculated
Ti 334.940† 232.4 0.3844 ug/L 0.08952 0.3844 ppb 0.08952 23.29%
QC value within limits for Ti 334.940 Recovery = Not calculated
Tl 190.801† 16.5 5.5359 ug/L 0.77546 5.5359 ppb 0.77546 14.01%
QC value within limits for Tl 190.801 Recovery = Not calculated
U 409.014† 503.0 18.308 ug/L 4.9062 18.308 ppb 4.9062 26.80%
QC value within limits for U 409.014 Recovery = Not calculated
V 292.402† 176.0 1.4817 ug/L 0.26753 1.4817 ppb 0.26753 18.06%
QC value within limits for V 292.402 Recovery = Not calculated
Zn 213.857† -8.2 -0.0804 ug/L 0.09098 -0.0804 ppb 0.09098 113.20%
QC value within limits for Zn 213.857 Recovery = Not calculated
SiO2† 41.9 2.9742 ug/L 0.85461 2.9742 ppb 0.85461 28.73%
QC value within limits for SiO2 Recovery = Not calculated
QC Failed. Continue with analysis.

Sequence No.: 34

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 2/19/2010 20:17:18

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3885.8	3885.8	110 %		20:19:30
1	Y RADIAL	4396.5	4396.5	110.0 %		20:19:10
1	Al 396.153Radial†	5361.2	4993.0	4829.5 ug/L	4829.5 ppb	20:19:10
1	Ca 317.933Radial†	2514.1	2257.1	4930.6 ug/L	4930.6 ppb	20:19:30
1	Fe 238.204 Radial†	381.8	338.3	4910.1 ug/L	4910.1 ppb	20:19:30
1	K 766.490 Radial†	31019.4	25089.6	4708.7 ug/L	4708.7 ppb	20:19:10
1	Mg 279.077 IEC†	107.7	95.4	4848.5 ug/L	4848.5 ppb	20:19:30
1	Na 589.592 Radial†	31522.7	24664.5	8464.6 ug/L	8464.6 ppb	20:19:10
1	Sr 421.552†	70299.2	62544.6	468.96 ug/L	468.96 ppb	20:19:10
1	Sc 361.383	772420.1	772420.1	102.81 %		20:20:28
1	Y 371.029	604212.2	604212.2	102.68 %		20:20:28
1	Ag 328.068†	104339.2	101163.6	527.27 ug/L	527.27 ppb	20:20:33
1	As 188.979†	1113.2	1103.5	515.72 ug/L	515.72 ppb	20:20:53
1	B 249.677†	20662.4	20540.2	507.69 ug/L	507.69 ppb	20:20:33
1	Ba 233.527†	62557.8	60704.5	518.01 ug/L	518.01 ppb	20:20:33
1	Be 313.107†	1333694.7	1301631.2	511.92 ug/L	511.92 ppb	20:20:28
1	Cd 226.502†	39985.8	39089.0	516.70 ug/L	516.70 ppb	20:20:33
1	Co 228.616†	24184.8	23594.7	517.07 ug/L	517.07 ppb	20:20:33
1	Cr 267.716†	40597.1	39410.7	516.07 ug/L	516.07 ppb	20:20:33
1	Cu 324.752†	177852.4	166543.6	518.78 ug/L	518.78 ppb	20:20:33
1	Mn 257.610†	445036.3	432412.3	511.97 ug/L	511.97 ppb	20:20:28
1	Mo 202.031†	6436.2	6250.5	511.89 ug/L	511.89 ppb	20:20:53
1	Ni 231.604†	18739.8	18148.9	516.04 ug/L	516.04 ppb	20:20:33
1	P 214.914†	4469.2	4136.0	2426.2 ug/L	2426.2 ppb	20:20:53
1	Pb 220.353†	3745.1	3621.9	505.20 ug/L	505.20 ppb	20:20:53
1	S 181.975 Axial†	771.4	712.9	1024.5 ug/L	1024.5 ppb	20:20:53
1	Sb 206.836†	1462.9	1386.6	526.63 ug/L	526.63 ppb	20:20:53
1	Se 196.026†	748.6	757.4	532.26 ug/L	532.26 ppb	20:20:53
1	Si 251.611†	81027.8	78318.6	2616.1 ug/L	2616.1 ppb	20:20:33
1	Sn 189.927†	2618.8	2531.9	510.35 ug/L	510.35 ppb	20:20:53
1	Ti 334.940†	320406.1	313136.7	519.69 ug/L	519.69 ppb	20:20:28
1	Tl 190.801†	1544.8	1535.1	518.92 ug/L	518.92 ppb	20:20:53
1	U 409.014†	12785.7	15499.7	562.42 ug/L	562.42 ppb	20:20:33
1	V 292.402†	63527.5	63485.5	526.89 ug/L	526.89 ppb	20:20:33
1	Zn 213.857†	51686.1	49630.9	516.12 ug/L	516.12 ppb	20:20:33
1	SiO2†	79133.5	76480.4	5437.6 ug/L	5437.6 ppb	20:22:01
2	Sc Radial	3882.1	3882.1	110 %		20:19:55
2	Y RADIAL	4432.4	4432.4	110.8 %		20:19:35
2	Al 396.153Radial†	5438.9	5068.3	4905.7 ug/L	4905.7 ppb	20:19:35
2	Ca 317.933Radial†	2509.5	2255.1	4926.3 ug/L	4926.3 ppb	20:19:55
2	Fe 238.204 Radial†	380.1	337.2	4890.6 ug/L	4890.6 ppb	20:19:55
2	K 766.490 Radial†	31129.4	25216.6	4732.6 ug/L	4732.6 ppb	20:19:35
2	Mg 279.077 IEC†	109.3	96.9	4925.2 ug/L	4925.2 ppb	20:19:55
2	Na 589.592 Radial†	31915.3	25049.4	8596.7 ug/L	8596.7 ppb	20:19:35
2	Sr 421.552†	71213.4	63438.1	475.66 ug/L	475.66 ppb	20:19:35
2	Sc 361.383	864224.9	864224.9	115.03 %		20:20:59
2	Y 371.029	677166.8	677166.8	115.07 %		20:20:59
2	Ag 328.068†	99339.7	86036.2	448.62 ug/L	448.62 ppb	20:21:04
2	As 188.979†	1094.5	972.2	454.42 ug/L	454.42 ppb	20:21:24
2	B 249.677†	19590.3	17473.1	431.77 ug/L	431.77 ppb	20:21:04
2	Ba 233.527†	59227.7	51345.5	438.17 ug/L	438.17 ppb	20:21:04
2	Be 313.107†	1298708.5	1133408.5	445.75 ug/L	445.75 ppb	20:20:59
2	Cd 226.502†	37913.7	33156.1	438.20 ug/L	438.20 ppb	20:21:04
2	Co 228.616†	22905.0	19983.2	437.93 ug/L	437.93 ppb	20:21:04
2	Cr 267.716†	38314.4	33231.4	435.22 ug/L	435.22 ppb	20:21:04
2	Cu 324.752†	167996.1	139597.9	434.87 ug/L	434.87 ppb	20:21:04
2	Mn 257.610†	432114.0	375193.8	444.26 ug/L	444.26 ppb	20:20:59
2	Mo 202.031†	6352.5	5512.6	451.52 ug/L	451.52 ppb	20:21:24
2	Ni 231.604†	17786.8	15384.1	437.43 ug/L	437.43 ppb	20:21:04

2	P 214.914†	4408.6	3621.6	2128.0 ug/L	2128.0 ppb	20:21:24
2	Pb 220.353†	3700.8	3196.5	446.02 ug/L	446.02 ppb	20:21:24
2	S 181.975 Axial†	775.2	636.6	914.60 ug/L	914.60 ppb	20:21:24
2	Sb 206.836†	1429.7	1206.6	458.41 ug/L	458.41 ppb	20:21:24
2	Se 196.026†	738.5	671.3	473.66 ug/L	473.66 ppb	20:21:24
2	Si 251.611†	76731.5	66211.2	2211.4 ug/L	2211.4 ppb	20:21:04
2	Sn 189.927†	2579.2	2226.9	448.94 ug/L	448.94 ppb	20:21:24
2	Ti 334.940†	310711.4	271601.8	450.79 ug/L	450.79 ppb	20:20:59
2	Tl 190.801†	1527.9	1360.8	460.00 ug/L	460.00 ppb	20:21:24
2	U 409.014†	11952.9	13454.6	488.17 ug/L	488.17 ppb	20:21:04
2	V 292.402†	60045.0	53893.7	447.44 ug/L	447.44 ppb	20:21:04
2	Zn 213.857†	48978.9	41936.8	435.99 ug/L	435.99 ppb	20:21:04
2	SiO2†	78998.7	68186.6	4848.1 ug/L	4848.1 ppb	20:22:06
3	Sc Radial	3811.4	3811.4	108 %		20:20:20
3	Y RADIAL	4408.3	4408.3	110.2 %		20:20:00
3	Al 396.153Radial†	5385.9	5111.2	4946.4 ug/L	4946.4 ppb	20:20:00
3	Ca 317.933Radial†	2506.4	2294.6	5012.6 ug/L	5012.6 ppb	20:20:20
3	Fe 238.204 Radial†	377.5	341.2	4949.3 ug/L	4949.3 ppb	20:20:20
3	K 766.490 Radial†	31010.0	25632.4	4810.6 ug/L	4810.6 ppb	20:20:00
3	Mg 279.077 IEC†	107.9	97.5	4953.3 ug/L	4953.3 ppb	20:20:20
3	Na 589.592 Radial†	31793.0	25475.8	8743.0 ug/L	8743.0 ppb	20:20:00
3	Sr 421.552†	70620.7	64092.9	480.57 ug/L	480.57 ppb	20:20:00
3	Sc 361.383	830611.3	830611.3	110.55 %		20:21:30
3	Y 371.029	649766.6	649766.6	110.42 %		20:21:30
3	Ag 328.068†	102522.6	92410.2	481.78 ug/L	481.78 ppb	20:21:35
3	As 188.979†	1109.3	1024.1	478.64 ug/L	478.64 ppb	20:21:55
3	B 249.677†	20304.7	18808.6	464.82 ug/L	464.82 ppb	20:21:35
3	Ba 233.527†	61516.9	55499.9	473.61 ug/L	473.61 ppb	20:21:35
3	Be 313.107†	1316371.5	1195076.6	470.01 ug/L	470.01 ppb	20:21:30
3	Cd 226.502†	39448.5	35878.2	474.21 ug/L	474.21 ppb	20:21:35
3	Co 228.616†	23819.2	21615.9	473.71 ug/L	473.71 ppb	20:21:35
3	Cr 267.716†	39779.4	35904.6	470.20 ug/L	470.20 ppb	20:21:35
3	Cu 324.752†	174049.6	150983.9	470.33 ug/L	470.33 ppb	20:21:35
3	Mn 257.610†	439547.6	397120.4	470.21 ug/L	470.21 ppb	20:21:30
3	Mo 202.031†	6379.6	5760.7	471.82 ug/L	471.82 ppb	20:21:55
3	Ni 231.604†	18431.3	16592.8	471.80 ug/L	471.80 ppb	20:21:35
3	P 214.914†	4423.5	3790.2	2224.2 ug/L	2224.2 ppb	20:21:55
3	Pb 220.353†	3726.7	3350.1	467.40 ug/L	467.40 ppb	20:21:55
3	S 181.975 Axial†	775.2	663.8	953.78 ug/L	953.78 ppb	20:21:55
3	Sb 206.836†	1435.0	1261.7	479.43 ug/L	479.43 ppb	20:21:55
3	Se 196.026†	740.6	699.2	492.81 ug/L	492.81 ppb	20:21:55
3	Si 251.611†	79486.5	71402.8	2385.0 ug/L	2385.0 ppb	20:21:35
3	Sn 189.927†	2609.8	2345.4	472.80 ug/L	472.80 ppb	20:21:55
3	Ti 334.940†	315751.6	287092.4	476.49 ug/L	476.49 ppb	20:21:30
3	Tl 190.801†	1532.0	1418.4	479.43 ug/L	479.43 ppb	20:21:55
3	U 409.014†	12424.4	14301.6	518.91 ug/L	518.91 ppb	20:21:35
3	V 292.402†	62328.5	58071.8	481.96 ug/L	481.96 ppb	20:21:35
3	Zn 213.857†	50746.5	45258.8	470.58 ug/L	470.58 ppb	20:21:35
3	SiO2†	78201.3	70244.6	4994.2 ug/L	4994.2 ppb	20:22:11

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	822418.8	109.46 %	6.182			5.65%
Sc Radial	3859.8	109 %	1.2			1.09%
Y 371.029	643715.2	109.39 %	6.262			5.72%
Y RADIAL	4412.4	110.3 %	0.46			0.41%
Ag 328.068†	93203.3	485.89 ug/L	39.484	485.89 ppb	39.484	8.13%
QC value within limits for Ag 328.068 Recovery = 97.18%						
Al 396.153Radial†	5057.5	4893.8 ug/L	59.32	4893.8 ppb	59.32	1.21%
QC value within limits for Al 396.153Radial Recovery = 97.88%						
As 188.979†	1033.3	482.92 ug/L	30.874	482.92 ppb	30.874	6.39%
QC value within limits for As 188.979 Recovery = 96.58%						
B 249.677†	18940.6	468.09 ug/L	38.065	468.09 ppb	38.065	8.13%
QC value within limits for B 249.677 Recovery = 93.62%						
Ba 233.527†	55850.0	476.60 ug/L	40.002	476.60 ppb	40.002	8.39%
QC value within limits for Ba 233.527 Recovery = 95.32%						
Be 313.107†	1210038.8	475.89 ug/L	33.472	475.89 ppb	33.472	7.03%
QC value within limits for Be 313.107 Recovery = 95.18%						
Ca 317.933Radial†	2268.9	4956.5 ug/L	48.65	4956.5 ppb	48.65	0.98%

QC value within limits for Ca 317.933 Radial Recovery = 99.13%

Cd 226.502†	36041.1	476.37 ug/L	39.294	476.37 ppb	39.294	8.25%
QC value within limits for Cd 226.502 Recovery = 95.27%						
Co 228.616†	21731.3	476.24 ug/L	39.629	476.24 ppb	39.629	8.32%
QC value within limits for Co 228.616 Recovery = 95.25%						
Cr 267.716†	36182.2	473.83 ug/L	40.545	473.83 ppb	40.545	8.56%
QC value within limits for Cr 267.716 Recovery = 94.77%						
Cu 324.752†	152375.1	474.66 ug/L	42.119	474.66 ppb	42.119	8.87%
QC value within limits for Cu 324.752 Recovery = 94.93%						
Fe 238.204 Radial†	338.9	4916.7 ug/L	29.89	4916.7 ppb	29.89	0.61%
QC value within limits for Fe 238.204 Radial Recovery = 98.33%						
K 766.490 Radial†	25312.8	4750.6 ug/L	53.30	4750.6 ppb	53.30	1.12%
QC value within limits for K 766.490 Radial Recovery = 95.01%						
Mg 279.077 IEC†	96.6	4909.0 ug/L	54.26	4909.0 ppb	54.26	1.11%
QC value within limits for Mg 279.077 IEC Recovery = 98.18%						
Mn 257.610†	401575.5	475.48 ug/L	34.163	475.48 ppb	34.163	7.18%
QC value within limits for Mn 257.610 Recovery = 95.10%						
Mo 202.031†	5841.3	478.41 ug/L	30.724	478.41 ppb	30.724	6.42%
QC value within limits for Mo 202.031 Recovery = 95.68%						
Na 589.592 Radial†	25063.2	8601.4 ug/L	139.29	8601.4 ppb	139.29	1.62%
QC value less than the lower limit for Na 589.592 Radial Recovery = 86.01%						
Ni 231.604†	16708.6	475.09 ug/L	39.409	475.09 ppb	39.409	8.30%
QC value within limits for Ni 231.604 Recovery = 95.02%						
P 214.914†	3849.3	2259.5 ug/L	152.20	2259.5 ppb	152.20	6.74%
QC value within limits for P 214.914 Recovery = 90.38%						
Pb 220.353†	3389.5	472.87 ug/L	29.967	472.87 ppb	29.967	6.34%
QC value within limits for Pb 220.353 Recovery = 94.57%						
S 181.975 Axial†	671.1	964.28 ug/L	55.673	964.28 ppb	55.673	5.77%
QC value within limits for S 181.975 Axial Recovery = 96.43%						
Sb 206.836†	1285.0	488.16 ug/L	34.935	488.16 ppb	34.935	7.16%
QC value within limits for Sb 206.836 Recovery = 97.63%						
Se 196.026†	709.3	499.58 ug/L	29.882	499.58 ppb	29.882	5.98%
QC value within limits for Se 196.026 Recovery = 99.92%						
Si 251.611†	71977.5	2404.2 ug/L	203.01	2404.2 ppb	203.01	8.44%
QC value within limits for Si 251.611 Recovery = 96.17%						
Sn 189.927†	2368.1	477.36 ug/L	30.959	477.36 ppb	30.959	6.49%
QC value within limits for Sn 189.927 Recovery = 95.47%						
Sr 421.552†	63358.6	475.06 ug/L	5.828	475.06 ppb	5.828	1.23%
QC value within limits for Sr 421.552 Recovery = 95.01%						
Ti 334.940†	290610.3	482.33 ug/L	34.819	482.33 ppb	34.819	7.22%
QC value within limits for Ti 334.940 Recovery = 96.47%						
Tl 190.801†	1438.1	486.12 ug/L	30.024	486.12 ppb	30.024	6.18%
QC value within limits for Tl 190.801 Recovery = 97.22%						
U 409.014†	14418.6	523.17 ug/L	37.309	523.17 ppb	37.309	7.13%
QC value within limits for U 409.014 Recovery = 104.63%						
V 292.402†	58483.7	485.43 ug/L	39.836	485.43 ppb	39.836	8.21%
QC value within limits for V 292.402 Recovery = 97.09%						
Zn 213.857†	45608.9	474.23 ug/L	40.188	474.23 ppb	40.188	8.47%
QC value within limits for Zn 213.857 Recovery = 94.85%						
SiO2†	71637.2	5093.3 ug/L	307.01	5093.3 ppb	307.01	6.03%
QC value within limits for SiO2 Recovery = 95.25%						

QC Failed. Continue with analysis.

Sequence No.: 35

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/19/2010 20:24:22

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	3913.3	3913.3	111 %			20:26:33
1	Y RADIAL	4361.2	4361.2	109.1 %			20:26:13
1	Al 396.153Radial†	-105.8	17.6	17.087 ug/L		17.087 ppb	20:26:33
1	Ca 317.933Radial†	29.6	-4.5	-9.8403 ug/L		-9.8403 ppb	20:26:33
1	Fe 238.204 Radial†	10.2	0.1	1.5869 ug/L		1.5869 ppb	20:26:33
1	K 766.490 Radial†	2935.5	-491.0	-91.810 ug/L		-91.810 ppb	20:26:13
1	Mg 279.077 IEC†	0.8	-1.9	-96.562 ug/L		-96.562 ppb	20:26:33
1	Na 589.592 Radial†	723.0	-3373.9	-1157.9 ug/L		-1157.9 ppb	20:26:13
1	Sr 421.552†	217.8	-1244.5	-9.3323 ug/L		-9.3323 ppb	20:26:13
1	Sc 361.383	786830.9	786830.9	104.73 %			20:27:30
1	Y 371.029	623577.9	623577.9	105.97 %			20:27:30
1	Ag 328.068†	213.6	-122.4	-0.6435 ug/L		-0.6435 ppb	20:27:30
1	As 188.979†	-19.4	2.1	0.9969 ug/L		0.9969 ppb	20:27:50
1	B 249.677†	-234.9	217.7	5.4042 ug/L		5.4042 ppb	20:27:50
1	Ba 233.527†	31.7	-114.8	-0.9752 ug/L		-0.9752 ppb	20:27:50
1	Be 313.107†	-4627.1	-62.5	-0.0236 ug/L		-0.0236 ppb	20:27:30
1	Cd 226.502†	-205.0	-0.6	-0.0050 ug/L		-0.0050 ppb	20:27:50
1	Co 228.616†	-69.7	3.8	0.0830 ug/L		0.0830 ppb	20:27:50
1	Cr 267.716†	68.9	-12.0	-0.1626 ug/L		-0.1626 ppb	20:27:50
1	Cu 324.752†	5843.3	-872.6	-2.7277 ug/L		-2.7277 ppb	20:27:30
1	Mn 257.610†	445.4	-46.1	-0.0504 ug/L		-0.0504 ppb	20:27:50
1	Mo 202.031†	16.2	5.5	0.4531 ug/L		0.4531 ppb	20:27:50
1	Ni 231.604†	86.6	3.6	0.1022 ug/L		0.1022 ppb	20:27:50
1	P 214.914†	211.1	-9.6	-5.3127 ug/L		-5.3127 ppb	20:27:50
1	Pb 220.353†	-44.5	-63.4	-8.7949 ug/L		-8.7949 ppb	20:27:50
1	S 181.975 Axial†	44.9	5.5	7.9188 ug/L		7.9188 ppb	20:27:50
1	Sb 206.836†	37.5	-0.6	-0.2182 ug/L		-0.2182 ppb	20:27:50
1	Se 196.026†	-22.4	7.9	5.3735 ug/L		5.3735 ppb	20:27:50
1	Si 251.611†	555.2	33.7	1.1220 ug/L		1.1220 ppb	20:27:50
1	Sn 189.927†	12.7	-3.2	-0.6524 ug/L		-0.6524 ppb	20:27:50
1	Ti 334.940†	-1303.4	235.4	0.3899 ug/L		0.3899 ppb	20:27:30
1	Tl 190.801†	-18.2	15.2	5.0951 ug/L		5.0951 ppb	20:27:50
1	U 409.014†	-2720.0	465.8	16.955 ug/L		16.955 ppb	20:27:30
1	V 292.402†	-1656.8	110.7	0.9430 ug/L		0.9430 ppb	20:27:30
1	Zn 213.857†	626.3	-45.8	-0.4774 ug/L		-0.4774 ppb	20:27:50
1	SiO2†	560.3	42.9	3.0425 ug/L		3.0425 ppb	20:28:46
2	Sc Radial	3908.9	3908.9	111 %			20:26:58
2	Y RADIAL	4419.1	4419.1	110.5 %			20:26:38
2	Al 396.153Radial†	-109.4	14.3	13.863 ug/L		13.863 ppb	20:26:58
2	Ca 317.933Radial†	31.3	-2.9	-6.3366 ug/L		-6.3366 ppb	20:26:58
2	Fe 238.204 Radial†	9.4	-0.6	-9.2931 ug/L		-9.2931 ppb	20:26:58
2	K 766.490 Radial†	2886.8	-532.1	-99.537 ug/L		-99.537 ppb	20:26:38
2	Mg 279.077 IEC†	2.9	-0.1	-2.6278 ug/L		-2.6278 ppb	20:26:58
2	Na 589.592 Radial†	783.5	-3318.4	-1138.8 ug/L		-1138.8 ppb	20:26:38
2	Sr 421.552†	401.2	-1078.4	-8.0866 ug/L		-8.0866 ppb	20:26:38
2	Sc 361.383	794234.5	794234.5	105.71 %			20:27:56
2	Y 371.029	630264.5	630264.5	107.10 %			20:27:56
2	Ag 328.068†	277.3	-64.0	-0.3356 ug/L		-0.3356 ppb	20:27:56
2	As 188.979†	-19.0	2.7	1.2578 ug/L		1.2578 ppb	20:28:16
2	B 249.677†	-270.2	186.4	4.6271 ug/L		4.6271 ppb	20:28:16
2	Ba 233.527†	68.3	-80.4	-0.6811 ug/L		-0.6811 ppb	20:28:16
2	Be 313.107†	-4523.0	77.1	0.0313 ug/L		0.0313 ppb	20:27:56
2	Cd 226.502†	-190.9	14.6	0.1956 ug/L		0.1956 ppb	20:28:16
2	Co 228.616†	-52.4	20.8	0.4536 ug/L		0.4536 ppb	20:28:16
2	Cr 267.716†	74.5	-7.4	-0.0987 ug/L		-0.0987 ppb	20:28:16
2	Cu 324.752†	5936.5	-836.4	-2.6114 ug/L		-2.6114 ppb	20:27:56
2	Mn 257.610†	457.1	-38.9	-0.0469 ug/L		-0.0469 ppb	20:28:16
2	Mo 202.031†	10.5	0.0	0.0000 ug/L		0.0000 ppb	20:28:16
2	Ni 231.604†	76.6	-6.6	-0.1889 ug/L		-0.1889 ppb	20:28:16

2	P 214.914†	216.9	-6.0	-3.1215 ug/L	-3.1215 ppb	20:28:16
2	Pb 220.353†	-39.9	-58.7	-8.1434 ug/L	-8.1434 ppb	20:28:16
2	S 181.975 Axial†	39.8	0.2	0.3244 ug/L	0.3244 ppb	20:28:16
2	Sb 206.836†	39.0	0.5	0.1809 ug/L	0.1809 ppb	20:28:16
2	Se 196.026†	-21.0	9.4	6.3440 ug/L	6.3440 ppb	20:28:16
2	Si 251.611†	553.5	27.1	0.9075 ug/L	0.9075 ppb	20:28:16
2	Sn 189.927†	13.7	-2.4	-0.4807 ug/L	-0.4807 ppb	20:28:16
2	Ti 334.940†	-1260.5	287.6	0.4726 ug/L	0.4726 ppb	20:27:56
2	Tl 190.801†	-31.3	2.9	0.9791 ug/L	0.9791 ppb	20:28:16
2	U 409.014†	-2960.7	262.3	9.5497 ug/L	9.5497 ppb	20:27:56
2	V 292.402†	-1572.2	205.5	1.7019 ug/L	1.7019 ppb	20:27:56
2	Zn 213.857†	628.9	-48.9	-0.5067 ug/L	-0.5067 ppb	20:28:16
2	SiO2†	568.6	45.7	3.2546 ug/L	3.2546 ppb	20:28:51
3	Sc Radial	3893.2	3893.2	110 %		20:27:24
3	Y RADIAL	4398.6	4398.6	110.0 %		20:27:04
3	Al 396.153Radial†	-114.4	9.3	9.0631 ug/L	9.0631 ppb	20:27:24
3	Ca 317.933Radial†	27.3	-6.5	-14.147 ug/L	-14.147 ppb	20:27:24
3	Fe 238.204 Radial†	10.6	0.5	6.8679 ug/L	6.8679 ppb	20:27:24
3	K 766.490 Radial†	2853.6	-551.8	-103.23 ug/L	-103.23 ppb	20:27:04
3	Mg 279.077 IEC†	2.1	-0.8	-40.251 ug/L	-40.251 ppb	20:27:24
3	Na 589.592 Radial†	749.8	-3346.2	-1148.4 ug/L	-1148.4 ppb	20:27:04
3	Sr 421.552†	227.0	-1235.2	-9.2622 ug/L	-9.2622 ppb	20:27:04
3	Sc 361.383	785263.5	785263.5	104.52 %		20:28:21
3	Y 371.029	622752.9	622752.9	105.83 %		20:28:21
3	Ag 328.068†	226.5	-109.6	-0.5685 ug/L	-0.5685 ppb	20:28:21
3	As 188.979†	-26.8	-5.0	-2.2977 ug/L	-2.2977 ppb	20:28:41
3	B 249.677†	-260.4	192.8	4.7855 ug/L	4.7855 ppb	20:28:41
3	Ba 233.527†	51.2	-96.1	-0.8152 ug/L	-0.8152 ppb	20:28:41
3	Be 313.107†	-4539.5	12.5	0.0054 ug/L	0.0054 ppb	20:28:21
3	Cd 226.502†	-196.6	7.1	0.0947 ug/L	0.0947 ppb	20:28:41
3	Co 228.616†	-57.7	15.1	0.3301 ug/L	0.3301 ppb	20:28:41
3	Cr 267.716†	78.5	-2.7	-0.0371 ug/L	-0.0371 ppb	20:28:41
3	Cu 324.752†	5927.6	-780.8	-2.4366 ug/L	-2.4366 ppb	20:28:21
3	Mn 257.610†	433.3	-56.7	-0.0648 ug/L	-0.0648 ppb	20:28:41
3	Mo 202.031†	13.5	3.0	0.2446 ug/L	0.2446 ppb	20:28:41
3	Ni 231.604†	96.2	12.9	0.3662 ug/L	0.3662 ppb	20:28:41
3	P 214.914†	211.7	-8.5	-4.7374 ug/L	-4.7374 ppb	20:28:41
3	Pb 220.353†	-47.5	-66.3	-9.2086 ug/L	-9.2086 ppb	20:28:41
3	S 181.975 Axial†	41.0	1.8	2.6199 ug/L	2.6199 ppb	20:28:41
3	Sb 206.836†	44.7	6.4	2.3621 ug/L	2.3621 ppb	20:28:41
3	Se 196.026†	-24.6	5.8	3.9418 ug/L	3.9418 ppb	20:28:41
3	Si 251.611†	539.1	19.3	0.6435 ug/L	0.6435 ppb	20:28:41
3	Sn 189.927†	17.5	1.4	0.2882 ug/L	0.2882 ppb	20:28:41
3	Ti 334.940†	-1419.2	122.1	0.2004 ug/L	0.2004 ppb	20:28:21
3	Tl 190.801†	-26.1	7.6	2.5537 ug/L	2.5537 ppb	20:28:41
3	U 409.014†	-2957.7	233.2	8.4873 ug/L	8.4873 ppb	20:28:21
3	V 292.402†	-1636.9	126.5	1.0540 ug/L	1.0540 ppb	20:28:21
3	Zn 213.857†	627.5	-43.4	-0.4552 ug/L	-0.4552 ppb	20:28:41
3	SiO2†	544.9	29.1	2.0680 ug/L	2.0680 ppb	20:28:56

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	788776.3	104.98 %		0.638			0.61%
Sc Radial	3905.1	110 %		0.3			0.27%
Y 371.029	625531.8	106.30 %		0.700			0.66%
Y RADIAL	4393.0	109.9 %		0.73			0.67%
Ag 328.068†	-98.7	-0.5159 ug/L		0.16056	-0.5159 ppb	0.16056	31.12%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	13.7	13.338 ug/L		4.0376	13.338 ppb	4.0376	30.27%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-0.0	-0.0144 ug/L		1.98175	-0.0144 ppb	1.98175	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	199.0	4.9389 ug/L		0.41061	4.9389 ppb	0.41061	8.31%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-97.1	-0.8238 ug/L		0.14722	-0.8238 ppb	0.14722	17.87%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	9.1	0.0044 ug/L		0.02750	0.0044 ppb	0.02750	630.09%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-4.6	-10.108 ug/L		3.9122	-10.108 ppb	3.9122	38.70%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	7.0	0.0951 ug/L	0.10032	0.0951 ppb	0.10032	105.47%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	13.2	0.2889 ug/L	0.18870	0.2889 ppb	0.18870	65.31%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-7.4	-0.0994 ug/L	0.06274	-0.0994 ppb	0.06274	63.09%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-829.9	-2.5919 ug/L	0.14651	-2.5919 ppb	0.14651	5.65%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.0	-0.2794 ug/L	8.24054	-0.2794 ppb	8.24054	>999.9%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-525.0	-98.191 ug/L	5.8269	-98.191 ppb	5.8269	5.93%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.9	-46.480 ug/L	47.2761	-46.480 ppb	47.2761	101.71%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-47.2	-0.0540 ug/L	0.00948	-0.0540 ppb	0.00948	17.56%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	2.8	0.2326 ug/L	0.22680	0.2326 ppb	0.22680	97.52%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-3346.2	-1148.4 ug/L	9.52	-1148.4 ppb	9.52	0.83%	
QC value less than the lower limit for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	3.3	0.0932 ug/L	0.27764	0.0932 ppb	0.27764	297.96%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-8.0	-4.3906 ug/L	1.13605	-4.3906 ppb	1.13605	25.87%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-62.8	-8.7156 ug/L	0.53700	-8.7156 ppb	0.53700	6.16%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	2.5	3.6210 ug/L	3.89490	3.6210 ppb	3.89490	107.56%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	2.1	0.7749 ug/L	1.38892	0.7749 ppb	1.38892	179.23%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	7.7	5.2198 ug/L	1.20846	5.2198 ppb	1.20846	23.15%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	26.7	0.8910 ug/L	0.23968	0.8910 ppb	0.23968	26.90%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-1.4	-0.2817 ug/L	0.50092	-0.2817 ppb	0.50092	177.84%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-1186.1	-8.8937 ug/L	0.69981	-8.8937 ppb	0.69981	7.87%	
QC value less than the lower limit for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	215.0	0.3543 ug/L	0.13955	0.3543 ppb	0.13955	39.38%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	8.6	2.8760 ug/L	2.07686	2.8760 ppb	2.07686	72.21%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	320.5	11.664 ug/L	4.6128	11.664 ppb	4.6128	39.55%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	147.6	1.2330 ug/L	0.40990	1.2330 ppb	0.40990	33.24%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-46.0	-0.4798 ug/L	0.02580	-0.4798 ppb	0.02580	5.38%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	39.2	2.7884 ug/L	0.63277	2.7884 ppb	0.63277	22.69%	
QC value within limits for SiO2 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 42
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 2/19/2010 21:11:49
 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	3894.0	3894.0	110 %		21:14:01
1	Y RADIAL	4379.9	4379.9	109.5 %		21:13:41
1	Al 396.153Radial†	5376.9	4997.0	4834.5 ug/L	4834.5 ppb	21:13:41
1	Ca 317.933Radial†	2521.6	2259.1	4935.0 ug/L	4935.0 ppb	21:14:01
1	Fe 238.204 Radial†	378.7	334.8	4857.6 ug/L	4857.6 ppb	21:14:01
1	K 766.490 Radial†	31179.2	25175.4	4724.9 ug/L	4724.9 ppb	21:13:41
1	Mg 279.077 IEC†	110.5	97.7	4966.5 ug/L	4966.5 ppb	21:14:01
1	Na 589.592 Radial†	31483.0	24568.2	8431.5 ug/L	8431.5 ppb	21:13:41
1	Sr 421.552†	70781.3	62848.0	471.23 ug/L	471.23 ppb	21:13:41
1	Sc 361.383	806891.3	806891.3	107.40 %		21:14:59
1	Y 371.029	631107.4	631107.4	107.25 %		21:14:59
1	Ag 328.068†	102633.6	95239.7	496.46 ug/L	496.46 ppb	21:15:04
1	As 188.979†	1115.6	1059.5	495.02 ug/L	495.02 ppb	21:15:24
1	B 249.677†	20176.6	19229.2	475.23 ug/L	475.23 ppb	21:15:04
1	Ba 233.527†	61597.0	57210.3	488.20 ug/L	488.20 ppb	21:15:04
1	Be 313.107†	1330216.7	1242971.8	488.81 ug/L	488.81 ppb	21:14:59
1	Cd 226.502†	39433.4	36913.1	487.91 ug/L	487.91 ppb	21:15:04
1	Co 228.616†	23905.7	22329.8	489.38 ug/L	489.38 ppb	21:15:04
1	Cr 267.716†	39800.1	36981.5	484.28 ug/L	484.28 ppb	21:15:04
1	Cu 324.752†	174473.7	156007.0	485.97 ug/L	485.97 ppb	21:15:04
1	Mn 257.610†	443631.3	412610.9	488.53 ug/L	488.53 ppb	21:14:59
1	Mo 202.031†	6418.6	5966.6	488.66 ug/L	488.66 ppb	21:15:24
1	Ni 231.604†	18464.9	17114.2	486.62 ug/L	486.62 ppb	21:15:04
1	P 214.914†	4463.2	3944.8	2315.7 ug/L	2315.7 ppb	21:15:24
1	Pb 220.353†	3735.0	3456.9	482.24 ug/L	482.24 ppb	21:15:24
1	S 181.975 Axial†	770.5	680.0	977.11 ug/L	977.11 ppb	21:15:24
1	Sb 206.836†	1466.2	1328.9	504.69 ug/L	504.69 ppb	21:15:24
1	Se 196.026†	744.5	722.5	508.37 ug/L	508.37 ppb	21:15:24
1	Si 251.611†	79548.3	73574.0	2457.5 ug/L	2457.5 ppb	21:15:04
1	Sn 189.927†	2620.2	2424.5	488.71 ug/L	488.71 ppb	21:15:24
1	Ti 334.940†	309455.0	289625.4	480.68 ug/L	480.68 ppb	21:15:04
1	Tl 190.801†	1534.5	1461.4	493.92 ug/L	493.92 ppb	21:15:24
1	U 409.014†	12250.2	14469.7	525.01 ug/L	525.01 ppb	21:15:04
1	V 292.402†	62316.0	59717.5	495.69 ug/L	495.69 ppb	21:15:04
1	Zn 213.857†	50857.7	46711.7	485.72 ug/L	485.72 ppb	21:15:04
1	SiO2†	80179.8	74166.3	5273.3 ug/L	5273.3 ppb	21:16:31
2	Sc Radial	3894.3	3894.3	110 %		21:14:26
2	Y RADIAL	4422.9	4422.9	110.6 %		21:14:06
2	Al 396.153Radial†	5502.7	5110.9	4945.1 ug/L	4945.1 ppb	21:14:06
2	Ca 317.933Radial†	2528.5	2265.2	4948.3 ug/L	4948.3 ppb	21:14:26
2	Fe 238.204 Radial†	379.6	335.6	4869.3 ug/L	4869.3 ppb	21:14:26
2	K 766.490 Radial†	31438.6	25408.7	4768.7 ug/L	4768.7 ppb	21:14:06
2	Mg 279.077 IEC†	108.3	95.7	4864.5 ug/L	4864.5 ppb	21:14:26
2	Na 589.592 Radial†	31623.3	24693.2	8474.4 ug/L	8474.4 ppb	21:14:06
2	Sr 421.552†	71524.8	63518.0	476.26 ug/L	476.26 ppb	21:14:06
2	Sc 361.383	803052.7	803052.7	106.88 %		21:15:30
2	Y 371.029	628799.8	628799.8	106.85 %		21:15:30
2	Ag 328.068†	102838.3	95888.0	499.84 ug/L	499.84 ppb	21:15:35
2	As 188.979†	1117.7	1066.4	498.27 ug/L	498.27 ppb	21:15:55
2	B 249.677†	20310.7	19444.4	480.57 ug/L	480.57 ppb	21:15:35
2	Ba 233.527†	61472.2	57367.7	489.55 ug/L	489.55 ppb	21:15:35
2	Be 313.107†	1322320.4	1241504.7	488.24 ug/L	488.24 ppb	21:15:30
2	Cd 226.502†	39514.3	37164.3	491.23 ug/L	491.23 ppb	21:15:35
2	Co 228.616†	23812.7	22349.2	489.80 ug/L	489.80 ppb	21:15:35
2	Cr 267.716†	39839.9	37196.0	487.09 ug/L	487.09 ppb	21:15:35
2	Cu 324.752†	174853.0	157138.4	489.49 ug/L	489.49 ppb	21:15:35
2	Mn 257.610†	440515.7	411670.5	487.42 ug/L	487.42 ppb	21:15:30
2	Mo 202.031†	6406.8	5984.2	490.10 ug/L	490.10 ppb	21:15:55
2	Ni 231.604†	18488.0	17218.0	489.57 ug/L	489.57 ppb	21:15:35

2	P 214.914†	4460.3	3961.9	2325.5 ug/L	2325.5 ppb	21:15:55
2	Pb 220.353†	3739.4	3477.7	485.15 ug/L	485.15 ppb	21:15:55
2	S 181.975 Axial†	778.8	691.2	993.22 ug/L	993.22 ppb	21:15:55
2	Sb 206.836†	1459.4	1329.0	504.84 ug/L	504.84 ppb	21:15:55
2	Se 196.026†	744.0	725.3	510.33 ug/L	510.33 ppb	21:15:55
2	Si 251.611†	79684.4	74055.4	2473.6 ug/L	2473.6 ppb	21:15:35
2	Sn 189.927†	2631.4	2446.6	493.16 ug/L	493.16 ppb	21:15:55
2	Ti 334.940†	309776.8	291303.8	483.47 ug/L	483.47 ppb	21:15:35
2	Tl 190.801†	1524.8	1459.2	493.17 ug/L	493.17 ppb	21:15:55
2	U 409.014†	12311.9	14581.9	529.09 ug/L	529.09 ppb	21:15:35
2	V 292.402†	62580.9	60242.8	500.01 ug/L	500.01 ppb	21:15:35
2	Zn 213.857†	50844.9	46926.1	487.95 ug/L	487.95 ppb	21:15:35
2	SiO2†	80351.5	74683.8	5310.2 ug/L	5310.2 ppb	21:16:37
3	Sc Radial	3865.0	3865.0	109 %		21:14:52
3	Y RADIAL	4357.0	4357.0	109.0 %		21:14:32
3	Al 396.153Radial†	5383.8	5040.0	4876.1 ug/L	4876.1 ppb	21:14:32
3	Ca 317.933Radial†	2516.7	2271.7	4962.7 ug/L	4962.7 ppb	21:14:52
3	Fe 238.204 Radial†	378.6	337.3	4894.7 ug/L	4894.7 ppb	21:14:52
3	K 766.490 Radial†	31131.0	25343.7	4756.5 ug/L	4756.5 ppb	21:14:32
3	Mg 279.077 IEC†	110.4	98.4	4998.9 ug/L	4998.9 ppb	21:14:52
3	Na 589.592 Radial†	31365.0	24674.7	8468.1 ug/L	8468.1 ppb	21:14:32
3	Sr 421.552†	70503.6	63076.2	472.94 ug/L	472.94 ppb	21:14:32
3	Sc 361.383	802941.4	802941.4	106.87 %		21:16:01
3	Y 371.029	628094.7	628094.7	106.73 %		21:16:01
3	Ag 328.068†	103078.0	96125.7	501.08 ug/L	501.08 ppb	21:16:06
3	As 188.979†	1120.7	1069.3	499.63 ug/L	499.63 ppb	21:16:26
3	B 249.677†	20378.7	19510.7	482.20 ug/L	482.20 ppb	21:16:06
3	Ba 233.527†	61819.4	57700.6	492.38 ug/L	492.38 ppb	21:16:06
3	Be 313.107†	1323898.7	1243153.0	488.89 ug/L	488.89 ppb	21:16:01
3	Cd 226.502†	39691.6	37335.3	493.49 ug/L	493.49 ppb	21:16:06
3	Co 228.616†	23995.6	22523.5	493.63 ug/L	493.63 ppb	21:16:06
3	Cr 267.716†	40087.4	37432.7	490.19 ug/L	490.19 ppb	21:16:06
3	Cu 324.752†	175415.6	157687.6	491.21 ug/L	491.21 ppb	21:16:06
3	Mn 257.610†	441249.1	412413.9	488.30 ug/L	488.30 ppb	21:16:01
3	Mo 202.031†	6442.6	6018.4	492.90 ug/L	492.90 ppb	21:16:26
3	Ni 231.604†	18508.4	17239.5	490.18 ug/L	490.18 ppb	21:16:06
3	P 214.914†	4492.0	3992.2	2343.6 ug/L	2343.6 ppb	21:16:26
3	Pb 220.353†	3736.6	3475.5	484.84 ug/L	484.84 ppb	21:16:26
3	S 181.975 Axial†	780.7	693.1	995.91 ug/L	995.91 ppb	21:16:26
3	Sb 206.836†	1472.4	1341.4	509.44 ug/L	509.44 ppb	21:16:26
3	Se 196.026†	753.8	734.6	516.73 ug/L	516.73 ppb	21:16:26
3	Si 251.611†	79882.5	74251.1	2480.1 ug/L	2480.1 ppb	21:16:06
3	Sn 189.927†	2627.7	2443.5	492.55 ug/L	492.55 ppb	21:16:26
3	Ti 334.940†	310896.9	292392.1	485.27 ug/L	485.27 ppb	21:16:06
3	Tl 190.801†	1543.7	1477.0	499.16 ug/L	499.16 ppb	21:16:26
3	U 409.014†	12358.0	14626.7	530.71 ug/L	530.71 ppb	21:16:06
3	V 292.402†	62799.5	60455.4	501.79 ug/L	501.79 ppb	21:16:06
3	Zn 213.857†	51166.5	47233.7	491.17 ug/L	491.17 ppb	21:16:06
3	SiO2†	80424.9	74762.9	5315.7 ug/L	5315.7 ppb	21:16:42

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	804295.1	107.05 %	0.299			0.28%
Sc Radial	3884.4	110 %	0.5			0.43%
Y 371.029	629334.0	106.95 %	0.268			0.25%
Y RADIAL	4386.6	109.7 %	0.84			0.76%
Ag 328.068†	95751.2	499.13 ug/L	2.391	499.13 ppb	2.391	0.48%
QC value within limits for Ag 328.068 Recovery = 99.83%						
Al 396.153Radial†	5049.3	4885.2 ug/L	55.89	4885.2 ppb	55.89	1.14%
QC value within limits for Al 396.153Radial Recovery = 97.70%						
As 188.979†	1065.1	497.64 ug/L	2.370	497.64 ppb	2.370	0.48%
QC value within limits for As 188.979 Recovery = 99.53%						
B 249.677†	19394.8	479.33 ug/L	3.646	479.33 ppb	3.646	0.76%
QC value within limits for B 249.677 Recovery = 95.87%						
Ba 233.527†	57426.2	490.04 ug/L	2.137	490.04 ppb	2.137	0.44%
QC value within limits for Ba 233.527 Recovery = 98.01%						
Be 313.107†	1242543.2	488.65 ug/L	0.355	488.65 ppb	0.355	0.07%
QC value within limits for Be 313.107 Recovery = 97.73%						
Ca 317.933Radial†	2265.3	4948.7 ug/L	13.81	4948.7 ppb	13.81	0.28%

QC value within limits for Ca 317.933 Radial Recovery = 98.97%					
Cd 226.502†	37137.5	490.88 ug/L	2.808	490.88 ppb	2.808 0.57%
QC value within limits for Cd 226.502 Recovery = 98.18%					
Co 228.616†	22400.8	490.94 ug/L	2.338	490.94 ppb	2.338 0.48%
QC value within limits for Co 228.616 Recovery = 98.19%					
Cr 267.716†	37203.4	487.19 ug/L	2.954	487.19 ppb	2.954 0.61%
QC value within limits for Cr 267.716 Recovery = 97.44%					
Cu 324.752†	156944.3	488.89 ug/L	2.669	488.89 ppb	2.669 0.55%
QC value within limits for Cu 324.752 Recovery = 97.78%					
Fe 238.204 Radial†	335.9	4873.9 ug/L	18.95	4873.9 ppb	18.95 0.39%
QC value within limits for Fe 238.204 Radial Recovery = 97.48%					
K 766.490 Radial†	25309.3	4750.0 ug/L	22.60	4750.0 ppb	22.60 0.48%
QC value within limits for K 766.490 Radial Recovery = 95.00%					
Mg 279.077 IEC†	97.3	4943.3 ug/L	70.14	4943.3 ppb	70.14 1.42%
QC value within limits for Mg 279.077 IEC Recovery = 98.87%					
Mn 257.610†	412231.8	488.09 ug/L	0.584	488.09 ppb	0.584 0.12%
QC value within limits for Mn 257.610 Recovery = 97.62%					
Mo 202.031†	5989.7	490.55 ug/L	2.159	490.55 ppb	2.159 0.44%
QC value within limits for Mo 202.031 Recovery = 98.11%					
Na 589.592 Radial†	24645.3	8458.0 ug/L	23.15	8458.0 ppb	23.15 0.27%
QC value less than the lower limit for Na 589.592 Radial Recovery = 84.58%					
Ni 231.604†	17190.6	488.79 ug/L	1.905	488.79 ppb	1.905 0.39%
QC value within limits for Ni 231.604 Recovery = 97.76%					
P 214.914†	3966.3	2328.3 ug/L	14.18	2328.3 ppb	14.18 0.61%
QC value within limits for P 214.914 Recovery = 93.13%					
Pb 220.353†	3470.1	484.08 ug/L	1.601	484.08 ppb	1.601 0.33%
QC value within limits for Pb 220.353 Recovery = 96.82%					
S 181.975 Axial†	688.1	988.75 ug/L	10.168	988.75 ppb	10.168 1.03%
QC value within limits for S 181.975 Axial Recovery = 98.87%					
Sb 206.836†	1333.1	506.32 ug/L	2.702	506.32 ppb	2.702 0.53%
QC value within limits for Sb 206.836 Recovery = 101.26%					
Se 196.026†	727.5	511.81 ug/L	4.370	511.81 ppb	4.370 0.85%
QC value within limits for Se 196.026 Recovery = 102.36%					
Si 251.611†	73960.1	2470.4 ug/L	11.64	2470.4 ppb	11.64 0.47%
QC value within limits for Si 251.611 Recovery = 98.82%					
Sn 189.927†	2438.2	491.48 ug/L	2.410	491.48 ppb	2.410 0.49%
QC value within limits for Sn 189.927 Recovery = 98.30%					
Sr 421.552†	63147.4	473.48 ug/L	2.554	473.48 ppb	2.554 0.54%
QC value within limits for Sr 421.552 Recovery = 94.70%					
Ti 334.940†	291107.1	483.14 ug/L	2.313	483.14 ppb	2.313 0.48%
QC value within limits for Ti 334.940 Recovery = 96.63%					
Tl 190.801†	1465.9	495.42 ug/L	3.262	495.42 ppb	3.262 0.66%
QC value within limits for Tl 190.801 Recovery = 99.08%					
U 409.014†	14559.5	528.27 ug/L	2.935	528.27 ppb	2.935 0.56%
QC value within limits for U 409.014 Recovery = 105.65%					
V 292.402†	60138.6	499.17 ug/L	3.138	499.17 ppb	3.138 0.63%
QC value within limits for V 292.402 Recovery = 99.83%					
Zn 213.857†	46957.2	488.28 ug/L	2.736	488.28 ppb	2.736 0.56%
QC value within limits for Zn 213.857 Recovery = 97.66%					
SiO2†	74537.7	5299.7 ug/L	23.05	5299.7 ppb	23.05 0.43%
QC value within limits for SiO2 Recovery = 99.11%					
QC Failed. Continue with analysis.					

Sequence No.: 43
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 2/19/2010 21:18:52
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3907.1	3907.1	110 %		21:21:03
1	Y RADIAL	4369.2	4369.2	109.3 %		21:20:43
1	Al 396.153Radial†	-112.3	11.6	11.222 ug/L	11.222 ppb	21:21:03
1	Ca 317.933Radial†	286.3	227.9	497.95 ug/L	497.95 ppb	21:21:03
1	Fe 238.204 Radial†	10.6	0.5	6.9657 ug/L	6.9657 ppb	21:21:03
1	K 766.490 Radial†	2879.1	-537.9	-100.77 ug/L	-100.77 ppb	21:20:43
1	Mg 279.077 IEC†	0.5	-2.2	-110.38 ug/L	-110.38 ppb	21:21:03
1	Na 589.592 Radial†	528.4	-3549.0	-1218.0 ug/L	-1218.0 ppb	21:20:43
1	Sr 421.552†	180.9	-1277.7	-9.5844 ug/L	-9.5844 ppb	21:20:43
1	Sc 361.383	796350.1	796350.1	105.99 %		21:22:00
1	Y 371.029	629903.4	629903.4	107.04 %		21:22:00
1	Ag 328.068†	119.5	-213.6	-1.1149 ug/L	-1.1149 ppb	21:22:00
1	As 188.979†	-24.5	-2.4	-1.1268 ug/L	-1.1268 ppb	21:22:20
1	B 249.677†	-283.9	174.1	4.3204 ug/L	4.3204 ppb	21:22:20
1	Ba 233.527†	57.2	-91.1	-0.7725 ug/L	-0.7725 ppb	21:22:20
1	Be 313.107†	-4655.5	-36.5	-0.0138 ug/L	-0.0138 ppb	21:22:00
1	Cd 226.502†	-191.5	14.5	0.1930 ug/L	0.1930 ppb	21:22:20
1	Co 228.616†	-61.4	12.4	0.2719 ug/L	0.2719 ppb	21:22:20
1	Cr 267.716†	57.9	-23.2	-0.3052 ug/L	-0.3052 ppb	21:22:20
1	Cu 324.752†	5984.5	-806.1	-2.5165 ug/L	-2.5165 ppb	21:22:00
1	Mn 257.610†	438.3	-57.8	-0.0632 ug/L	-0.0632 ppb	21:22:20
1	Mo 202.031†	20.0	8.9	0.7367 ug/L	0.7367 ppb	21:22:20
1	Ni 231.604†	83.3	-0.5	-0.0155 ug/L	-0.0155 ppb	21:22:20
1	P 214.914†	194.2	-27.9	-16.537 ug/L	-16.537 ppb	21:22:20
1	Pb 220.353†	-40.7	-59.3	-8.2097 ug/L	-8.2097 ppb	21:22:20
1	S 181.975 Axial†	37.3	-2.2	-3.1253 ug/L	-3.1253 ppb	21:22:20
1	Sb 206.836†	44.1	5.2	1.9560 ug/L	1.9560 ppb	21:22:20
1	Se 196.026†	-22.4	8.2	5.5601 ug/L	5.5601 ppb	21:22:20
1	Si 251.611†	524.4	-1.7	-0.0664 ug/L	-0.0664 ppb	21:22:20
1	Sn 189.927†	22.3	5.7	1.2370 ug/L	1.2370 ppb	21:22:20
1	Ti 334.940†	-1413.7	146.2	0.3140 ug/L	0.3140 ppb	21:22:00
1	Tl 190.801†	-27.5	6.6	2.2246 ug/L	2.2246 ppb	21:22:20
1	U 409.014†	-2944.2	285.4	10.387 ug/L	10.387 ppb	21:22:00
1	V 292.402†	-1636.2	149.0	1.2474 ug/L	1.2474 ppb	21:22:00
1	Zn 213.857†	626.8	-52.4	-0.5477 ug/L	-0.5477 ppb	21:22:20
1	SiO2†	526.9	4.9	0.3278 ug/L	0.3278 ppb	21:23:16
2	Sc Radial	3896.5	3896.5	110 %		21:21:28
2	Y RADIAL	4424.1	4424.1	110.6 %		21:21:08
2	Al 396.153Radial†	-112.0	11.6	11.286 ug/L	11.286 ppb	21:21:28
2	Ca 317.933Radial†	24.7	-8.8	-19.292 ug/L	-19.292 ppb	21:21:28
2	Fe 238.204 Radial†	6.3	-3.4	-49.118 ug/L	-49.118 ppb	21:21:28
2	K 766.490 Radial†	2898.4	-513.3	-95.965 ug/L	-95.965 ppb	21:21:08
2	Mg 279.077 IEC†	2.8	-0.1	-7.2268 ug/L	-7.2268 ppb	21:21:28
2	Na 589.592 Radial†	445.6	-3622.8	-1243.3 ug/L	-1243.3 ppb	21:21:08
2	Sr 421.552†	183.6	-1274.8	-9.5588 ug/L	-9.5588 ppb	21:21:08
2	Sc 361.383	793787.6	793787.6	105.65 %		21:22:25
2	Y 371.029	628935.8	628935.8	106.88 %		21:22:25
2	Ag 328.068†	159.4	-175.5	-0.9313 ug/L	-0.9313 ppb	21:22:25
2	As 188.979†	-24.2	-2.2	-1.0463 ug/L	-1.0463 ppb	21:22:45
2	B 249.677†	-301.8	156.3	3.8888 ug/L	3.8888 ppb	21:22:45
2	Ba 233.527†	40.6	-106.6	-0.9068 ug/L	-0.9068 ppb	21:22:45
2	Be 313.107†	-4613.0	-10.4	-0.0032 ug/L	-0.0032 ppb	21:22:25
2	Cd 226.502†	-202.6	3.4	0.0525 ug/L	0.0525 ppb	21:22:45
2	Co 228.616†	-60.8	12.8	0.2788 ug/L	0.2788 ppb	21:22:45
2	Cr 267.716†	78.8	-3.2	-0.0511 ug/L	-0.0511 ppb	21:22:45
2	Cu 324.752†	5963.7	-807.5	-2.5255 ug/L	-2.5255 ppb	21:22:25
2	Mn 257.610†	418.8	-75.0	-0.0933 ug/L	-0.0933 ppb	21:22:45
2	Mo 202.031†	9.6	-0.9	-0.0770 ug/L	-0.0770 ppb	21:22:45
2	Ni 231.604†	86.2	2.5	0.0705 ug/L	0.0705 ppb	21:22:45

2	P 214.914†	205.2	-16.9	-9.8081 ug/L	-9.8081 ppb	21:22:45
2	Pb 220.353†	-57.5	-75.3	-10.453 ug/L	-10.453 ppb	21:22:45
2	S 181.975 Axial†	37.9	-1.5	-2.2145 ug/L	-2.2145 ppb	21:22:45
2	Sb 206.836†	40.5	1.9	0.6862 ug/L	0.6862 ppb	21:22:45
2	Se 196.026†	-25.2	5.5	3.5259 ug/L	3.5259 ppb	21:22:45
2	Si 251.611†	555.5	29.3	0.9825 ug/L	0.9825 ppb	21:22:45
2	Sn 189.927†	7.5	-8.2	-1.6485 ug/L	-1.6485 ppb	21:22:45
2	Ti 334.940†	-1317.2	233.2	0.3794 ug/L	0.3794 ppb	21:22:25
2	Tl 190.801†	-35.8	-1.4	-0.4625 ug/L	-0.4625 ppb	21:22:45
2	U 409.014†	-2849.3	366.2	13.335 ug/L	13.335 ppb	21:22:25
2	V 292.402†	-1670.4	111.7	0.9458 ug/L	0.9458 ppb	21:22:25
2	Zn 213.857†	619.1	-57.8	-0.5961 ug/L	-0.5961 ppb	21:22:45
2	SiO2†	568.1	45.5	3.2483 ug/L	3.2483 ppb	21:23:21
3	Sc Radial	3917.5	3917.5	111 %		21:21:53
3	Y RADIAL	4446.1	4446.1	111.2 %		21:21:33
3	Al 396.153Radial†	-113.7	10.6	10.298 ug/L	10.298 ppb	21:21:53
3	Ca 317.933Radial†	30.9	-3.3	-7.3063 ug/L	-7.3063 ppb	21:21:53
3	Fe 238.204 Radial†	9.4	-0.7	-9.8722 ug/L	-9.8722 ppb	21:21:53
3	K 766.490 Radial†	2787.1	-627.9	-117.50 ug/L	-117.50 ppb	21:21:33
3	Mg 279.077 IEC†	3.6	0.6	28.560 ug/L	28.560 ppb	21:21:53
3	Na 589.592 Radial†	511.8	-3565.2	-1223.6 ug/L	-1223.6 ppb	21:21:33
3	Sr 421.552†	344.2	-1130.7	-8.4785 ug/L	-8.4785 ppb	21:21:33
3	Sc 361.383	801661.5	801661.5	106.70 %		21:22:51
3	Y 371.029	635775.4	635775.4	108.04 %		21:22:51
3	Ag 328.068†	203.5	-135.6	-0.7088 ug/L	-0.7088 ppb	21:22:51
3	As 188.979†	-24.5	-2.2	-1.0348 ug/L	-1.0348 ppb	21:23:11
3	B 249.677†	-330.5	132.2	3.2841 ug/L	3.2841 ppb	21:23:11
3	Ba 233.527†	53.0	-95.4	-0.8090 ug/L	-0.8090 ppb	21:23:11
3	Be 313.107†	-4715.2	-63.3	-0.0241 ug/L	-0.0241 ppb	21:22:51
3	Cd 226.502†	-187.5	19.4	0.2593 ug/L	0.2593 ppb	21:23:11
3	Co 228.616†	-72.0	2.9	0.0629 ug/L	0.0629 ppb	21:23:11
3	Cr 267.716†	58.4	-23.1	-0.3053 ug/L	-0.3053 ppb	21:23:11
3	Cu 324.752†	5933.3	-891.5	-2.7836 ug/L	-2.7836 ppb	21:22:51
3	Mn 257.610†	426.1	-72.0	-0.0874 ug/L	-0.0874 ppb	21:23:11
3	Mo 202.031†	14.6	3.7	0.2998 ug/L	0.2998 ppb	21:23:11
3	Ni 231.604†	80.4	-3.8	-0.1070 ug/L	-0.1070 ppb	21:23:11
3	P 214.914†	220.9	-4.1	-1.9579 ug/L	-1.9579 ppb	21:23:11
3	Pb 220.353†	-55.0	-72.5	-10.059 ug/L	-10.059 ppb	21:23:11
3	S 181.975 Axial†	49.4	8.9	12.802 ug/L	12.802 ppb	21:23:11
3	Sb 206.836†	37.4	-1.3	-0.4735 ug/L	-0.4735 ppb	21:23:11
3	Se 196.026†	-24.9	5.9	3.9717 ug/L	3.9717 ppb	21:23:11
3	Si 251.611†	561.0	29.3	0.9775 ug/L	0.9775 ppb	21:23:11
3	Sn 189.927†	12.5	-3.6	-0.7279 ug/L	-0.7279 ppb	21:23:11
3	Ti 334.940†	-1351.8	213.0	0.3458 ug/L	0.3458 ppb	21:22:51
3	Tl 190.801†	-22.0	11.9	3.9999 ug/L	3.9999 ppb	21:23:11
3	U 409.014†	-2954.1	294.5	10.720 ug/L	10.720 ppb	21:22:51
3	V 292.402†	-1620.8	173.6	1.4484 ug/L	1.4484 ppb	21:22:51
3	Zn 213.857†	629.5	-53.8	-0.5591 ug/L	-0.5591 ppb	21:23:11
3	SiO2†	560.2	32.8	2.3297 ug/L	2.3297 ppb	21:23:26

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	797266.4	106.11 %	0.535			0.50%
Sc Radial	3907.0	110 %	0.3			0.27%
Y 371.029	631538.2	107.32 %	0.629			0.59%
Y RADIAL	4413.1	110.4 %	0.99			0.90%
Ag 328.068†	-174.9	-0.9183 ug/L	0.20336	-0.9183 ppb	0.20336	22.14%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	11.3	10.935 ug/L	0.5527	10.935 ppb	0.5527	5.05%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.3	-1.0693 ug/L	0.05014	-1.0693 ppb	0.05014	4.69%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	154.2	3.8311 ug/L	0.52057	3.8311 ppb	0.52057	13.59%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-97.7	-0.8294 ug/L	0.06947	-0.8294 ppb	0.06947	8.38%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-36.7	-0.0137 ug/L	0.01043	-0.0137 ppb	0.01043	76.26%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	71.9	157.12 ug/L	295.232	157.12 ppb	295.232	187.90%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated
Cd 226.502† 12.4 0.1683 ug/L 0.10558 0.1683 ppb 0.10558 62.74%
QC value within limits for Cd 226.502 Recovery = Not calculated
Co 228.616† 9.3 0.2045 ug/L 0.12270 0.2045 ppb 0.12270 59.99%
QC value within limits for Co 228.616 Recovery = Not calculated
Cr 267.716† -16.5 -0.2205 ug/L 0.14675 -0.2205 ppb 0.14675 66.55%
QC value within limits for Cr 267.716 Recovery = Not calculated
Cu 324.752† -835.0 -2.6085 ug/L 0.15168 -2.6085 ppb 0.15168 5.81%
QC value within limits for Cu 324.752 Recovery = Not calculated
Fe 238.204 Radial† -1.2 -17.342 ug/L 28.7784 -17.342 ppb 28.7784 165.95%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated
K 766.490 Radial† -559.7 -104.75 ug/L 11.305 -104.75 ppb 11.305 10.79%
QC value within limits for K 766.490 Radial Recovery = Not calculated
Mg 279.077 IEC† -0.6 -29.682 ug/L 72.1390 -29.682 ppb 72.1390 243.04%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated
Mn 257.610† -68.3 -0.0813 ug/L 0.01592 -0.0813 ppb 0.01592 19.59%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† 3.9 0.3198 ug/L 0.40719 0.3198 ppb 0.40719 127.32%
QC value within limits for Mo 202.031 Recovery = Not calculated
Na 589.592 Radial† -3579.0 -1228.3 ug/L 13.32 -1228.3 ppb 13.32 1.08%
QC value less than the lower limit for Na 589.592 Radial Recovery = Not calculated
Ni 231.604† -0.6 -0.0174 ug/L 0.08876 -0.0174 ppb 0.08876 511.41%
QC value within limits for Ni 231.604 Recovery = Not calculated
P 214.914† -16.3 -9.4344 ug/L 7.29687 -9.4344 ppb 7.29687 77.34%
QC value within limits for P 214.914 Recovery = Not calculated
Pb 220.353† -69.0 -9.5739 ug/L 1.19765 -9.5739 ppb 1.19765 12.51%
QC value within limits for Pb 220.353 Recovery = Not calculated
S 181.975 Axial† 1.7 2.4875 ug/L 8.94443 2.4875 ppb 8.94443 359.58%
QC value within limits for S 181.975 Axial Recovery = Not calculated
Sb 206.836† 2.0 0.7229 ug/L 1.21514 0.7229 ppb 1.21514 168.10%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 6.5 4.3526 ug/L 1.06924 4.3526 ppb 1.06924 24.57%
QC value within limits for Se 196.026 Recovery = Not calculated
Si 251.611† 19.0 0.6312 ug/L 0.60414 0.6312 ppb 0.60414 95.72%
QC value within limits for Si 251.611 Recovery = Not calculated
Sn 189.927† -2.0 -0.3798 ug/L 1.47391 -0.3798 ppb 1.47391 388.03%
QC value within limits for Sn 189.927 Recovery = Not calculated
Sr 421.552† -1227.7 -9.2072 ug/L 0.63124 -9.2072 ppb 0.63124 6.86%
QC value less than the lower limit for Sr 421.552 Recovery = Not calculated
Ti 334.940† 197.5 0.3464 ug/L 0.03268 0.3464 ppb 0.03268 9.44%
QC value within limits for Ti 334.940 Recovery = Not calculated
Tl 190.801† 5.7 1.9207 ug/L 2.24664 1.9207 ppb 2.24664 116.97%
QC value within limits for Tl 190.801 Recovery = Not calculated
U 409.014† 315.4 11.481 ug/L 1.6145 11.481 ppb 1.6145 14.06%
QC value within limits for U 409.014 Recovery = Not calculated
V 292.402† 144.8 1.2139 ug/L 0.25301 1.2139 ppb 0.25301 20.84%
QC value within limits for V 292.402 Recovery = Not calculated
Zn 213.857† -54.7 -0.5676 ug/L 0.02530 -0.5676 ppb 0.02530 4.46%
QC value within limits for Zn 213.857 Recovery = Not calculated
SiO2† 27.7 1.9686 ug/L 1.49339 1.9686 ppb 1.49339 75.86%
QC value within limits for SiO2 Recovery = Not calculated
QC Failed. Continue with analysis.

Sequence No.: 52
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 2/19/2010 22:20:14
 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	3925.8	3925.8	111 %		22:22:26
1	Y RADIAL	4467.3	4467.3	111.7 %		22:22:06
1	Al 396.153Radial†	5501.7	5069.8	4905.2 ug/L	4905.2 ppb	22:22:06
1	Ca 317.933Radial†	2568.2	2282.5	4986.1 ug/L	4986.1 ppb	22:22:26
1	Fe 238.204 Radial†	394.3	346.1	5021.0 ug/L	5021.0 ppb	22:22:26
1	K 766.490 Radial†	31749.0	25458.9	4778.0 ug/L	4778.0 ppb	22:22:06
1	Mg 279.077 IEC†	114.1	100.2	5089.6 ug/L	5089.6 ppb	22:22:26
1	Na 589.592 Radial†	32987.7	25691.7	8817.1 ug/L	8817.1 ppb	22:22:06
1	Sr 421.552†	73052.1	64372.2	482.66 ug/L	482.66 ppb	22:22:06
1	Sc 361.383	809993.5	809993.5	107.81 %		22:23:23
1	Y 371.029	633660.4	633660.4	107.68 %		22:23:23
1	Ag 328.068†	103212.4	95410.7	497.40 ug/L	497.40 ppb	22:23:29
1	As 188.979†	1129.9	1068.8	499.36 ug/L	499.36 ppb	22:23:49
1	B 249.677†	20332.9	19302.2	477.01 ug/L	477.01 ppb	22:23:29
1	Ba 233.527†	61982.8	57348.5	489.38 ug/L	489.38 ppb	22:23:29
1	Be 313.107†	1336846.4	1244377.6	489.36 ug/L	489.36 ppb	22:23:23
1	Cd 226.502†	39610.0	36936.3	488.20 ug/L	488.20 ppb	22:23:29
1	Co 228.616†	24051.1	22379.4	490.47 ug/L	490.47 ppb	22:23:29
1	Cr 267.716†	40188.9	37200.3	487.16 ug/L	487.16 ppb	22:23:29
1	Cu 324.752†	175110.8	155975.7	485.88 ug/L	485.88 ppb	22:23:29
1	Mn 257.610†	446259.6	413466.8	489.56 ug/L	489.56 ppb	22:23:23
1	Mo 202.031†	6483.6	6004.1	491.74 ug/L	491.74 ppb	22:23:49
1	Ni 231.604†	18571.1	17146.9	487.55 ug/L	487.55 ppb	22:23:29
1	P 214.914†	4504.7	3967.3	2329.4 ug/L	2329.4 ppb	22:23:49
1	Pb 220.353†	3759.5	3466.3	483.57 ug/L	483.57 ppb	22:23:49
1	S 181.975 Axial†	773.3	679.9	976.93 ug/L	976.93 ppb	22:23:49
1	Sb 206.836†	1483.7	1339.9	508.85 ug/L	508.85 ppb	22:23:49
1	Se 196.026†	759.2	733.5	516.40 ug/L	516.40 ppb	22:23:49
1	Si 251.611†	80003.7	73712.7	2462.1 ug/L	2462.1 ppb	22:23:29
1	Sn 189.927†	2652.4	2445.0	492.84 ug/L	492.84 ppb	22:23:49
1	Ti 334.940†	310880.7	289844.3	481.04 ug/L	481.04 ppb	22:23:29
1	Tl 190.801†	1556.6	1476.4	498.95 ug/L	498.95 ppb	22:23:49
1	U 409.014†	12360.0	14527.9	527.11 ug/L	527.11 ppb	22:23:29
1	V 292.402†	62691.3	59843.5	496.75 ug/L	496.75 ppb	22:23:29
1	Zn 213.857†	51025.9	46686.4	485.43 ug/L	485.43 ppb	22:23:29
1	SiO2†	80619.7	74288.4	5281.9 ug/L	5281.9 ppb	22:24:56
2	Sc Radial	3948.4	3948.4	112 %		22:22:51
2	Y RADIAL	4372.5	4372.5	109.3 %		22:22:31
2	Al 396.153Radial†	5412.8	4961.8	4800.2 ug/L	4800.2 ppb	22:22:31
2	Ca 317.933Radial†	2567.9	2269.0	4956.6 ug/L	4956.6 ppb	22:22:51
2	Fe 238.204 Radial†	389.7	339.9	4932.2 ug/L	4932.2 ppb	22:22:51
2	K 766.490 Radial†	31232.5	24832.6	4660.4 ug/L	4660.4 ppb	22:22:31
2	Mg 279.077 IEC†	113.7	99.2	5043.0 ug/L	5043.0 ppb	22:22:51
2	Na 589.592 Radial†	32332.1	24934.4	8557.2 ug/L	8557.2 ppb	22:22:31
2	Sr 421.552†	71693.7	62778.8	470.71 ug/L	470.71 ppb	22:22:31
2	Sc 361.383	815133.7	815133.7	108.49 %		22:23:54
2	Y 371.029	638532.6	638532.6	108.51 %		22:23:54
2	Ag 328.068†	104603.1	96088.7	500.89 ug/L	500.89 ppb	22:24:00
2	As 188.979†	1139.4	1070.9	500.34 ug/L	500.34 ppb	22:24:20
2	B 249.677†	20749.3	19567.1	483.60 ug/L	483.60 ppb	22:24:00
2	Ba 233.527†	62532.5	57492.6	490.61 ug/L	490.61 ppb	22:24:00
2	Be 313.107†	1349154.5	1247902.7	490.75 ug/L	490.75 ppb	22:23:54
2	Cd 226.502†	40176.8	37227.1	492.06 ug/L	492.06 ppb	22:24:00
2	Co 228.616†	24249.5	22421.6	491.39 ug/L	491.39 ppb	22:24:00
2	Cr 267.716†	40565.2	37312.0	488.61 ug/L	488.61 ppb	22:24:00
2	Cu 324.752†	177604.8	157250.3	489.84 ug/L	489.84 ppb	22:24:00
2	Mn 257.610†	448479.4	412902.5	488.88 ug/L	488.88 ppb	22:23:54
2	Mo 202.031†	6516.1	5996.1	491.08 ug/L	491.08 ppb	22:24:20
2	Ni 231.604†	18790.1	17240.1	490.20 ug/L	490.20 ppb	22:24:00

2	P 214.914†	4511.7	3947.4	2316.5 ug/L	2316.5 ppb	22:24:20
2	Pb 220.353†	3799.5	3481.2	485.60 ug/L	485.60 ppb	22:24:20
2	S 181.975 Axial†	780.8	682.3	980.44 ug/L	980.44 ppb	22:24:20
2	Sb 206.836†	1478.3	1326.3	503.84 ug/L	503.84 ppb	22:24:20
2	Se 196.026†	750.8	721.4	507.84 ug/L	507.84 ppb	22:24:20
2	Si 251.611†	81113.1	74267.3	2480.7 ug/L	2480.7 ppb	22:24:00
2	Sn 189.927†	2666.5	2442.4	492.33 ug/L	492.33 ppb	22:24:20
2	Ti 334.940†	314963.2	291788.8	484.26 ug/L	484.26 ppb	22:24:00
2	Tl 190.801†	1575.1	1484.4	501.65 ug/L	501.65 ppb	22:24:20
2	U 409.014†	12724.4	14791.5	536.71 ug/L	536.71 ppb	22:24:00
2	V 292.402†	63587.0	60302.3	500.52 ug/L	500.52 ppb	22:24:00
2	Zn 213.857†	51787.2	47089.7	489.65 ug/L	489.65 ppb	22:24:00
2	SiO2†	81351.5	74491.3	5296.4 ug/L	5296.4 ppb	22:25:01
3	Sc Radial	3913.0	3913.0	111 %		22:23:16
3	Y RADIAL	4417.1	4417.1	110.5 %		22:22:56
3	Al 396.153Radial†	5489.0	5074.6	4909.7 ug/L	4909.7 ppb	22:22:56
3	Ca 317.933Radial†	2563.2	2285.6	4992.8 ug/L	4992.8 ppb	22:23:16
3	Fe 238.204 Radial†	388.2	341.8	4958.8 ug/L	4958.8 ppb	22:23:16
3	K 766.490 Radial†	31623.5	25439.4	4774.3 ug/L	4774.3 ppb	22:22:56
3	Mg 279.077 IEC†	111.2	97.8	4972.6 ug/L	4972.6 ppb	22:23:16
3	Na 589.592 Radial†	32773.3	25595.5	8784.1 ug/L	8784.1 ppb	22:22:56
3	Sr 421.552†	72801.0	64361.3	482.58 ug/L	482.58 ppb	22:22:56
3	Sc 361.383	811195.2	811195.2	107.97 %		22:24:25
3	Y 371.029	635459.8	635459.8	107.99 %		22:24:25
3	Ag 328.068†	104837.5	96774.0	504.47 ug/L	504.47 ppb	22:24:31
3	As 188.979†	1137.1	1073.9	501.77 ug/L	501.77 ppb	22:24:51
3	B 249.677†	20717.8	19630.8	485.16 ug/L	485.16 ppb	22:24:31
3	Ba 233.527†	62975.2	58182.4	496.49 ug/L	496.49 ppb	22:24:31
3	Be 313.107†	1344258.2	1249405.3	491.35 ug/L	491.35 ppb	22:24:25
3	Cd 226.502†	40478.0	37685.8	498.13 ug/L	498.13 ppb	22:24:31
3	Co 228.616†	24405.3	22674.5	496.93 ug/L	496.93 ppb	22:24:31
3	Cr 267.716†	40739.0	37654.6	493.10 ug/L	493.10 ppb	22:24:31
3	Cu 324.752†	178136.1	158537.2	493.85 ug/L	493.85 ppb	22:24:31
3	Mn 257.610†	447519.7	414020.6	490.21 ug/L	490.21 ppb	22:24:25
3	Mo 202.031†	6528.7	6036.9	494.42 ug/L	494.42 ppb	22:24:51
3	Ni 231.604†	18928.5	17452.4	496.24 ug/L	496.24 ppb	22:24:31
3	P 214.914†	4545.9	3999.3	2347.5 ug/L	2347.5 ppb	22:24:51
3	Pb 220.353†	3809.6	3507.6	489.31 ug/L	489.31 ppb	22:24:51
3	S 181.975 Axial†	770.1	675.8	971.08 ug/L	971.08 ppb	22:24:51
3	Sb 206.836†	1483.9	1338.1	508.31 ug/L	508.31 ppb	22:24:51
3	Se 196.026†	762.7	735.7	517.66 ug/L	517.66 ppb	22:24:51
3	Si 251.611†	81399.1	74895.2	2501.7 ug/L	2501.7 ppb	22:24:31
3	Sn 189.927†	2678.1	2465.2	496.91 ug/L	496.91 ppb	22:24:51
3	Ti 334.940†	316375.6	294506.5	488.78 ug/L	488.78 ppb	22:24:31
3	Tl 190.801†	1567.4	1484.3	501.61 ug/L	501.61 ppb	22:24:51
3	U 409.014†	12671.4	14799.3	536.98 ug/L	536.98 ppb	22:24:31
3	V 292.402†	63863.6	60843.1	504.99 ug/L	504.99 ppb	22:24:31
3	Zn 213.857†	52083.7	47596.0	494.92 ug/L	494.92 ppb	22:24:31
3	SiO2†	80770.8	74317.6	5283.9 ug/L	5283.9 ppb	22:25:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	812107.4	108.09 %	0.358			0.33%
Sc Radial	3929.1	111 %	0.5			0.46%
Y 371.029	635884.3	108.06 %	0.419			0.39%
Y RADIAL	4419.0	110.5 %	1.19			1.07%
Ag 328.068†	96091.1	500.92 ug/L	3.535	500.92 ppb	3.535	0.71%
QC value within limits for Ag 328.068 Recovery = 100.18%						
Al 396.153Radial†	5035.4	4871.7 ug/L	61.94	4871.7 ppb	61.94	1.27%
QC value within limits for Al 396.153Radial Recovery = 97.43%						
As 188.979†	1071.2	500.49 ug/L	1.210	500.49 ppb	1.210	0.24%
QC value within limits for As 188.979 Recovery = 100.10%						
B 249.677†	19500.0	481.93 ug/L	4.326	481.93 ppb	4.326	0.90%
QC value within limits for B 249.677 Recovery = 96.39%						
Ba 233.527†	57674.5	492.16 ug/L	3.802	492.16 ppb	3.802	0.77%
QC value within limits for Ba 233.527 Recovery = 98.43%						
Be 313.107†	1247228.5	490.49 ug/L	1.021	490.49 ppb	1.021	0.21%
QC value within limits for Be 313.107 Recovery = 98.10%						
Ca 317.933Radial†	2279.0	4978.5 ug/L	19.28	4978.5 ppb	19.28	0.39%

QC value within limits for Ca 317.933 Radial Recovery = 99.57%

Cd 226.502†	37283.0	492.80 ug/L	5.002	492.80 ppb	5.002	1.02%
QC value within limits for Cd 226.502 Recovery = 98.56%						
Co 228.616†	22491.8	492.93 ug/L	3.494	492.93 ppb	3.494	0.71%
QC value within limits for Co 228.616 Recovery = 98.59%						
Cr 267.716†	37389.0	489.62 ug/L	3.095	489.62 ppb	3.095	0.63%
QC value within limits for Cr 267.716 Recovery = 97.92%						
Cu 324.752†	157254.4	489.86 ug/L	3.985	489.86 ppb	3.985	0.81%
QC value within limits for Cu 324.752 Recovery = 97.97%						
Fe 238.204 Radial†	342.6	4970.7 ug/L	45.58	4970.7 ppb	45.58	0.92%
QC value within limits for Fe 238.204 Radial Recovery = 99.41%						
K 766.490 Radial†	25243.7	4737.6 ug/L	66.85	4737.6 ppb	66.85	1.41%
QC value within limits for K 766.490 Radial Recovery = 94.75%						
Mg 279.077 IEC†	99.1	5035.1 ug/L	58.92	5035.1 ppb	58.92	1.17%
QC value within limits for Mg 279.077 IEC Recovery = 100.70%						
Mn 257.610†	413463.3	489.55 ug/L	0.664	489.55 ppb	0.664	0.14%
QC value within limits for Mn 257.610 Recovery = 97.91%						
Mo 202.031†	6012.4	492.41 ug/L	1.771	492.41 ppb	1.771	0.36%
QC value within limits for Mo 202.031 Recovery = 98.48%						
Na 589.592 Radial†	25407.2	8719.5 ug/L	141.50	8719.5 ppb	141.50	1.62%
QC value less than the lower limit for Na 589.592 Radial Recovery = 87.19%						
Ni 231.604†	17279.8	491.33 ug/L	4.452	491.33 ppb	4.452	0.91%
QC value within limits for Ni 231.604 Recovery = 98.27%						
P 214.914†	3971.3	2331.1 ug/L	15.54	2331.1 ppb	15.54	0.67%
QC value within limits for P 214.914 Recovery = 93.24%						
Pb 220.353†	3485.0	486.16 ug/L	2.909	486.16 ppb	2.909	0.60%
QC value within limits for Pb 220.353 Recovery = 97.23%						
S 181.975 Axial†	679.4	976.15 ug/L	4.726	976.15 ppb	4.726	0.48%
QC value within limits for S 181.975 Axial Recovery = 97.62%						
Sb 206.836†	1334.7	507.00 ug/L	2.752	507.00 ppb	2.752	0.54%
QC value within limits for Sb 206.836 Recovery = 101.40%						
Se 196.026†	730.2	513.97 ug/L	5.342	513.97 ppb	5.342	1.04%
QC value within limits for Se 196.026 Recovery = 102.79%						
Si 251.611†	74291.7	2481.5 ug/L	19.79	2481.5 ppb	19.79	0.80%
QC value within limits for Si 251.611 Recovery = 99.26%						
Sn 189.927†	2450.8	494.03 ug/L	2.511	494.03 ppb	2.511	0.51%
QC value within limits for Sn 189.927 Recovery = 98.81%						
Sr 421.552†	63837.4	478.65 ug/L	6.875	478.65 ppb	6.875	1.44%
QC value within limits for Sr 421.552 Recovery = 95.73%						
Ti 334.940†	292046.5	484.69 ug/L	3.890	484.69 ppb	3.890	0.80%
QC value within limits for Ti 334.940 Recovery = 96.94%						
Tl 190.801†	1481.7	500.74 ug/L	1.546	500.74 ppb	1.546	0.31%
QC value within limits for Tl 190.801 Recovery = 100.15%						
U 409.014†	14706.2	533.60 ug/L	5.622	533.60 ppb	5.622	1.05%
QC value within limits for U 409.014 Recovery = 106.72%						
V 292.402†	60329.6	500.75 ug/L	4.125	500.75 ppb	4.125	0.82%
QC value within limits for V 292.402 Recovery = 100.15%						
Zn 213.857†	47124.0	490.00 ug/L	4.754	490.00 ppb	4.754	0.97%
QC value within limits for Zn 213.857 Recovery = 98.00%						
SiO2†	74365.8	5287.4 ug/L	7.85	5287.4 ppb	7.85	0.15%
QC value within limits for SiO2 Recovery = 98.88%						

QC Failed. Continue with analysis.

Sequence No.: 53
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 2/19/2010 22:27:16
 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	3947.1	3947.1	112 %		22:29:28
1	Y RADIAL	4486.1	4486.1	112.2 %		22:29:08
1	Al 396.153Radial†	-104.1	19.9	19.334 ug/L	19.334 ppb	22:29:28
1	Ca 317.933Radial†	29.7	-4.7	-10.192 ug/L	-10.192 ppb	22:29:28
1	Fe 238.204 Radial†	7.8	-2.2	-31.749 ug/L	-31.749 ppb	22:29:28
1	K 766.490 Radial†	2958.0	-493.6	-92.290 ug/L	-92.290 ppb	22:29:08
1	Mg 279.077 IEC†	-0.8	-3.3	-169.41 ug/L	-169.41 ppb	22:29:28
1	Na 589.592 Radial†	641.0	-3453.0	-1185.0 ug/L	-1185.0 ppb	22:29:08
1	Sr 421.552†	278.3	-1192.1	-8.9388 ug/L	-8.9388 ppb	22:29:08
1	Sc 361.383	796893.6	796893.6	106.06 %		22:30:25
1	Y 371.029	632114.0	632114.0	107.42 %		22:30:25
1	Ag 328.068†	230.4	-109.1	-0.5757 ug/L	-0.5757 ppb	22:30:25
1	As 188.979†	-28.3	-6.0	-2.7827 ug/L	-2.7827 ppb	22:30:45
1	B 249.677†	-315.0	145.0	3.6034 ug/L	3.6034 ppb	22:30:45
1	Ba 233.527†	41.0	-106.4	-0.9043 ug/L	-0.9043 ppb	22:30:45
1	Be 313.107†	-4624.0	-3.8	-0.0007 ug/L	-0.0007 ppb	22:30:25
1	Cd 226.502†	-191.0	15.1	0.2039 ug/L	0.2039 ppb	22:30:45
1	Co 228.616†	-59.5	14.2	0.3131 ug/L	0.3131 ppb	22:30:45
1	Cr 267.716†	105.7	21.8	0.2813 ug/L	0.2813 ppb	22:30:45
1	Cu 324.752†	5944.5	-847.6	-2.6459 ug/L	-2.6459 ppb	22:30:25
1	Mn 257.610†	421.3	-74.1	-0.0838 ug/L	-0.0838 ppb	22:30:45
1	Mo 202.031†	21.8	10.6	0.8643 ug/L	0.8643 ppb	22:30:45
1	Ni 231.604†	86.2	2.1	0.0607 ug/L	0.0607 ppb	22:30:45
1	P 214.914†	212.9	-10.3	-5.7719 ug/L	-5.7719 ppb	22:30:45
1	Pb 220.353†	-54.5	-72.3	-10.032 ug/L	-10.032 ppb	22:30:45
1	S 181.975 Axial†	43.4	3.5	5.0919 ug/L	5.0919 ppb	22:30:45
1	Sb 206.836†	37.8	-0.8	-0.2663 ug/L	-0.2663 ppb	22:30:45
1	Se 196.026†	-15.5	14.7	9.8272 ug/L	9.8272 ppb	22:30:45
1	Si 251.611†	558.8	30.3	1.0048 ug/L	1.0048 ppb	22:30:45
1	Sn 189.927†	14.3	-1.9	-0.3760 ug/L	-0.3760 ppb	22:30:45
1	Ti 334.940†	-1364.0	194.0	0.3315 ug/L	0.3315 ppb	22:30:25
1	Tl 190.801†	-24.9	9.1	3.0569 ug/L	3.0569 ppb	22:30:45
1	U 409.014†	-3061.4	176.7	6.4352 ug/L	6.4352 ppb	22:30:25
1	V 249.402†	-1652.7	134.5	1.1269 ug/L	1.1269 ppb	22:30:25
1	Zn 213.857†	605.6	-72.8	-0.7560 ug/L	-0.7560 ppb	22:30:45
1	SiO2†	538.1	15.1	1.0548 ug/L	1.0548 ppb	22:31:41
2	Sc Radial	3947.0	3947.0	112 %		22:29:53
2	Y RADIAL	4466.0	4466.0	111.7 %		22:29:33
2	Al 396.153Radial†	-110.1	14.6	14.144 ug/L	14.144 ppb	22:29:53
2	Ca 317.933Radial†	31.0	-3.5	-7.5407 ug/L	-7.5407 ppb	22:29:53
2	Fe 238.204 Radial†	9.3	-0.8	-11.452 ug/L	-11.452 ppb	22:29:53
2	K 766.490 Radial†	2930.2	-518.5	-96.957 ug/L	-96.957 ppb	22:29:33
2	Mg 279.077 IEC†	-0.6	-3.2	-163.38 ug/L	-163.38 ppb	22:29:53
2	Na 589.592 Radial†	579.6	-3508.0	-1203.9 ug/L	-1203.9 ppb	22:29:33
2	Sr 421.552†	293.3	-1178.6	-8.8379 ug/L	-8.8379 ppb	22:29:33
2	Sc 361.383	805486.7	805486.7	107.21 %		22:30:50
2	Y 371.029	639283.1	639283.1	108.64 %		22:30:50
2	Ag 328.068†	185.1	-153.7	-0.8023 ug/L	-0.8023 ppb	22:30:50
2	As 188.979†	-24.6	-2.3	-1.0448 ug/L	-1.0448 ppb	22:31:10
2	B 249.677†	-289.0	172.4	4.2805 ug/L	4.2805 ppb	22:31:10
2	Ba 233.527†	42.0	-105.9	-0.8994 ug/L	-0.8994 ppb	22:31:10
2	Be 313.107†	-4663.4	5.9	0.0030 ug/L	0.0030 ppb	22:30:50
2	Cd 226.502†	-191.1	16.9	0.2259 ug/L	0.2259 ppb	22:31:10
2	Co 228.616†	-66.0	8.7	0.1917 ug/L	0.1917 ppb	22:31:10
2	Cr 267.716†	89.2	5.4	0.0681 ug/L	0.0681 ppb	22:31:10
2	Cu 324.752†	5921.7	-928.7	-2.8985 ug/L	-2.8985 ppb	22:30:50
2	Mn 257.610†	442.3	-58.7	-0.0639 ug/L	-0.0639 ppb	22:31:10
2	Mo 202.031†	17.6	6.5	0.5291 ug/L	0.5291 ppb	22:31:10
2	Ni 231.604†	91.6	6.3	0.1783 ug/L	0.1783 ppb	22:31:10

2	P 214.914†	211.2	-14.1	-8.0070 ug/L	-8.0070 ppb	22:31:10
2	Pb 220.353†	-42.0	-60.0	-8.3319 ug/L	-8.3319 ppb	22:31:10
2	S 181.975 Axial†	35.6	-4.2	-6.0069 ug/L	-6.0069 ppb	22:31:10
2	Sb 206.836†	35.8	-3.0	-1.0779 ug/L	-1.0779 ppb	22:31:10
2	Se 196.026†	-31.8	-0.4	-0.3032 ug/L	-0.3032 ppb	22:31:10
2	Si 251.611†	561.3	27.0	0.8983 ug/L	0.8983 ppb	22:31:10
2	Sn 189.927†	20.1	3.4	0.6874 ug/L	0.6874 ppb	22:31:10
2	Ti 334.940†	-1385.7	187.4	0.3197 ug/L	0.3197 ppb	22:30:50
2	Tl 190.801†	-20.7	13.2	4.4417 ug/L	4.4417 ppb	22:31:10
2	U 409.014†	-3032.7	234.3	8.5279 ug/L	8.5279 ppb	22:30:50
2	V 292.402†	-1668.6	136.3	1.1386 ug/L	1.1386 ppb	22:30:50
2	Zn 213.857†	624.2	-61.6	-0.6415 ug/L	-0.6415 ppb	22:31:10
2	SiO2†	553.5	24.1	1.7004 ug/L	1.7004 ppb	22:31:46
3	Sc Radial	3965.4	3965.4	112 %		22:30:18
3	Y RADIAL	4389.5	4389.5	109.8 %		22:29:58
3	Al 396.153Radial†	-116.9	9.0	8.7164 ug/L	8.7164 ppb	22:30:18
3	Ca 317.933Radial†	24.0	-9.8	-21.469 ug/L	-21.469 ppb	22:30:18
3	Fe 238.204 Radial†	11.0	0.6	9.0580 ug/L	9.0580 ppb	22:30:18
3	K 766.490 Radial†	3002.7	-465.9	-87.077 ug/L	-87.077 ppb	22:29:58
3	Mg 279.077 IEC†	0.7	-2.0	-101.83 ug/L	-101.83 ppb	22:30:18
3	Na 589.592 Radial†	609.2	-3484.0	-1195.7 ug/L	-1195.7 ppb	22:29:58
3	Sr 421.552†	175.4	-1285.0	-9.6356 ug/L	-9.6356 ppb	22:29:58
3	Sc 361.383	793986.3	793986.3	105.68 %		22:31:15
3	Y 371.029	629895.6	629895.6	107.04 %		22:31:15
3	Ag 328.068†	210.9	-126.8	-0.6541 ug/L	-0.6541 ppb	22:31:15
3	As 188.979†	-27.6	-5.5	-2.5265 ug/L	-2.5265 ppb	22:31:35
3	B 249.677†	-325.1	134.4	3.3328 ug/L	3.3328 ppb	22:31:35
3	Ba 233.527†	84.5	-65.1	-0.5505 ug/L	-0.5505 ppb	22:31:35
3	Be 313.107†	-4504.9	92.9	0.0374 ug/L	0.0374 ppb	22:31:15
3	Cd 226.502†	-193.7	11.8	0.1569 ug/L	0.1569 ppb	22:31:35
3	Co 228.616†	-52.4	20.8	0.4555 ug/L	0.4555 ppb	22:31:35
3	Cr 267.716†	72.7	-9.0	-0.1178 ug/L	-0.1178 ppb	22:31:35
3	Cu 324.752†	5908.6	-861.1	-2.6859 ug/L	-2.6859 ppb	22:31:15
3	Mn 257.610†	436.3	-58.4	-0.0641 ug/L	-0.0641 ppb	22:31:35
3	Mo 202.031†	19.0	8.0	0.6581 ug/L	0.6581 ppb	22:31:35
3	Ni 231.604†	85.9	2.2	0.0617 ug/L	0.0617 ppb	22:31:35
3	P 214.914†	212.0	-10.5	-5.9008 ug/L	-5.9008 ppb	22:31:35
3	Pb 220.353†	-44.9	-63.4	-8.7961 ug/L	-8.7961 ppb	22:31:35
3	S 181.975 Axial†	37.2	-2.2	-3.1442 ug/L	-3.1442 ppb	22:31:35
3	Sb 206.836†	31.0	-7.0	-2.5485 ug/L	-2.5485 ppb	22:31:35
3	Se 196.026†	-30.8	0.2	0.1415 ug/L	0.1415 ppb	22:31:35
3	Si 251.611†	536.2	10.9	0.3570 ug/L	0.3570 ppb	22:31:35
3	Sn 189.927†	18.4	2.1	0.4215 ug/L	0.4215 ppb	22:31:35
3	Ti 334.940†	-1308.2	242.0	0.4042 ug/L	0.4042 ppb	22:31:15
3	Tl 190.801†	-21.5	12.2	4.0859 ug/L	4.0859 ppb	22:31:35
3	U 409.014†	-3033.4	192.7	7.0132 ug/L	7.0132 ppb	22:31:15
3	V 292.402†	-1610.2	169.0	1.4030 ug/L	1.4030 ppb	22:31:15
3	Zn 213.857†	625.6	-51.8	-0.5414 ug/L	-0.5414 ppb	22:31:35
3	SiO2†	554.1	32.1	2.2725 ug/L	2.2725 ppb	22:31:51

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	798788.9	106.32 %	0.796			0.75%
Sc Radial	3953.2	112 %	0.3			0.27%
Y 371.029	633764.2	107.70 %	0.834			0.77%
Y RADIAL	4447.2	111.2 %	1.27			1.15%
Ag 328.068†	-129.9	-0.6774 ug/L	0.11509	-0.6774 ppb	0.11509	16.99%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	14.5	14.065 ug/L	5.3091	14.065 ppb	5.3091	37.75%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-4.6	-2.1180 ug/L	0.93825	-2.1180 ppb	0.93825	44.30%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	150.6	3.7389 ug/L	0.48818	3.7389 ppb	0.48818	13.06%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-92.5	-0.7847 ug/L	0.20283	-0.7847 ppb	0.20283	25.85%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	31.7	0.0132 ug/L	0.02100	0.0132 ppb	0.02100	158.84%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-6.0	-13.067 ug/L	7.3958	-13.067 ppb	7.3958	56.60%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	14.6	0.1956 ug/L	0.03521	0.1956 ppb	0.03521	18.00%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	14.6	0.3201 ug/L	0.13204	0.3201 ppb	0.13204	41.24%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	6.1	0.0772 ug/L	0.19972	0.0772 ppb	0.19972	258.67%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-879.1	-2.7434 ug/L	0.13578	-2.7434 ppb	0.13578	4.95%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-0.8	-11.381 ug/L	20.4038	-11.381 ppb	20.4038	179.28%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-492.7	-92.108 ug/L	4.9422	-92.108 ppb	4.9422	5.37%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-2.9	-144.87 ug/L	37.396	-144.87 ppb	37.396	25.81%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-63.7	-0.0706 ug/L	0.01145	-0.0706 ppb	0.01145	16.21%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	8.4	0.6838 ug/L	0.16910	0.6838 ppb	0.16910	24.73%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-3481.6	-1194.9 ug/L	9.46	-1194.9 ppb	9.46	0.79%	
QC value less than the lower limit for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	3.5	0.1002 ug/L	0.06761	0.1002 ppb	0.06761	67.45%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-11.7	-6.5599 ug/L	1.25484	-6.5599 ppb	1.25484	19.13%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-65.2	-9.0535 ug/L	0.87903	-9.0535 ppb	0.87903	9.71%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-0.9	-1.3530 ug/L	5.76213	-1.3530 ppb	5.76213	425.86%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-3.6	-1.2976 ug/L	1.15682	-1.2976 ppb	1.15682	89.15%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	4.8	3.2218 ug/L	5.72473	3.2218 ppb	5.72473	177.69%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	22.8	0.7534 ug/L	0.34740	0.7534 ppb	0.34740	46.11%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	1.2	0.2443 ug/L	0.55339	0.2443 ppb	0.55339	226.50%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-1218.6	-9.1374 ug/L	0.43435	-9.1374 ppb	0.43435	4.75%	
QC value less than the lower limit for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	207.8	0.3518 ug/L	0.04577	0.3518 ppb	0.04577	13.01%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	11.5	3.8615 ug/L	0.71914	3.8615 ppb	0.71914	18.62%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	201.2	7.3254 ug/L	1.08077	7.3254 ppb	1.08077	14.75%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	146.6	1.2228 ug/L	0.15616	1.2228 ppb	0.15616	12.77%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-62.0	-0.6463 ug/L	0.10740	-0.6463 ppb	0.10740	16.62%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	23.8	1.6759 ug/L	0.60922	1.6759 ppb	0.60922	36.35%	
QC value within limits for SiO2 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 62
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 2/19/2010 23:28:44
 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	3963.0	3963.0	112 %		23:30:56
1	Y RADIAL	4455.2	4455.2	111.4 %		23:30:36
1	Al 396.153Radial†	5529.0	5047.7	4883.4 ug/L	4883.4 ppb	23:30:36
1	Ca 317.933Radial†	2592.5	2282.5	4986.1 ug/L	4986.1 ppb	23:30:56
1	Fe 238.204 Radial†	390.5	339.4	4924.5 ug/L	4924.5 ppb	23:30:56
1	K 766.490 Radial†	31785.8	25223.4	4733.8 ug/L	4733.8 ppb	23:30:36
1	Mg 279.077 IEC†	115.1	100.1	5085.1 ug/L	5085.1 ppb	23:30:56
1	Na 589.592 Radial†	32571.4	25041.4	8593.9 ug/L	8593.9 ppb	23:30:36
1	Sr 421.552†	73014.2	63720.9	477.78 ug/L	477.78 ppb	23:30:36
1	Sc 361.383	811280.1	811280.1	107.98 %		23:31:53
1	Y 371.029	636127.8	636127.8	108.10 %		23:31:53
1	Ag 328.068†	105417.8	97301.2	507.19 ug/L	507.19 ppb	23:31:58
1	As 188.979†	1144.4	1080.6	504.92 ug/L	504.92 ppb	23:32:19
1	B 249.677†	20701.5	19613.7	484.75 ug/L	484.75 ppb	23:31:58
1	Ba 233.527†	63036.9	58233.5	496.93 ug/L	496.93 ppb	23:31:58
1	Be 313.107†	1342605.4	1247744.5	490.72 ug/L	490.72 ppb	23:31:53
1	Cd 226.502†	40517.9	37718.8	498.57 ug/L	498.57 ppb	23:31:58
1	Co 228.616†	24388.8	22656.8	496.53 ug/L	496.53 ppb	23:31:58
1	Cr 267.716†	40748.4	37659.4	493.16 ug/L	493.16 ppb	23:31:58
1	Cu 324.752†	178648.4	158994.3	495.27 ug/L	495.27 ppb	23:31:58
1	Mn 257.610†	447582.3	414035.2	490.22 ug/L	490.22 ppb	23:31:53
1	Mo 202.031†	6562.3	6067.4	496.91 ug/L	496.91 ppb	23:32:19
1	Ni 231.604†	18934.8	17456.4	496.35 ug/L	496.35 ppb	23:31:58
1	P 214.914†	4557.6	4009.7	2353.6 ug/L	2353.6 ppb	23:32:19
1	Pb 220.353†	3810.0	3507.6	489.30 ug/L	489.30 ppb	23:32:19
1	S 181.975 Axial†	783.0	687.7	988.19 ug/L	988.19 ppb	23:32:19
1	Sb 206.836†	1491.6	1345.0	510.92 ug/L	510.92 ppb	23:32:19
1	Se 196.026†	765.1	737.8	519.00 ug/L	519.00 ppb	23:32:19
1	Si 251.611†	81581.3	75056.0	2507.0 ug/L	2507.0 ppb	23:31:58
1	Sn 189.927†	2694.5	2480.1	499.92 ug/L	499.92 ppb	23:32:19
1	Ti 334.940†	321262.9	299002.0	496.23 ug/L	496.23 ppb	23:31:53
1	Tl 190.801†	1576.9	1493.0	504.60 ug/L	504.60 ppb	23:32:19
1	U 409.014†	12775.8	14894.8	540.46 ug/L	540.46 ppb	23:31:58
1	V 292.402†	63949.2	60916.2	505.63 ug/L	505.63 ppb	23:31:58
1	Zn 213.857†	52060.9	47569.9	494.64 ug/L	494.64 ppb	23:31:58
1	SiO2†	80864.0	74396.1	5289.5 ug/L	5289.5 ppb	23:33:26
2	Sc Radial	3931.8	3931.8	111 %		23:31:21
2	Y RADIAL	4528.6	4528.6	113.3 %		23:31:01
2	Al 396.153Radial†	5590.5	5142.1	4975.4 ug/L	4975.4 ppb	23:31:01
2	Ca 317.933Radial†	2578.0	2287.8	4997.7 ug/L	4997.7 ppb	23:31:21
2	Fe 238.204 Radial†	391.8	343.3	4981.1 ug/L	4981.1 ppb	23:31:21
2	K 766.490 Radial†	32247.9	25864.1	4854.1 ug/L	4854.1 ppb	23:31:01
2	Mg 279.077 IEC†	110.5	96.8	4917.1 ug/L	4917.1 ppb	23:31:21
2	Na 589.592 Radial†	33124.7	25769.6	8843.8 ug/L	8843.8 ppb	23:31:01
2	Sr 421.552†	74235.1	65335.9	489.89 ug/L	489.89 ppb	23:31:01
2	Sc 361.383	820882.8	820882.8	109.26 %		23:32:25
2	Y 371.029	643861.3	643861.3	109.41 %		23:32:25
2	Ag 328.068†	104475.7	95296.9	496.79 ug/L	496.79 ppb	23:32:30
2	As 188.979†	1147.4	1070.9	500.47 ug/L	500.47 ppb	23:32:50
2	B 249.677†	20449.4	19158.6	473.46 ug/L	473.46 ppb	23:32:30
2	Ba 233.527†	62600.1	57150.8	487.70 ug/L	487.70 ppb	23:32:30
2	Be 313.107†	1362152.0	1251089.6	492.03 ug/L	492.03 ppb	23:32:25
2	Cd 226.502†	40280.5	37062.5	489.88 ug/L	489.88 ppb	23:32:30
2	Co 228.616†	24224.4	22242.1	487.43 ug/L	487.43 ppb	23:32:30
2	Cr 267.716†	40752.0	37221.2	487.43 ug/L	487.43 ppb	23:32:30
2	Cu 324.752†	176709.9	155284.7	483.72 ug/L	483.72 ppb	23:32:30
2	Mn 257.610†	452429.4	413622.8	489.74 ug/L	489.74 ppb	23:32:25
2	Mo 202.031†	6580.6	6013.1	492.47 ug/L	492.47 ppb	23:32:50
2	Ni 231.604†	18777.3	17107.2	486.42 ug/L	486.42 ppb	23:32:30

2	P 214.914†	4563.9	3966.0	2329.1 ug/L	2329.1 ppb	23:32:50
2	Pb 220.353†	3853.7	3506.3	489.13 ug/L	489.13 ppb	23:32:50
2	S 181.975 Axial†	794.3	689.6	990.84 ug/L	990.84 ppb	23:32:50
2	Sb 206.836†	1509.6	1345.3	510.84 ug/L	510.84 ppb	23:32:50
2	Se 196.026†	771.6	735.5	517.60 ug/L	517.60 ppb	23:32:50
2	Si 251.611†	80577.1	73253.1	2446.7 ug/L	2446.7 ppb	23:32:30
2	Sn 189.927†	2697.4	2453.5	494.57 ug/L	494.57 ppb	23:32:50
2	Ti 334.940†	325658.6	299544.8	497.15 ug/L	497.15 ppb	23:32:25
2	Tl 190.801†	1589.3	1487.2	502.72 ug/L	502.72 ppb	23:32:50
2	U 409.014†	12826.6	14802.9	537.12 ug/L	537.12 ppb	23:32:30
2	V 292.402†	63647.8	59947.5	497.62 ug/L	497.62 ppb	23:32:30
2	Zn 213.857†	51635.6	46616.6	484.71 ug/L	484.71 ppb	23:32:30
2	SiO2†	80986.6	73632.2	5235.1 ug/L	5235.1 ppb	23:33:32
3	Sc Radial	3956.4	3956.4	112 %		23:31:46
3	Y RADIAL	4419.4	4419.4	110.5 %		23:31:26
3	Al 396.153Radial†	5485.7	5017.2	4853.9 ug/L	4853.9 ppb	23:31:26
3	Ca 317.933Radial†	2584.7	2279.4	4979.3 ug/L	4979.3 ppb	23:31:46
3	Fe 238.204 Radial†	395.0	344.0	4991.0 ug/L	4991.0 ppb	23:31:46
3	K 766.490 Radial†	31751.9	25240.8	4737.1 ug/L	4737.1 ppb	23:31:26
3	Mg 279.077 IEC†	113.6	98.9	5024.7 ug/L	5024.7 ppb	23:31:46
3	Na 589.592 Radial†	32502.2	25028.4	8589.5 ug/L	8589.5 ppb	23:31:26
3	Sr 421.552†	72686.5	63537.7	476.40 ug/L	476.40 ppb	23:31:26
3	Sc 361.383	815129.8	815129.8	108.49 %		23:32:56
3	Y 371.029	638289.2	638289.2	108.47 %		23:32:56
3	Ag 328.068†	105090.2	96538.2	503.25 ug/L	503.25 ppb	23:33:01
3	As 188.979†	1143.0	1074.2	502.02 ug/L	502.02 ppb	23:33:21
3	B 249.677†	20813.0	19625.9	485.05 ug/L	485.05 ppb	23:33:01
3	Ba 233.527†	62983.0	57908.1	494.16 ug/L	494.16 ppb	23:33:01
3	Be 313.107†	1354971.4	1253270.3	492.89 ug/L	492.89 ppb	23:32:56
3	Cd 226.502†	40517.5	37541.3	496.21 ug/L	496.21 ppb	23:33:01
3	Co 228.616†	24359.0	22522.7	493.59 ug/L	493.59 ppb	23:33:01
3	Cr 267.716†	40862.7	37586.5	492.21 ug/L	492.21 ppb	23:33:01
3	Cu 324.752†	178160.9	157763.6	491.44 ug/L	491.44 ppb	23:33:01
3	Mn 257.610†	451180.0	415393.7	491.84 ug/L	491.84 ppb	23:32:56
3	Mo 202.031†	6566.5	6042.6	494.89 ug/L	494.89 ppb	23:33:21
3	Ni 231.604†	18983.4	17418.4	495.27 ug/L	495.27 ppb	23:33:01
3	P 214.914†	4546.6	3979.6	2335.9 ug/L	2335.9 ppb	23:33:21
3	Pb 220.353†	3838.9	3517.5	490.67 ug/L	490.67 ppb	23:33:21
3	S 181.975 Axial†	776.6	678.5	974.87 ug/L	974.87 ppb	23:33:21
3	Sb 206.836†	1507.6	1353.3	513.85 ug/L	513.85 ppb	23:33:21
3	Se 196.026†	756.6	726.7	511.66 ug/L	511.66 ppb	23:33:21
3	Si 251.611†	81368.7	74503.3	2488.6 ug/L	2488.6 ppb	23:33:01
3	Sn 189.927†	2691.5	2465.5	496.98 ug/L	496.98 ppb	23:33:21
3	Ti 334.940†	323709.3	299851.7	497.65 ug/L	497.65 ppb	23:32:56
3	Tl 190.801†	1580.2	1489.0	503.31 ug/L	503.31 ppb	23:33:21
3	U 409.014†	12727.7	14794.6	536.80 ug/L	536.80 ppb	23:33:01
3	V 292.402†	63909.4	60599.8	502.99 ug/L	502.99 ppb	23:33:01
3	Zn 213.857†	52097.0	47375.5	492.61 ug/L	492.61 ppb	23:33:01
3	SiO2†	81065.3	74227.9	5277.5 ug/L	5277.5 ppb	23:33:37

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	815764.2	108.58 %	0.643			0.59%
Sc Radial	3950.4	112 %	0.5			0.42%
Y 371.029	639426.1	108.66 %	0.678			0.62%
Y RADIAL	4467.7	111.7 %	1.39			1.25%
Ag 328.068†	96378.7	502.41 ug/L	5.249	502.41 ppb	5.249	1.04%
QC value within limits for Ag 328.068 Recovery = 100.48%						
Al 396.153Radial†	5069.0	4904.2 ug/L	63.40	4904.2 ppb	63.40	1.29%
QC value within limits for Al 396.153Radial Recovery = 98.08%						
As 188.979†	1075.2	502.47 ug/L	2.258	502.47 ppb	2.258	0.45%
QC value within limits for As 188.979 Recovery = 100.49%						
B 249.677†	19466.1	481.08 ug/L	6.602	481.08 ppb	6.602	1.37%
QC value within limits for B 249.677 Recovery = 96.22%						
Ba 233.527†	57764.2	492.93 ug/L	4.737	492.93 ppb	4.737	0.96%
QC value within limits for Ba 233.527 Recovery = 98.59%						
Be 313.107†	1250701.5	491.88 ug/L	1.094	491.88 ppb	1.094	0.22%
QC value within limits for Be 313.107 Recovery = 98.38%						
Ca 317.933Radial†	2283.2	4987.7 ug/L	9.32	4987.7 ppb	9.32	0.19%

QC value within limits for Ca 317.933 Radial Recovery = 99.75%

Cd 226.502†	37440.9	494.89 ug/L	4.494	494.89 ppb	4.494	0.91%
QC value within limits for Cd 226.502 Recovery = 98.98%						
Co 228.616†	22473.9	492.52 ug/L	4.644	492.52 ppb	4.644	0.94%
QC value within limits for Co 228.616 Recovery = 98.50%						
Cr 267.716†	37489.0	490.93 ug/L	3.072	490.93 ppb	3.072	0.63%
QC value within limits for Cr 267.716 Recovery = 98.19%						
Cu 324.752†	157347.5	490.15 ug/L	5.884	490.15 ppb	5.884	1.20%
QC value within limits for Cu 324.752 Recovery = 98.03%						
Fe 238.204 Radial†	342.2	4965.5 ug/L	35.88	4965.5 ppb	35.88	0.72%
QC value within limits for Fe 238.204 Radial Recovery = 99.31%						
K 766.490 Radial†	25442.8	4775.0 ug/L	68.52	4775.0 ppb	68.52	1.43%
QC value within limits for K 766.490 Radial Recovery = 95.50%						
Mg 279.077 IEC†	98.6	5009.0 ug/L	85.09	5009.0 ppb	85.09	1.70%
QC value within limits for Mg 279.077 IEC Recovery = 100.18%						
Mn 257.610†	414350.6	490.60 ug/L	1.097	490.60 ppb	1.097	0.22%
QC value within limits for Mn 257.610 Recovery = 98.12%						
Mo 202.031†	6041.0	494.76 ug/L	2.224	494.76 ppb	2.224	0.45%
QC value within limits for Mo 202.031 Recovery = 98.95%						
Na 589.592 Radial†	25279.8	8675.8 ug/L	145.58	8675.8 ppb	145.58	1.68%
QC value less than the lower limit for Na 589.592 Radial Recovery = 86.76%						
Ni 231.604†	17327.3	492.68 ug/L	5.449	492.68 ppb	5.449	1.11%
QC value within limits for Ni 231.604 Recovery = 98.54%						
P 214.914†	3985.1	2339.5 ug/L	12.63	2339.5 ppb	12.63	0.54%
QC value within limits for P 214.914 Recovery = 93.58%						
Pb 220.353†	3510.4	489.70 ug/L	0.843	489.70 ppb	0.843	0.17%
QC value within limits for Pb 220.353 Recovery = 97.94%						
S 181.975 Axial†	685.3	984.63 ug/L	8.557	984.63 ppb	8.557	0.87%
QC value within limits for S 181.975 Axial Recovery = 98.46%						
Sb 206.836†	1347.9	511.87 ug/L	1.715	511.87 ppb	1.715	0.34%
QC value within limits for Sb 206.836 Recovery = 102.37%						
Se 196.026†	733.3	516.09 ug/L	3.897	516.09 ppb	3.897	0.76%
QC value within limits for Se 196.026 Recovery = 103.22%						
Si 251.611†	74270.8	2480.8 ug/L	30.90	2480.8 ppb	30.90	1.25%
QC value within limits for Si 251.611 Recovery = 99.23%						
Sn 189.927†	2466.4	497.16 ug/L	2.680	497.16 ppb	2.680	0.54%
QC value within limits for Sn 189.927 Recovery = 99.43%						
Sr 421.552†	64198.2	481.36 ug/L	7.420	481.36 ppb	7.420	1.54%
QC value within limits for Sr 421.552 Recovery = 96.27%						
Ti 334.940†	299466.2	497.01 ug/L	0.719	497.01 ppb	0.719	0.14%
QC value within limits for Ti 334.940 Recovery = 99.40%						
Tl 190.801†	1489.7	503.54 ug/L	0.962	503.54 ppb	0.962	0.19%
QC value within limits for Tl 190.801 Recovery = 100.71%						
U 409.014†	14830.8	538.13 ug/L	2.024	538.13 ppb	2.024	0.38%
QC value within limits for U 409.014 Recovery = 107.63%						
V 292.402†	60487.8	502.08 ug/L	4.084	502.08 ppb	4.084	0.81%
QC value within limits for V 292.402 Recovery = 100.42%						
Zn 213.857†	47187.3	490.65 ug/L	5.247	490.65 ppb	5.247	1.07%
QC value within limits for Zn 213.857 Recovery = 98.13%						
SiO2†	74085.4	5267.4 ug/L	28.55	5267.4 ppb	28.55	0.54%
QC value within limits for SiO2 Recovery = 98.50%						

QC Failed. Continue with analysis.

Sequence No.: 63
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 2/19/2010 23:35:46
 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	3953.4	3953.4	112 %			23:37:58
1	Y RADIAL	4542.7	4542.7	113.6 %			23:37:38
1	Al 396.153Radial†	-114.1	11.2	10.825 ug/L	10.825 ppb		23:37:58
1	Ca 317.933Radial†	32.7	-2.0	-4.4350 ug/L	-4.4350 ppb		23:37:58
1	Fe 238.204 Radial†	9.4	-0.7	-10.137 ug/L	-10.137 ppb		23:37:58
1	K 766.490 Radial†	2867.2	-579.0	-108.30 ug/L	-108.30 ppb		23:37:38
1	Mg 279.077 IEC†	-0.4	-3.0	-153.90 ug/L	-153.90 ppb		23:37:58
1	Na 589.592 Radial†	338.7	-3724.3	-1278.1 ug/L	-1278.1 ppb		23:37:38
1	Sr 421.552†	309.3	-1164.8	-8.7339 ug/L	-8.7339 ppb		23:37:38
1	Sc 361.383	798406.5	798406.5	106.27 %			23:38:55
1	Y 371.029	633826.6	633826.6	107.71 %			23:38:55
1	Ag 328.068†	155.2	-180.3	-0.9443 ug/L	-0.9443 ppb		23:38:55
1	As 188.979†	-22.8	-0.7	-0.3420 ug/L	-0.3420 ppb		23:39:15
1	B 249.677†	-333.3	128.3	3.1862 ug/L	3.1862 ppb		23:39:15
1	Ba 233.527†	61.6	-87.1	-0.7377 ug/L	-0.7377 ppb		23:39:15
1	Be 313.107†	-4542.1	81.5	0.0330 ug/L	0.0330 ppb		23:38:55
1	Cd 226.502†	-186.9	19.3	0.2597 ug/L	0.2597 ppb		23:39:15
1	Co 228.616†	-53.2	20.3	0.4441 ug/L	0.4441 ppb		23:39:15
1	Cr 267.716†	84.5	1.7	0.0167 ug/L	0.0167 ppb		23:39:15
1	Cu 324.752†	5880.3	-918.6	-2.8717 ug/L	-2.8717 ppb		23:38:55
1	Mn 257.610†	439.7	-57.5	-0.0628 ug/L	-0.0628 ppb		23:39:15
1	Mo 202.031†	18.5	7.4	0.6068 ug/L	0.6068 ppb		23:39:15
1	Ni 231.604†	94.1	9.4	0.2678 ug/L	0.2678 ppb		23:39:15
1	P 214.914†	199.2	-23.7	-13.881 ug/L	-13.881 ppb		23:39:15
1	Pb 220.353†	-67.9	-84.8	-11.775 ug/L	-11.775 ppb		23:39:15
1	S 181.975 Axial†	39.5	-0.2	-0.3435 ug/L	-0.3435 ppb		23:39:15
1	Sb 206.836†	34.3	-4.0	-1.4615 ug/L	-1.4615 ppb		23:39:15
1	Se 196.026†	-24.3	6.4	4.3366 ug/L	4.3366 ppb		23:39:15
1	Si 251.611†	550.5	21.5	0.7128 ug/L	0.7128 ppb		23:39:15
1	Sn 189.927†	17.7	1.3	0.2582 ug/L	0.2582 ppb		23:39:15
1	Ti 334.940†	-1281.3	274.2	0.4597 ug/L	0.4597 ppb		23:38:55
1	Tl 190.801†	-32.6	1.9	0.6408 ug/L	0.6408 ppb		23:39:15
1	U 409.014†	-2756.1	469.6	17.092 ug/L	17.092 ppb		23:38:55
1	V 292.402†	-1578.2	207.6	1.7396 ug/L	1.7396 ppb		23:38:55
1	Zn 213.857†	628.4	-52.4	-0.5463 ug/L	-0.5463 ppb		23:39:15
1	SiO2†	606.8	78.8	5.5981 ug/L	5.5981 ppb		23:40:11
2	Sc Radial	3981.8	3981.8	113 %			23:38:23
2	Y RADIAL	4541.7	4541.7	113.6 %			23:38:03
2	Al 396.153Radial†	-120.8	5.9	5.7252 ug/L	5.7252 ppb		23:38:23
2	Ca 317.933Radial†	25.5	-8.6	-18.770 ug/L	-18.770 ppb		23:38:23
2	Fe 238.204 Radial†	10.1	-0.2	-2.7758 ug/L	-2.7758 ppb		23:38:23
2	K 766.490 Radial†	2874.4	-591.0	-110.54 ug/L	-110.54 ppb		23:38:03
2	Mg 279.077 IEC†	1.5	-1.3	-65.080 ug/L	-65.080 ppb		23:38:23
2	Na 589.592 Radial†	288.7	-3770.9	-1294.1 ug/L	-1294.1 ppb		23:38:03
2	Sr 421.552†	243.4	-1225.2	-9.1869 ug/L	-9.1869 ppb		23:38:03
2	Sc 361.383	810524.7	810524.7	107.88 %			23:39:20
2	Y 371.029	643694.2	643694.2	109.39 %			23:39:20
2	Ag 328.068†	281.2	-65.7	-0.3473 ug/L	-0.3473 ppb		23:39:20
2	As 188.979†	-25.7	-3.1	-1.4551 ug/L	-1.4551 ppb		23:39:40
2	B 249.677†	-338.9	127.8	3.1725 ug/L	3.1725 ppb		23:39:40
2	Ba 233.527†	37.8	-110.0	-0.9335 ug/L	-0.9335 ppb		23:39:40
2	Be 313.107†	-4572.1	117.6	0.0472 ug/L	0.0472 ppb		23:39:20
2	Cd 226.502†	-199.5	10.3	0.1388 ug/L	0.1388 ppb		23:39:40
2	Co 228.616†	-63.6	11.3	0.2494 ug/L	0.2494 ppb		23:39:40
2	Cr 267.716†	66.8	-15.9	-0.2117 ug/L	-0.2117 ppb		23:39:40
2	Cu 324.752†	5888.6	-993.7	-3.1041 ug/L	-3.1041 ppb		23:39:20
2	Mn 257.610†	439.0	-64.4	-0.0738 ug/L	-0.0738 ppb		23:39:40
2	Mo 202.031†	23.1	11.4	0.9349 ug/L	0.9349 ppb		23:39:40
2	Ni 231.604†	91.1	5.3	0.1503 ug/L	0.1503 ppb		23:39:40

2	P 214.914†	214.2	-12.5	-7.0503 ug/L	-7.0503 ppb	23:39:40
2	Pb 220.353†	-62.8	-79.1	-10.979 ug/L	-10.979 ppb	23:39:40
2	S 181.975 Axial†	41.8	1.4	1.9843 ug/L	1.9843 ppb	23:39:40
2	Sb 206.836†	41.9	2.5	0.9128 ug/L	0.9128 ppb	23:39:40
2	Se 196.026†	-26.9	4.4	2.9654 ug/L	2.9654 ppb	23:39:40
2	Si 251.611†	542.5	6.4	0.2016 ug/L	0.2016 ppb	23:39:40
2	Sn 189.927†	11.0	-5.1	-1.0320 ug/L	-1.0320 ppb	23:39:40
2	Ti 334.940†	-1305.6	269.7	0.4440 ug/L	0.4440 ppb	23:39:20
2	Tl 190.801†	-27.9	6.7	2.2585 ug/L	2.2585 ppb	23:39:40
2	U 409.014†	-2858.9	413.0	15.032 ug/L	15.032 ppb	23:39:20
2	V 292.402†	-1632.8	179.2	1.5083 ug/L	1.5083 ppb	23:39:20
2	Zn 213.857†	632.9	-57.1	-0.5953 ug/L	-0.5953 ppb	23:39:40
2	SiO2†	570.4	36.6	2.5808 ug/L	2.5808 ppb	23:40:16
3	Sc Radial	3971.9	3971.9	112 %		23:38:48
3	Y RADIAL	4496.5	4496.5	112.5 %		23:38:28
3	Al 396.153Radial†	-111.3	14.1	13.753 ug/L	13.753 ppb	23:38:48
3	Ca 317.933Radial†	102.7	60.2	131.46 ug/L	131.46 ppb	23:38:48
3	Fe 238.204 Radial†	10.4	0.1	2.0930 ug/L	2.0930 ppb	23:38:48
3	K 766.490 Radial†	2946.2	-520.6	-97.369 ug/L	-97.369 ppb	23:38:28
3	Mg 279.077 IEC†	1.3	-1.5	-75.337 ug/L	-75.337 ppb	23:38:48
3	Na 589.592 Radial†	283.1	-3775.2	-1295.6 ug/L	-1295.6 ppb	23:38:28
3	Sr 421.552†	195.8	-1267.0	-9.5019 ug/L	-9.5019 ppb	23:38:28
3	Sc 361.383	800230.2	800230.2	106.51 %		23:39:45
3	Y 371.029	635868.1	635868.1	108.06 %		23:39:45
3	Ag 328.068†	176.3	-160.8	-0.8351 ug/L	-0.8351 ppb	23:39:45
3	As 188.979†	-28.4	-6.0	-2.7806 ug/L	-2.7806 ppb	23:40:05
3	B 249.677†	-364.5	99.8	2.4760 ug/L	2.4760 ppb	23:40:05
3	Ba 233.527†	58.4	-90.2	-0.7626 ug/L	-0.7626 ppb	23:40:05
3	Be 313.107†	-4464.3	164.3	0.0654 ug/L	0.0654 ppb	23:39:45
3	Cd 226.502†	-189.7	17.0	0.2271 ug/L	0.2271 ppb	23:40:05
3	Co 228.616†	-59.4	14.5	0.3164 ug/L	0.3164 ppb	23:40:05
3	Cr 267.716†	93.6	10.0	0.1296 ug/L	0.1296 ppb	23:40:05
3	Cu 324.752†	5910.2	-903.2	-2.8204 ug/L	-2.8204 ppb	23:39:45
3	Mn 257.610†	464.4	-35.3	-0.0385 ug/L	-0.0385 ppb	23:40:05
3	Mo 202.031†	6.7	-3.6	-0.2964 ug/L	-0.2964 ppb	23:40:05
3	Ni 231.604†	79.8	-4.2	-0.1205 ug/L	-0.1205 ppb	23:40:05
3	P 214.914†	208.8	-15.1	-8.6674 ug/L	-8.6674 ppb	23:40:05
3	Pb 220.353†	-49.5	-67.3	-9.3390 ug/L	-9.3390 ppb	23:40:05
3	S 181.975 Axial†	35.6	-3.9	-5.6626 ug/L	-5.6626 ppb	23:40:05
3	Sb 206.836†	47.6	8.4	3.0604 ug/L	3.0604 ppb	23:40:05
3	Se 196.026†	-21.6	9.0	6.1066 ug/L	6.1066 ppb	23:40:05
3	Si 251.611†	566.3	35.2	1.1812 ug/L	1.1812 ppb	23:40:05
3	Sn 189.927†	14.9	-1.3	-0.2387 ug/L	-0.2387 ppb	23:40:05
3	Ti 334.940†	-1303.6	256.0	0.4433 ug/L	0.4433 ppb	23:39:45
3	Tl 190.801†	-25.6	8.6	2.8723 ug/L	2.8723 ppb	23:40:05
3	U 409.014†	-2902.5	338.0	12.300 ug/L	12.300 ppb	23:39:45
3	V 292.402†	-1498.1	286.1	2.3604 ug/L	2.3604 ppb	23:39:45
3	Zn 213.857†	642.1	-40.9	-0.4254 ug/L	-0.4254 ppb	23:40:05
3	SiO2†	576.7	49.3	3.5201 ug/L	3.5201 ppb	23:40:21

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	803053.8	106.88 %	0.870			0.81%
Sc Radial	3969.0	112 %	0.4			0.36%
Y 371.029	637796.3	108.38 %	0.885			0.82%
Y RADIAL	4527.0	113.2 %	0.66			0.58%
Ag 328.068†	-135.6	-0.7089 ug/L	0.31791	-0.7089 ppb	0.31791	44.85%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.4	10.101 ug/L	4.0627	10.101 ppb	4.0627	40.22%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.3	-1.5259 ug/L	1.22086	-1.5259 ppb	1.22086	80.01%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	118.6	2.9449 ug/L	0.40612	2.9449 ppb	0.40612	13.79%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-95.8	-0.8113 ug/L	0.10658	-0.8113 ppb	0.10658	13.14%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	121.2	0.0485 ug/L	0.01626	0.0485 ppb	0.01626	33.49%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	16.5	36.085 ug/L	82.9079	36.085 ppb	82.9079	229.76%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd	226.502†	15.5	0.2086 ug/L	0.06252	0.2086 ppb	0.06252	29.98%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	15.4	0.3367 ug/L	0.09895	0.3367 ppb	0.09895	29.39%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	-1.4	-0.0218 ug/L	0.17385	-0.0218 ppb	0.17385	797.72%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-938.5	-2.9321 ug/L	0.15118	-2.9321 ppb	0.15118	5.16%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	-0.3	-3.6065 ug/L	6.15702	-3.6065 ppb	6.15702	170.72%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	-563.6	-105.40 ug/L	7.048	-105.40 ppb	7.048	6.69%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-1.9	-98.105 ug/L	48.5902	-98.105 ppb	48.5902	49.53%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	-52.4	-0.0584 ug/L	0.01807	-0.0584 ppb	0.01807	30.95%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	5.1	0.4151 ug/L	0.63764	0.4151 ppb	0.63764	153.60%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-3756.8	-1289.3 ug/L	9.69	-1289.3 ppb	9.69	0.75%
QC value less than the lower limit for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	3.5	0.0992 ug/L	0.19915	0.0992 ppb	0.19915	200.80%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-17.1	-9.8663 ug/L	3.56983	-9.8663 ppb	3.56983	36.18%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-77.1	-10.697 ug/L	1.2420	-10.697 ppb	1.2420	11.61%
QC value less than the lower limit for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-0.9	-1.3406 ug/L	3.91975	-1.3406 ppb	3.91975	292.38%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	2.3	0.8372 ug/L	2.26188	0.8372 ppb	2.26188	270.16%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	6.6	4.4695 ug/L	1.57479	4.4695 ppb	1.57479	35.23%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	21.0	0.6985 ug/L	0.48996	0.6985 ppb	0.48996	70.14%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	-1.7	-0.3375 ug/L	0.65075	-0.3375 ppb	0.65075	192.81%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-1219.0	-9.1409 ug/L	0.38606	-9.1409 ppb	0.38606	4.22%
QC value less than the lower limit for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	266.6	0.4490 ug/L	0.00928	0.4490 ppb	0.00928	2.07%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	5.7	1.9238 ug/L	1.15279	1.9238 ppb	1.15279	59.92%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	406.8	14.808 ug/L	2.4037	14.808 ppb	2.4037	16.23%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	224.3	1.8694 ug/L	0.44064	1.8694 ppb	0.44064	23.57%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	-50.1	-0.5223 ug/L	0.08741	-0.5223 ppb	0.08741	16.73%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		54.9	3.8996 ug/L	1.54406	3.8996 ppb	1.54406	39.60%
QC value within limits for SiO2 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 74

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 2/20/2010 00:50:38

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3944.0	3944.0	112 %		00:52:49
1	Y RADIAL	4438.9	4438.9	111.0 %		00:52:29
1	Al 396.153Radial†	5532.3	5074.5	4909.7 ug/L	4909.7 ppb	00:52:29
1	Ca 317.933Radial†	2582.5	2284.7	4990.9 ug/L	4990.9 ppb	00:52:49
1	Fe 238.204 Radial†	389.6	340.2	4936.4 ug/L	4936.4 ppb	00:52:49
1	K 766.490 Radial†	31568.7	25165.8	4723.0 ug/L	4723.0 ppb	00:52:29
1	Mg 279.077 IEC†	113.0	98.7	5016.9 ug/L	5016.9 ppb	00:52:49
1	Na 589.592 Radial†	32504.6	25121.9	8621.6 ug/L	8621.6 ppb	00:52:29
1	Sr 421.552†	73140.2	64148.7	480.99 ug/L	480.99 ppb	00:52:29
1	Sc 361.383	811959.5	811959.5	108.07 %		00:53:47
1	Y 371.029	636828.7	636828.7	108.22 %		00:53:47
1	Ag 328.068†	104798.2	96646.1	503.78 ug/L	503.78 ppb	00:53:52
1	As 188.979†	1128.7	1065.1	497.78 ug/L	497.78 ppb	00:54:12
1	B 249.677†	20656.0	19555.5	483.32 ug/L	483.32 ppb	00:53:52
1	Ba 233.527†	62353.9	57552.6	491.13 ug/L	491.13 ppb	00:53:52
1	Be 313.107†	1346567.1	1250369.9	491.75 ug/L	491.75 ppb	00:53:47
1	Cd 226.502†	39920.8	37134.9	490.84 ug/L	490.84 ppb	00:53:52
1	Co 228.616†	24053.9	22328.0	489.31 ug/L	489.31 ppb	00:53:52
1	Cr 267.716†	40496.1	37394.3	489.69 ug/L	489.69 ppb	00:53:52
1	Cu 324.752†	177800.7	158071.5	492.40 ug/L	492.40 ppb	00:53:52
1	Mn 257.610†	447707.0	413803.8	489.95 ug/L	489.95 ppb	00:53:47
1	Mo 202.031†	6498.0	6002.8	491.63 ug/L	491.63 ppb	00:54:12
1	Ni 231.604†	18649.5	17177.8	488.43 ug/L	488.43 ppb	00:53:52
1	P 214.914†	4490.6	3944.1	2314.0 ug/L	2314.0 ppb	00:54:12
1	Pb 220.353†	3795.8	3491.5	487.06 ug/L	487.06 ppb	00:54:12
1	S 181.975 Axial†	772.9	677.8	973.88 ug/L	973.88 ppb	00:54:12
1	Sb 206.836†	1484.3	1337.1	507.82 ug/L	507.82 ppb	00:54:12
1	Se 196.026†	752.6	725.7	510.81 ug/L	510.81 ppb	00:54:12
1	Si 251.611†	80627.4	74110.1	2475.4 ug/L	2475.4 ppb	00:53:52
1	Sn 189.927†	2669.6	2455.0	494.86 ug/L	494.86 ppb	00:54:12
1	Ti 334.940†	322547.6	299941.8	497.80 ug/L	497.80 ppb	00:53:47
1	Tl 190.801†	1563.8	1479.5	500.14 ug/L	500.14 ppb	00:54:12
1	U 409.014†	12935.5	15032.7	545.48 ug/L	545.48 ppb	00:53:52
1	V 292.402†	63562.7	60509.0	502.23 ug/L	502.23 ppb	00:53:52
1	Zn 213.857†	51406.2	46923.8	487.92 ug/L	487.92 ppb	00:53:52
1	SiO2†	80657.4	74142.2	5271.5 ug/L	5271.5 ppb	00:55:20
2	Sc Radial	3927.6	3927.6	111 %		00:53:15
2	Y RADIAL	4468.0	4468.0	111.7 %		00:52:54
2	Al 396.153Radial†	5548.2	5109.5	4943.8 ug/L	4943.8 ppb	00:52:54
2	Ca 317.933Radial†	2595.0	2305.6	5036.6 ug/L	5036.6 ppb	00:53:15
2	Fe 238.204 Radial†	395.0	346.6	5028.3 ug/L	5028.3 ppb	00:53:15
2	K 766.490 Radial†	31868.1	25553.5	4795.8 ug/L	4795.8 ppb	00:52:54
2	Mg 279.077 IEC†	111.6	97.8	4971.7 ug/L	4971.7 ppb	00:53:15
2	Na 589.592 Radial†	32375.2	25127.0	8623.3 ug/L	8623.3 ppb	00:52:54
2	Sr 421.552†	73582.2	64820.4	486.02 ug/L	486.02 ppb	00:52:54
2	Sc 361.383	809313.8	809313.8	107.72 %		00:54:18
2	Y 371.029	635723.4	635723.4	108.03 %		00:54:18
2	Ag 328.068†	103125.7	95410.5	497.39 ug/L	497.39 ppb	00:54:23
2	As 188.979†	1120.0	1060.4	495.65 ug/L	495.65 ppb	00:54:44
2	B 249.677†	20350.8	19334.6	477.83 ug/L	477.83 ppb	00:54:23
2	Ba 233.527†	61426.2	56880.1	485.39 ug/L	485.39 ppb	00:54:23
2	Be 313.107†	1344992.3	1252981.2	492.78 ug/L	492.78 ppb	00:54:18
2	Cd 226.502†	39366.1	36740.7	485.62 ug/L	485.62 ppb	00:54:23
2	Co 228.616†	23749.9	22118.6	484.72 ug/L	484.72 ppb	00:54:23
2	Cr 267.716†	40000.6	37056.8	485.28 ug/L	485.28 ppb	00:54:23
2	Cu 324.752†	174917.0	155932.2	485.74 ug/L	485.74 ppb	00:54:23
2	Mn 257.610†	445784.9	413373.7	489.45 ug/L	489.45 ppb	00:54:18
2	Mo 202.031†	6457.0	5984.4	490.13 ug/L	490.13 ppb	00:54:44
2	Ni 231.604†	18450.3	17049.2	484.77 ug/L	484.77 ppb	00:54:23

2	P 214.914†	4471.7	3940.2	2312.8 ug/L	2312.8 ppb	00:54:44
2	Pb 220.353†	3763.0	3472.5	484.44 ug/L	484.44 ppb	00:54:44
2	S 181.975 Axial†	771.7	679.0	975.58 ug/L	975.58 ppb	00:54:44
2	Sb 206.836†	1461.9	1320.8	501.70 ug/L	501.70 ppb	00:54:44
2	Se 196.026†	744.3	720.2	507.42 ug/L	507.42 ppb	00:54:44
2	Si 251.611†	79390.0	73205.3	2445.1 ug/L	2445.1 ppb	00:54:23
2	Sn 189.927†	2633.2	2429.2	489.67 ug/L	489.67 ppb	00:54:44
2	Ti 334.940†	321699.7	300130.3	498.13 ug/L	498.13 ppb	00:54:18
2	Tl 190.801†	1562.4	1483.0	501.34 ug/L	501.34 ppb	00:54:44
2	U 409.014†	12623.1	14781.8	536.35 ug/L	536.35 ppb	00:54:23
2	V 292.402†	62698.0	59898.5	497.17 ug/L	497.17 ppb	00:54:23
2	Zn 213.857†	50730.3	46451.8	482.98 ug/L	482.98 ppb	00:54:23
2	SiO2†	80308.9	74062.7	5265.9 ug/L	5265.9 ppb	00:55:25
3	Sc Radial	3895.9	3895.9	110 %		00:53:40
3	Y RADIAL	4416.7	4416.7	110.5 %		00:53:20
3	Al 396.153Radial†	5522.9	5127.1	4960.6 ug/L	4960.6 ppb	00:53:20
3	Ca 317.933Radial†	2543.3	2277.7	4975.6 ug/L	4975.6 ppb	00:53:40
3	Fe 238.204 Radial†	388.4	343.4	4982.9 ug/L	4982.9 ppb	00:53:40
3	K 766.490 Radial†	31698.2	25632.6	4810.7 ug/L	4810.7 ppb	00:53:20
3	Mg 279.077 IEC†	112.7	99.7	5065.5 ug/L	5065.5 ppb	00:53:40
3	Na 589.592 Radial†	32317.8	25311.9	8686.8 ug/L	8686.8 ppb	00:53:20
3	Sr 421.552†	73247.3	65055.1	487.78 ug/L	487.78 ppb	00:53:20
3	Sc 361.383	804662.9	804662.9	107.10 %		00:54:49
3	Y 371.029	632179.5	632179.5	107.43 %		00:54:49
3	Ag 328.068†	105453.9	98137.8	511.56 ug/L	511.56 ppb	00:54:55
3	As 188.979†	1130.4	1076.1	502.90 ug/L	502.90 ppb	00:55:15
3	B 249.677†	21082.0	20126.6	497.46 ug/L	497.46 ppb	00:54:55
3	Ba 233.527†	62954.5	58636.7	500.38 ug/L	500.38 ppb	00:54:55
3	Be 313.107†	1338722.9	1254344.3	493.31 ug/L	493.31 ppb	00:54:49
3	Cd 226.502†	40247.3	37774.8	499.30 ug/L	499.30 ppb	00:54:55
3	Co 228.616†	24279.1	22740.1	498.35 ug/L	498.35 ppb	00:54:55
3	Cr 267.716†	40752.8	37973.8	497.28 ug/L	497.28 ppb	00:54:55
3	Cu 324.752†	179765.1	161397.5	502.76 ug/L	502.76 ppb	00:54:55
3	Mn 257.610†	444598.3	414657.7	490.96 ug/L	490.96 ppb	00:54:49
3	Mo 202.031†	6497.1	6056.5	496.03 ug/L	496.03 ppb	00:55:15
3	Ni 231.604†	18877.9	17547.5	498.94 ug/L	498.94 ppb	00:54:55
3	P 214.914†	4483.4	3975.1	2330.9 ug/L	2330.9 ppb	00:55:15
3	Pb 220.353†	3773.0	3502.0	488.54 ug/L	488.54 ppb	00:55:15
3	S 181.975 Axial†	783.6	694.3	997.59 ug/L	997.59 ppb	00:55:15
3	Sb 206.836†	1496.8	1361.2	516.82 ug/L	516.82 ppb	00:55:15
3	Se 196.026†	754.3	733.6	516.36 ug/L	516.36 ppb	00:55:15
3	Si 251.611†	81493.3	75595.2	2525.1 ug/L	2525.1 ppb	00:54:55
3	Sn 189.927†	2655.9	2464.6	496.79 ug/L	496.79 ppb	00:55:15
3	Ti 334.940†	319679.0	299969.7	497.84 ug/L	497.84 ppb	00:54:49
3	Tl 190.801†	1562.7	1491.7	504.16 ug/L	504.16 ppb	00:55:15
3	U 409.014†	12922.2	15128.8	548.96 ug/L	548.96 ppb	00:54:55
3	V 292.402†	64190.0	61628.0	511.45 ug/L	511.45 ppb	00:54:55
3	Zn 213.857†	51950.5	47863.3	497.69 ug/L	497.69 ppb	00:54:55
3	SiO2†	79423.9	73667.3	5237.5 ug/L	5237.5 ppb	00:55:30

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	808645.4	107.63 %	0.492			0.46%
Sc Radial	3922.5	111 %	0.7			0.62%
Y 371.029	634910.5	107.89 %	0.413			0.38%
Y RADIAL	4441.2	111.1 %	0.64			0.58%
Ag 328.068†	96731.5	504.25 ug/L	7.094	504.25 ppb	7.094	1.41%
QC value within limits for Ag 328.068 Recovery = 100.85%						
Al 396.153Radial†	5103.7	4938.1 ug/L	25.97	4938.1 ppb	25.97	0.53%
QC value within limits for Al 396.153Radial Recovery = 98.76%						
As 188.979†	1067.2	498.78 ug/L	3.724	498.78 ppb	3.724	0.75%
QC value within limits for As 188.979 Recovery = 99.76%						
B 249.677†	19672.2	486.21 ug/L	10.129	486.21 ppb	10.129	2.08%
QC value within limits for B 249.677 Recovery = 97.24%						
Ba 233.527†	57689.8	492.30 ug/L	7.559	492.30 ppb	7.559	1.54%
QC value within limits for Ba 233.527 Recovery = 98.46%						
Be 313.107†	1252565.1	492.61 ug/L	0.793	492.61 ppb	0.793	0.16%
QC value within limits for Be 313.107 Recovery = 98.52%						
Ca 317.933Radial†	2289.3	5001.0 ug/L	31.72	5001.0 ppb	31.72	0.63%

QC value within limits for Ca 317.933 Radial Recovery = 100.02%

Cd 226.502†	37216.8	491.92 ug/L	6.907	491.92 ppb	6.907	1.40%
QC value within limits for Cd 226.502 Recovery = 98.38%						
Co 228.616†	22395.6	490.79 ug/L	6.937	490.79 ppb	6.937	1.41%
QC value within limits for Co 228.616 Recovery = 98.16%						
Cr 267.716†	37475.0	490.75 ug/L	6.068	490.75 ppb	6.068	1.24%
QC value within limits for Cr 267.716 Recovery = 98.15%						
Cu 324.752†	158467.1	493.63 ug/L	8.575	493.63 ppb	8.575	1.74%
QC value within limits for Cu 324.752 Recovery = 98.73%						
Fe 238.204 Radial†	343.4	4982.5 ug/L	45.96	4982.5 ppb	45.96	0.92%
QC value within limits for Fe 238.204 Radial Recovery = 99.65%						
K 766.490 Radial†	25450.6	4776.5 ug/L	46.93	4776.5 ppb	46.93	0.98%
QC value within limits for K 766.490 Radial Recovery = 95.53%						
Mg 279.077 IEC†	98.7	5018.1 ug/L	46.89	5018.1 ppb	46.89	0.93%
QC value within limits for Mg 279.077 IEC Recovery = 100.36%						
Mn 257.610†	413945.1	490.12 ug/L	0.770	490.12 ppb	0.770	0.16%
QC value within limits for Mn 257.610 Recovery = 98.02%						
Mo 202.031†	6014.6	492.60 ug/L	3.064	492.60 ppb	3.064	0.62%
QC value within limits for Mo 202.031 Recovery = 98.52%						
Na 589.592 Radial†	25187.0	8643.9 ug/L	37.15	8643.9 ppb	37.15	0.43%
QC value less than the lower limit for Na 589.592 Radial Recovery = 86.44%						
Ni 231.604†	17258.2	490.71 ug/L	7.356	490.71 ppb	7.356	1.50%
QC value within limits for Ni 231.604 Recovery = 98.14%						
P 214.914†	3953.1	2319.3 ug/L	10.10	2319.3 ppb	10.10	0.44%
QC value within limits for P 214.914 Recovery = 92.77%						
Pb 220.353†	3488.7	486.68 ug/L	2.077	486.68 ppb	2.077	0.43%
QC value within limits for Pb 220.353 Recovery = 97.34%						
S 181.975 Axial†	683.7	982.35 ug/L	13.226	982.35 ppb	13.226	1.35%
QC value within limits for S 181.975 Axial Recovery = 98.24%						
Sb 206.836†	1339.7	508.78 ug/L	7.604	508.78 ppb	7.604	1.49%
QC value within limits for Sb 206.836 Recovery = 101.76%						
Se 196.026†	726.5	511.53 ug/L	4.515	511.53 ppb	4.515	0.88%
QC value within limits for Se 196.026 Recovery = 102.31%						
Si 251.611†	74303.5	2481.9 ug/L	40.37	2481.9 ppb	40.37	1.63%
QC value within limits for Si 251.611 Recovery = 99.28%						
Sn 189.927†	2449.6	493.77 ug/L	3.683	493.77 ppb	3.683	0.75%
QC value within limits for Sn 189.927 Recovery = 98.75%						
Sr 421.552†	64674.7	484.93 ug/L	3.527	484.93 ppb	3.527	0.73%
QC value within limits for Sr 421.552 Recovery = 96.99%						
Ti 334.940†	300013.9	497.92 ug/L	0.180	497.92 ppb	0.180	0.04%
QC value within limits for Ti 334.940 Recovery = 99.58%						
Tl 190.801†	1484.7	501.88 ug/L	2.065	501.88 ppb	2.065	0.41%
QC value within limits for Tl 190.801 Recovery = 100.38%						
U 409.014†	14981.1	543.60 ug/L	6.513	543.60 ppb	6.513	1.20%
QC value within limits for U 409.014 Recovery = 108.72%						
V 292.402†	60678.5	503.62 ug/L	7.239	503.62 ppb	7.239	1.44%
QC value within limits for V 292.402 Recovery = 100.72%						
Zn 213.857†	47079.6	489.53 ug/L	7.485	489.53 ppb	7.485	1.53%
QC value within limits for Zn 213.857 Recovery = 97.91%						
SiO2†	73957.4	5258.3 ug/L	18.21	5258.3 ppb	18.21	0.35%
QC value within limits for SiO2 Recovery = 98.33%						

QC Failed. Continue with analysis.

Sequence No.: 75

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/20/2010 00:57:40

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3940.4	3940.4	111 %		00:59:52
1	Y RADIAL	4441.8	4441.8	111.1 %		00:59:32
1	Al 396.153Radial†	-107.8	16.4	15.960 ug/L	15.960 ppb	00:59:52
1	Ca 317.933Radial†	37.6	2.5	5.4426 ug/L	5.4426 ppb	00:59:52
1	Fe 238.204 Radial†	9.5	-0.6	-8.7852 ug/L	-8.7852 ppb	00:59:52
1	K 766.490 Radial†	2863.2	-574.2	-107.36 ug/L	-107.36 ppb	00:59:32
1	Mg 279.077 IEC†	3.2	0.2	10.699 ug/L	10.699 ppb	00:59:52
1	Na 589.592 Radial†	10.8	-4017.6	-1378.8 ug/L	-1378.8 ppb	00:59:32
1	Sr 421.552†	374.1	-1105.6	-8.2907 ug/L	-8.2907 ppb	00:59:32
1	Sc 361.383	794304.1	794304.1	105.72 %		01:00:49
1	Y 371.029	631341.2	631341.2	107.29 %		01:00:49
1	Ag 328.068†	257.3	-83.0	-0.4368 ug/L	-0.4368 ppb	01:00:49
1	As 188.979†	-29.0	-6.7	-3.1172 ug/L	-3.1172 ppb	01:01:09
1	B 249.677†	-244.1	211.0	5.2399 ug/L	5.2399 ppb	01:01:09
1	Ba 233.527†	54.0	-93.9	-0.7963 ug/L	-0.7963 ppb	01:01:09
1	Be 313.107†	-4535.6	65.6	0.0267 ug/L	0.0267 ppb	01:00:49
1	Cd 226.502†	-187.4	17.9	0.2400 ug/L	0.2400 ppb	01:01:09
1	Co 228.616†	-56.9	16.5	0.3611 ug/L	0.3611 ppb	01:01:09
1	Cr 267.716†	93.7	10.8	0.1373 ug/L	0.1373 ppb	01:01:09
1	Cu 324.752†	5908.5	-863.4	-2.6973 ug/L	-2.6973 ppb	01:00:49
1	Mn 257.610†	450.5	-45.2	-0.0548 ug/L	-0.0548 ppb	01:01:09
1	Mo 202.031†	15.9	5.1	0.4180 ug/L	0.4180 ppb	01:01:09
1	Ni 231.604†	84.6	0.8	0.0239 ug/L	0.0239 ppb	01:01:09
1	P 214.914†	204.6	-17.6	-10.215 ug/L	-10.215 ppb	01:01:09
1	Pb 220.353†	-56.1	-73.9	-10.258 ug/L	-10.258 ppb	01:01:09
1	S 181.975 Axial†	40.9	1.3	1.8207 ug/L	1.8207 ppb	01:01:09
1	Sb 206.836†	36.1	-2.2	-0.8165 ug/L	-0.8165 ppb	01:01:09
1	Se 196.026†	-25.6	5.1	3.4146 ug/L	3.4146 ppb	01:01:09
1	Si 251.611†	530.6	5.4	0.1743 ug/L	0.1743 ppb	01:01:09
1	Sn 189.927†	13.1	-3.0	-0.5929 ug/L	-0.5929 ppb	01:01:09
1	Ti 334.940†	-1290.4	259.3	0.4247 ug/L	0.4247 ppb	01:00:49
1	Tl 190.801†	-23.5	10.3	3.4545 ug/L	3.4545 ppb	01:01:09
1	U 409.014†	-2866.9	351.3	12.786 ug/L	12.786 ppb	01:00:49
1	V 292.402†	-1589.2	189.5	1.5832 ug/L	1.5832 ppb	01:00:49
1	Zn 213.857†	621.6	-55.8	-0.5807 ug/L	-0.5807 ppb	01:01:09
1	SiO2†	552.4	30.3	2.1499 ug/L	2.1499 ppb	01:02:05
2	Sc Radial	3953.9	3953.9	112 %		01:00:17
2	Y RADIAL	4501.1	4501.1	112.6 %		00:59:57
2	Al 396.153Radial†	-110.8	14.1	13.677 ug/L	13.677 ppb	01:00:17
2	Ca 317.933Radial†	32.6	-2.1	-4.6232 ug/L	-4.6232 ppb	01:00:17
2	Fe 238.204 Radial†	7.8	-2.2	-31.438 ug/L	-31.438 ppb	01:00:17
2	K 766.490 Radial†	2874.0	-573.3	-107.20 ug/L	-107.20 ppb	00:59:57
2	Mg 279.077 IEC†	1.0	-1.8	-90.217 ug/L	-90.217 ppb	01:00:17
2	Na 589.592 Radial†	33.2	-3997.6	-1371.9 ug/L	-1371.9 ppb	00:59:57
2	Sr 421.552†	241.6	-1225.3	-9.1877 ug/L	-9.1877 ppb	00:59:57
2	Sc 361.383	796509.9	796509.9	106.01 %		01:01:14
2	Y 371.029	634263.4	634263.4	107.78 %		01:01:14
2	Ag 328.068†	241.3	-98.7	-0.5289 ug/L	-0.5289 ppb	01:01:14
2	As 188.979†	-9.7	11.5	5.3297 ug/L	5.3297 ppb	01:01:34
2	B 249.677†	-297.4	161.5	4.0124 ug/L	4.0124 ppb	01:01:34
2	Ba 233.527†	74.8	-74.5	-0.6324 ug/L	-0.6324 ppb	01:01:34
2	Be 313.107†	-4480.5	129.4	0.0516 ug/L	0.0516 ppb	01:01:14
2	Cd 226.502†	-182.1	23.4	0.3154 ug/L	0.3154 ppb	01:01:34
2	Co 228.616†	-49.9	23.3	0.5098 ug/L	0.5098 ppb	01:01:34
2	Cr 267.716†	76.5	-5.6	-0.0808 ug/L	-0.0808 ppb	01:01:34
2	Cu 324.752†	5938.8	-850.3	-2.6594 ug/L	-2.6594 ppb	01:01:14
2	Mn 257.610†	451.9	-45.0	-0.0527 ug/L	-0.0527 ppb	01:01:34
2	Mo 202.031†	15.6	4.7	0.3861 ug/L	0.3861 ppb	01:01:34
2	Ni 231.604†	99.0	14.3	0.4058 ug/L	0.4058 ppb	01:01:34

2	P 214.914†	224.4	0.6	0.9306 ug/L	0.9306 ppb	01:01:34
2	Pb 220.353†	-52.8	-70.7	-9.8162 ug/L	-9.8162 ppb	01:01:34
2	S 181.975 Axial†	43.2	3.3	4.7752 ug/L	4.7752 ppb	01:01:34
2	Sb 206.836†	47.2	8.2	3.0217 ug/L	3.0217 ppb	01:01:34
2	Se 196.026†	-20.6	9.9	6.5799 ug/L	6.5799 ppb	01:01:34
2	Si 251.611†	557.5	29.3	0.9775 ug/L	0.9775 ppb	01:01:34
2	Sn 189.927†	19.6	3.1	0.6284 ug/L	0.6284 ppb	01:01:34
2	Ti 334.940†	-1342.3	213.8	0.3549 ug/L	0.3549 ppb	01:01:14
2	Tl 190.801†	-32.0	2.3	0.7856 ug/L	0.7856 ppb	01:01:34
2	U 409.014†	-2786.5	434.7	15.825 ug/L	15.825 ppb	01:01:14
2	V 292.402†	-1625.1	159.8	1.3469 ug/L	1.3469 ppb	01:01:14
2	Zn 213.857†	633.0	-46.7	-0.4846 ug/L	-0.4846 ppb	01:01:34
2	SiO2†	556.2	32.4	2.3003 ug/L	2.3003 ppb	01:02:10
3	Sc Radial	3921.0	3921.0	111 %		01:00:42
3	Y RADIAL	4506.3	4506.3	112.7 %		01:00:22
3	Al 396.153Radial†	-116.8	7.8	7.6164 ug/L	7.6164 ppb	01:00:42
3	Ca 317.933Radial†	34.1	-0.5	-1.0344 ug/L	-1.0344 ppb	01:00:42
3	Fe 238.204 Radial†	9.2	-0.9	-12.472 ug/L	-12.472 ppb	01:00:42
3	K 766.490 Radial†	2822.7	-598.1	-111.86 ug/L	-111.86 ppb	01:00:22
3	Mg 279.077 IEC†	1.4	-1.3	-68.478 ug/L	-68.478 ppb	01:00:42
3	Na 589.592 Radial†	148.5	-3893.4	-1336.2 ug/L	-1336.2 ppb	01:00:22
3	Sr 421.552†	604.0	-896.6	-6.7233 ug/L	-6.7233 ppb	01:00:22
3	Sc 361.383	796303.9	796303.9	105.99 %		01:01:39
3	Y 371.029	633570.9	633570.9	107.67 %		01:01:39
3	Ag 328.068†	329.4	-15.5	-0.0927 ug/L	-0.0927 ppb	01:01:39
3	As 188.979†	-22.5	-0.6	-0.2572 ug/L	-0.2572 ppb	01:01:59
3	B 249.677†	-296.7	162.0	4.0247 ug/L	4.0247 ppb	01:01:59
3	Ba 233.527†	61.9	-86.7	-0.7340 ug/L	-0.7340 ppb	01:01:59
3	Be 313.107†	-4641.4	-23.4	-0.0083 ug/L	-0.0083 ppb	01:01:39
3	Cd 226.502†	-189.7	16.2	0.2191 ug/L	0.2191 ppb	01:01:59
3	Co 228.616†	-69.0	5.2	0.1138 ug/L	0.1138 ppb	01:01:59
3	Cr 267.716†	63.0	-18.4	-0.2465 ug/L	-0.2465 ppb	01:01:59
3	Cu 324.752†	5988.7	-801.8	-2.5091 ug/L	-2.5091 ppb	01:01:39
3	Mn 257.610†	451.5	-45.3	-0.0521 ug/L	-0.0521 ppb	01:01:59
3	Mo 202.031†	12.8	2.1	0.1741 ug/L	0.1741 ppb	01:01:59
3	Ni 231.604†	96.8	12.2	0.3458 ug/L	0.3458 ppb	01:01:59
3	P 214.914†	204.9	-17.8	-10.387 ug/L	-10.387 ppb	01:01:59
3	Pb 220.353†	-36.6	-55.4	-7.6872 ug/L	-7.6872 ppb	01:01:59
3	S 181.975 Axial†	46.1	6.1	8.7213 ug/L	8.7213 ppb	01:01:59
3	Sb 206.836†	36.4	-2.0	-0.7399 ug/L	-0.7399 ppb	01:01:59
3	Se 196.026†	-25.7	5.0	3.3761 ug/L	3.3761 ppb	01:01:59
3	Si 251.611†	541.8	14.7	0.4889 ug/L	0.4889 ppb	01:01:59
3	Sn 189.927†	12.8	-3.3	-0.6541 ug/L	-0.6541 ppb	01:01:59
3	Ti 334.940†	-1311.6	242.4	0.3995 ug/L	0.3995 ppb	01:01:39
3	Tl 190.801†	-28.2	5.9	1.9919 ug/L	1.9919 ppb	01:01:59
3	U 409.014†	-2683.7	531.0	19.329 ug/L	19.329 ppb	01:01:39
3	V 292.402†	-1560.1	220.8	1.8476 ug/L	1.8476 ppb	01:01:39
3	Zn 213.857†	652.8	-27.9	-0.2894 ug/L	-0.2894 ppb	01:01:59
3	SiO2†	549.5	26.2	1.8650 ug/L	1.8650 ppb	01:02:15

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	795705.9	105.91 %	0.162			0.15%
Sc Radial	3938.5	111 %	0.5			0.42%
Y 371.029	633058.5	107.58 %	0.259			0.24%
Y RADIAL	4483.0	112.1 %	0.90			0.80%
Ag 328.068†	-65.7	-0.3528 ug/L	0.22989	-0.3528 ppb	0.22989	65.17%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	12.8	12.418 ug/L	4.3119	12.418 ppb	4.3119	34.72%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	1.4	0.6518 ug/L	4.29617	0.6518 ppb	4.29617	659.15%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	178.2	4.4257 ug/L	0.70516	4.4257 ppb	0.70516	15.93%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-85.0	-0.7209 ug/L	0.08275	-0.7209 ppb	0.08275	11.48%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	57.2	0.0233 ug/L	0.03007	0.0233 ppb	0.03007	128.80%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.0	-0.0717 ug/L	5.10150	-0.0717 ppb	5.10150	>999.9%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated

Cd 226.502†	19.1	0.2582 ug/L	0.05066	0.2582 ppb	0.05066	19.62%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	15.0	0.3283 ug/L	0.20005	0.3283 ppb	0.20005	60.94%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-4.4	-0.0633 ug/L	0.19252	-0.0633 ppb	0.19252	304.08%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-838.5	-2.6219 ug/L	0.09951	-2.6219 ppb	0.09951	3.80%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-1.2	-17.565 ug/L	12.1546	-17.565 ppb	12.1546	69.20%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-581.9	-108.81 ug/L	2.646	-108.81 ppb	2.646	2.43%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.0	-49.332 ug/L	53.1122	-49.332 ppb	53.1122	107.66%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-45.2	-0.0532 ug/L	0.00145	-0.0532 ppb	0.00145	2.73%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	4.0	0.3261 ug/L	0.13258	0.3261 ppb	0.13258	40.66%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-3969.6	-1362.3 ug/L	22.89	-1362.3 ppb	22.89	1.68%
QC value less than the lower limit for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	9.1	0.2585 ug/L	0.20535	0.2585 ppb	0.20535	79.44%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-11.6	-6.5570 ug/L	6.48502	-6.5570 ppb	6.48502	98.90%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-66.7	-9.2539 ug/L	1.37472	-9.2539 ppb	1.37472	14.86%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	3.6	5.1057 ug/L	3.46214	5.1057 ppb	3.46214	67.81%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	1.3	0.4884 ug/L	2.19422	0.4884 ppb	2.19422	449.24%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	6.7	4.4569 ug/L	1.83868	4.4569 ppb	1.83868	41.25%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	16.5	0.5469 ug/L	0.40474	0.5469 ppb	0.40474	74.01%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	-1.0	-0.2062 ug/L	0.72344	-0.2062 ppb	0.72344	350.89%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-1075.8	-8.0673 ug/L	1.24730	-8.0673 ppb	1.24730	15.46%
QC value less than the lower limit for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	238.5	0.3930 ug/L	0.03539	0.3930 ppb	0.03539	9.00%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	6.2	2.0773 ug/L	1.33647	2.0773 ppb	1.33647	64.34%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	439.0	15.980 ug/L	3.2742	15.980 ppb	3.2742	20.49%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	190.0	1.5925 ug/L	0.25048	1.5925 ppb	0.25048	15.73%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-43.5	-0.4516 ug/L	0.14846	-0.4516 ppb	0.14846	32.88%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	29.7	2.1051 ug/L	0.22108	2.1051 ppb	0.22108	10.50%
QC value within limits for SiO2 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 81
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 2/20/2010 01:38:37
 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	3925.4	3925.4	111 %		01:40:49
1	Y RADIAL	4386.1	4386.1	109.7 %		01:40:29
1	Al 396.153Radial†	5468.9	5040.8	4877.0 ug/L	4877.0 ppb	01:40:29
1	Ca 317.933Radial†	2558.6	2274.1	4967.8 ug/L	4967.8 ppb	01:40:49
1	Fe 238.204 Radial†	383.7	336.6	4883.5 ug/L	4883.5 ppb	01:40:49
1	K 766.490 Radial†	31489.6	25228.5	4734.9 ug/L	4734.9 ppb	01:40:29
1	Mg 279.077 IEC†	111.8	98.1	4983.8 ug/L	4983.8 ppb	01:40:49
1	Na 589.592 Radial†	31090.3	23985.5	8231.6 ug/L	8231.6 ppb	01:40:29
1	Sr 421.552†	71623.8	63092.8	473.07 ug/L	473.07 ppb	01:40:29
1	Sc 361.383	810022.9	810022.9	107.81 %		01:41:46
1	Y 371.029	635882.4	635882.4	108.06 %		01:41:46
1	Ag 328.068†	104327.7	96441.6	502.71 ug/L	502.71 ppb	01:41:52
1	As 188.979†	1130.6	1069.3	499.62 ug/L	499.62 ppb	01:42:12
1	B 249.677†	20670.3	19614.4	484.78 ug/L	484.78 ppb	01:41:52
1	Ba 233.527†	62342.9	57680.4	492.21 ug/L	492.21 ppb	01:41:52
1	Be 313.107†	1340337.9	1247570.9	490.63 ug/L	490.63 ppb	01:41:46
1	Cd 226.502†	40020.9	37316.1	493.24 ug/L	493.24 ppb	01:41:52
1	Co 228.616†	24106.4	22430.0	491.57 ug/L	491.57 ppb	01:41:52
1	Cr 267.716†	40439.7	37431.6	490.17 ug/L	490.17 ppb	01:41:52
1	Cu 324.752†	177200.5	157908.2	491.89 ug/L	491.89 ppb	01:41:52
1	Mn 257.610†	446040.4	413248.4	489.29 ug/L	489.29 ppb	01:41:46
1	Mo 202.031†	6477.1	5997.8	491.22 ug/L	491.22 ppb	01:42:12
1	Ni 231.604†	18749.5	17311.7	492.24 ug/L	492.24 ppb	01:41:52
1	P 214.914†	4478.7	3943.1	2313.5 ug/L	2313.5 ppb	01:42:12
1	Pb 220.353†	3769.5	3475.5	484.83 ug/L	484.83 ppb	01:42:12
1	S 181.975 Axial†	762.5	669.8	962.42 ug/L	962.42 ppb	01:42:12
1	Sb 206.836†	1470.8	1327.9	504.49 ug/L	504.49 ppb	01:42:12
1	Se 196.026†	747.0	722.2	508.24 ug/L	508.24 ppb	01:42:12
1	Si 251.611†	80529.9	74198.1	2478.4 ug/L	2478.4 ppb	01:41:52
1	Sn 189.927†	2663.7	2455.3	494.93 ug/L	494.93 ppb	01:42:12
1	Ti 334.940†	313947.6	292678.4	485.74 ug/L	485.74 ppb	01:41:52
1	Tl 190.801†	1560.1	1479.6	500.05 ug/L	500.05 ppb	01:42:12
1	U 409.014†	12628.0	14776.1	536.15 ug/L	536.15 ppb	01:41:52
1	V 292.402†	63433.5	60529.7	502.39 ug/L	502.39 ppb	01:41:52
1	Zn 213.857†	51412.1	47042.9	489.15 ug/L	489.15 ppb	01:41:52
1	SiO2†	80521.1	74194.2	5275.2 ug/L	5275.2 ppb	01:43:19
2	Sc Radial	3899.1	3899.1	110 %		01:41:14
2	Y RADIAL	4389.3	4389.3	109.8 %		01:40:54
2	Al 396.153Radial†	5530.7	5130.2	4963.8 ug/L	4963.8 ppb	01:40:54
2	Ca 317.933Radial†	2546.2	2278.4	4977.2 ug/L	4977.2 ppb	01:41:14
2	Fe 238.204 Radial†	384.0	339.2	4921.6 ug/L	4921.6 ppb	01:41:14
2	K 766.490 Radial†	31548.3	25473.4	4780.9 ug/L	4780.9 ppb	01:40:54
2	Mg 279.077 IEC†	112.4	99.3	5044.2 ug/L	5044.2 ppb	01:41:14
2	Na 589.592 Radial†	31330.1	24392.3	8371.2 ug/L	8371.2 ppb	01:40:54
2	Sr 421.552†	71773.8	63664.9	477.36 ug/L	477.36 ppb	01:40:54
2	Sc 361.383	809317.1	809317.1	107.72 %		01:42:17
2	Y 371.029	635798.4	635798.4	108.04 %		01:42:17
2	Ag 328.068†	103452.3	95713.4	498.94 ug/L	498.94 ppb	01:42:23
2	As 188.979†	1116.8	1057.5	494.12 ug/L	494.12 ppb	01:42:43
2	B 249.677†	20481.1	19455.5	480.84 ug/L	480.84 ppb	01:42:23
2	Ba 233.527†	61858.9	57281.5	488.81 ug/L	488.81 ppb	01:42:23
2	Be 313.107†	1346092.6	1253997.6	493.14 ug/L	493.14 ppb	01:42:17
2	Cd 226.502†	39674.2	37026.6	489.41 ug/L	489.41 ppb	01:42:23
2	Co 228.616†	23914.6	22271.3	488.10 ug/L	488.10 ppb	01:42:23
2	Cr 267.716†	40193.4	37235.6	487.61 ug/L	487.61 ppb	01:42:23
2	Cu 324.752†	175638.2	156601.2	487.82 ug/L	487.82 ppb	01:42:23
2	Mn 257.610†	446727.4	414247.0	490.47 ug/L	490.47 ppb	01:42:17
2	Mo 202.031†	6489.2	6014.3	492.57 ug/L	492.57 ppb	01:42:43
2	Ni 231.604†	18571.5	17161.7	487.97 ug/L	487.97 ppb	01:42:23

2	P 214.914†	4475.5	3943.7	2314.7 ug/L	2314.7 ppb	01:42:43
2	Pb 220.353†	3762.0	3471.5	484.31 ug/L	484.31 ppb	01:42:43
2	S 181.975 Axial†	768.1	675.7	970.83 ug/L	970.83 ppb	01:42:43
2	Sb 206.836†	1468.7	1327.1	504.17 ug/L	504.17 ppb	01:42:43
2	Se 196.026†	764.5	739.0	519.77 ug/L	519.77 ppb	01:42:43
2	Si 251.611†	79726.4	73517.3	2455.6 ug/L	2455.6 ppb	01:42:23
2	Sn 189.927†	2642.6	2437.9	491.42 ug/L	491.42 ppb	01:42:43
2	Ti 334.940†	311332.9	290505.1	482.13 ug/L	482.13 ppb	01:42:23
2	Tl 190.801†	1564.2	1484.7	501.76 ug/L	501.76 ppb	01:42:43
2	U 409.014†	12863.1	15004.6	544.46 ug/L	544.46 ppb	01:42:23
2	V 292.402†	63037.3	60213.3	499.83 ug/L	499.83 ppb	01:42:23
2	Zn 213.857†	51083.5	46779.4	486.41 ug/L	486.41 ppb	01:42:23
2	SiO2†	79519.4	73329.4	5213.6 ug/L	5213.6 ppb	01:43:24
3	Sc Radial	3863.3	3863.3	109 %		01:41:39
3	Y RADIAL	4427.2	4427.2	110.7 %		01:41:19
3	Al 396.153Radial†	5551.8	5196.0	5027.6 ug/L	5027.6 ppb	01:41:19
3	Ca 317.933Radial†	2533.4	2288.1	4998.4 ug/L	4998.4 ppb	01:41:39
3	Fe 238.204 Radial†	376.7	335.7	4871.2 ug/L	4871.2 ppb	01:41:39
3	K 766.490 Radial†	31569.0	25757.5	4834.2 ug/L	4834.2 ppb	01:41:19
3	Mg 279.077 IEC†	112.1	100.0	5081.0 ug/L	5081.0 ppb	01:41:39
3	Na 589.592 Radial†	31302.0	24629.9	8452.7 ug/L	8452.7 ppb	01:41:19
3	Sr 421.552†	72556.2	64984.2	487.25 ug/L	487.25 ppb	01:41:19
3	Sc 361.383	805428.8	805428.8	107.20 %		01:42:48
3	Y 371.029	632831.0	632831.0	107.54 %		01:42:48
3	Ag 328.068†	104456.5	97113.7	506.20 ug/L	506.20 ppb	01:42:54
3	As 188.979†	1129.7	1074.5	502.06 ug/L	502.06 ppb	01:43:14
3	B 249.677†	20765.4	19812.6	489.70 ug/L	489.70 ppb	01:42:54
3	Ba 233.527†	62462.5	58121.8	495.98 ug/L	495.98 ppb	01:42:54
3	Be 313.107†	1341675.4	1255909.9	493.91 ug/L	493.91 ppb	01:42:48
3	Cd 226.502†	40061.2	37565.4	496.54 ug/L	496.54 ppb	01:42:54
3	Co 228.616†	24102.9	22554.2	494.30 ug/L	494.30 ppb	01:42:54
3	Cr 267.716†	40476.1	37679.4	493.41 ug/L	493.41 ppb	01:42:54
3	Cu 324.752†	176925.7	158589.3	494.01 ug/L	494.01 ppb	01:42:54
3	Mn 257.610†	446572.6	416104.7	492.66 ug/L	492.66 ppb	01:42:48
3	Mo 202.031†	6495.4	6049.1	495.41 ug/L	495.41 ppb	01:43:14
3	Ni 231.604†	18757.5	17418.4	495.27 ug/L	495.27 ppb	01:42:54
3	P 214.914†	4508.2	3994.2	2344.5 ug/L	2344.5 ppb	01:43:14
3	Pb 220.353†	3791.3	3515.8	490.48 ug/L	490.48 ppb	01:43:14
3	S 181.975 Axial†	766.1	677.3	973.15 ug/L	973.15 ppb	01:43:14
3	Sb 206.836†	1473.3	1338.0	508.33 ug/L	508.33 ppb	01:43:14
3	Se 196.026†	761.0	739.2	519.74 ug/L	519.74 ppb	01:43:14
3	Si 251.611†	80497.6	74594.0	2491.6 ug/L	2491.6 ppb	01:42:54
3	Sn 189.927†	2672.5	2477.6	499.43 ug/L	499.43 ppb	01:43:14
3	Ti 334.940†	314085.5	294468.1	488.71 ug/L	488.71 ppb	01:42:54
3	Tl 190.801†	1570.1	1497.2	505.98 ug/L	505.98 ppb	01:43:14
3	U 409.014†	12704.6	14914.3	541.17 ug/L	541.17 ppb	01:42:54
3	V 292.402†	63547.1	60971.3	506.08 ug/L	506.08 ppb	01:42:54
3	Zn 213.857†	51575.0	47466.9	493.58 ug/L	493.58 ppb	01:42:54
3	SiO2†	79443.7	73615.2	5233.8 ug/L	5233.8 ppb	01:43:29

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	808256.3	107.58 %	0.329			0.31%
Sc Radial	3895.9	110 %	0.9			0.80%
Y 371.029	634837.2	107.88 %	0.295			0.27%
Y RADIAL	4400.8	110.1 %	0.57			0.52%
Ag 328.068†	96422.9	502.62 ug/L	3.635	502.62 ppb	3.635	0.72%
QC value within limits for Ag 328.068 Recovery = 100.52%						
Al 396.153Radial†	5122.3	4956.1 ug/L	75.61	4956.1 ppb	75.61	1.53%
QC value within limits for Al 396.153Radial Recovery = 99.12%						
As 188.979†	1067.1	498.60 ug/L	4.068	498.60 ppb	4.068	0.82%
QC value within limits for As 188.979 Recovery = 99.72%						
B 249.677†	19627.5	485.11 ug/L	4.436	485.11 ppb	4.436	0.91%
QC value within limits for B 249.677 Recovery = 97.02%						
Ba 233.527†	57694.6	492.34 ug/L	3.584	492.34 ppb	3.584	0.73%
QC value within limits for Ba 233.527 Recovery = 98.47%						
Be 313.107†	1252492.8	492.56 ug/L	1.715	492.56 ppb	1.715	0.35%
QC value within limits for Be 313.107 Recovery = 98.51%						
Ca 317.933Radial†	2280.2	4981.1 ug/L	15.64	4981.1 ppb	15.64	0.31%

QC value within limits for Ca 317.933 Radial Recovery = 99.62%

Cd 226.502† 37302.7 493.07 ug/L 3.570 493.07 ppb 3.570 0.72%

QC value within limits for Cd 226.502 Recovery = 98.61%

Co 228.616† 22418.5 491.32 ug/L 3.104 491.32 ppb 3.104 0.63%

QC value within limits for Co 228.616 Recovery = 98.26%

Cr 267.716† 37448.9 490.40 ug/L 2.909 490.40 ppb 2.909 0.59%

QC value within limits for Cr 267.716 Recovery = 98.08%

Cu 324.752† 157699.5 491.24 ug/L 3.147 491.24 ppb 3.147 0.64%

QC value within limits for Cu 324.752 Recovery = 98.25%

Fe 238.204 Radial† 337.2 4892.1 ug/L 26.27 4892.1 ppb 26.27 0.54%

QC value within limits for Fe 238.204 Radial Recovery = 97.84%

K 766.490 Radial† 25486.5 4783.3 ug/L 49.69 4783.3 ppb 49.69 1.04%

QC value within limits for K 766.490 Radial Recovery = 95.67%

Mg 279.077 IEC† 99.1 5036.3 ug/L 49.09 5036.3 ppb 49.09 0.97%

QC value within limits for Mg 279.077 IEC Recovery = 100.73%

Mn 257.610† 414533.4 490.81 ug/L 1.712 490.81 ppb 1.712 0.35%

QC value within limits for Mn 257.610 Recovery = 98.16%

Mo 202.031† 6020.4 493.06 ug/L 2.141 493.06 ppb 2.141 0.43%

QC value within limits for Mo 202.031 Recovery = 98.61%

Na 589.592 Radial† 24335.9 8351.8 ug/L 111.83 8351.8 ppb 111.83 1.34%

QC value less than the lower limit for Na 589.592 Radial Recovery = 83.52%

Ni 231.604† 17297.3 491.83 ug/L 3.667 491.83 ppb 3.667 0.75%

QC value within limits for Ni 231.604 Recovery = 98.37%

P 214.914† 3960.3 2324.2 ug/L 17.53 2324.2 ppb 17.53 0.75%

QC value within limits for P 214.914 Recovery = 92.97%

Pb 220.353† 3487.6 486.54 ug/L 3.420 486.54 ppb 3.420 0.70%

QC value within limits for Pb 220.353 Recovery = 97.31%

S 181.975 Axial† 674.3 968.80 ug/L 5.642 968.80 ppb 5.642 0.58%

QC value within limits for S 181.975 Axial Recovery = 96.88%

Sb 206.836† 1331.0 505.66 ug/L 2.317 505.66 ppb 2.317 0.46%

QC value within limits for Sb 206.836 Recovery = 101.13%

Se 196.026† 733.5 515.92 ug/L 6.650 515.92 ppb 6.650 1.29%

QC value within limits for Se 196.026 Recovery = 103.18%

Si 251.611† 74103.1 2475.2 ug/L 18.22 2475.2 ppb 18.22 0.74%

QC value within limits for Si 251.611 Recovery = 99.01%

Sn 189.927† 2456.9 495.26 ug/L 4.014 495.26 ppb 4.014 0.81%

QC value within limits for Sn 189.927 Recovery = 99.05%

Sr 421.552† 63914.0 479.23 ug/L 7.273 479.23 ppb 7.273 1.52%

QC value within limits for Sr 421.552 Recovery = 95.85%

Ti 334.940† 292550.5 485.53 ug/L 3.295 485.53 ppb 3.295 0.68%

QC value within limits for Ti 334.940 Recovery = 97.11%

Tl 190.801† 1487.2 502.60 ug/L 3.053 502.60 ppb 3.053 0.61%

QC value within limits for Tl 190.801 Recovery = 100.52%

U 409.014† 14898.3 540.59 ug/L 4.189 540.59 ppb 4.189 0.77%

QC value within limits for U 409.014 Recovery = 108.12%

V 292.402† 60571.4 502.77 ug/L 3.137 502.77 ppb 3.137 0.62%

QC value within limits for V 292.402 Recovery = 100.55%

Zn 213.857† 47096.4 489.71 ug/L 3.617 489.71 ppb 3.617 0.74%

QC value within limits for Zn 213.857 Recovery = 97.94%

SiO2† 73712.9 5240.9 ug/L 31.43 5240.9 ppb 31.43 0.60%

QC value within limits for SiO2 Recovery = 98.01%

QC Failed. Continue with analysis.

Sequence No.: 82

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 2/20/2010 01:45:39

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	3939.6	3939.6	111 %		01:47:51
1	Y RADIAL	4476.9	4476.9	112.0 %		01:47:31
1	Al 396.153Radial†	-105.4	18.6	18.025 ug/L	18.025 ppb	01:47:51
1	Ca 317.933Radial†	31.5	-3.0	-6.4510 ug/L	-6.4510 ppb	01:47:51
1	Fe 238.204 Radial†	10.9	0.7	9.6960 ug/L	9.6960 ppb	01:47:51
1	K 766.490 Radial†	2747.4	-677.7	-126.78 ug/L	-126.78 ppb	01:47:31
1	Mg 279.077 IEC†	-0.1	-2.7	-138.66 ug/L	-138.66 ppb	01:47:51
1	Na 589.592 Radial†	-110.0	-4126.1	-1416.0 ug/L	-1416.0 ppb	01:47:31
1	Sr 421.552†	291.8	-1179.4	-8.8441 ug/L	-8.8441 ppb	01:47:31
1	Sc 361.383	794938.4	794938.4	105.80 %		01:48:48
1	Y 371.029	632098.8	632098.8	107.42 %		01:48:48
1	Ag 328.068†	253.6	-86.7	-0.4530 ug/L	-0.4530 ppb	01:48:48
1	As 188.979†	-19.6	2.2	1.0223 ug/L	1.0223 ppb	01:49:08
1	B 249.677†	-208.0	245.4	6.0894 ug/L	6.0894 ppb	01:49:08
1	Ba 233.527†	54.9	-93.2	-0.7893 ug/L	-0.7893 ppb	01:49:08
1	Be 313.107†	-4508.6	94.5	0.0381 ug/L	0.0381 ppb	01:48:48
1	Cd 226.502†	-186.9	18.5	0.2470 ug/L	0.2470 ppb	01:49:08
1	Co 228.616†	-53.2	20.0	0.4381 ug/L	0.4381 ppb	01:49:08
1	Cr 267.716†	89.5	6.8	0.0850 ug/L	0.0850 ppb	01:49:08
1	Cu 324.752†	6028.5	-754.5	-2.3588 ug/L	-2.3588 ppb	01:48:48
1	Mn 257.610†	447.7	-48.1	-0.0503 ug/L	-0.0503 ppb	01:49:08
1	Mo 202.031†	18.8	7.8	0.6359 ug/L	0.6359 ppb	01:49:08
1	Ni 231.604†	82.4	-1.3	-0.0371 ug/L	-0.0371 ppb	01:49:08
1	P 214.914†	215.4	-7.5	-4.1133 ug/L	-4.1133 ppb	01:49:08
1	Pb 220.353†	-39.6	-58.3	-8.0911 ug/L	-8.0911 ppb	01:49:08
1	S 181.975 Axial†	40.6	1.0	1.4577 ug/L	1.4577 ppb	01:49:08
1	Sb 206.836†	36.1	-2.2	-0.7872 ug/L	-0.7872 ppb	01:49:08
1	Se 196.026†	-26.5	4.2	2.8972 ug/L	2.8972 ppb	01:49:08
1	Si 251.611†	548.7	22.1	0.7312 ug/L	0.7312 ppb	01:49:08
1	Sn 189.927†	21.8	5.3	1.0583 ug/L	1.0583 ppb	01:49:08
1	Ti 334.940†	-1278.8	271.3	0.4537 ug/L	0.4537 ppb	01:48:48
1	Tl 190.801†	-27.1	6.9	2.3198 ug/L	2.3198 ppb	01:49:08
1	U 409.014†	-2770.2	444.9	16.191 ug/L	16.191 ppb	01:48:48
1	V 292.402†	-1588.8	191.0	1.6000 ug/L	1.6000 ppb	01:48:48
1	Zn 213.857†	619.4	-58.3	-0.6103 ug/L	-0.6103 ppb	01:49:08
1	SiO2†	561.1	38.1	2.6998 ug/L	2.6998 ppb	01:50:04
2	Sc Radial	3919.7	3919.7	111 %		01:48:16
2	Y RADIAL	4425.2	4425.2	110.7 %		01:47:56
2	Al 396.153Radial†	-106.3	17.3	16.846 ug/L	16.846 ppb	01:48:16
2	Ca 317.933Radial†	23.1	-10.4	-22.709 ug/L	-22.709 ppb	01:48:16
2	Fe 238.204 Radial†	8.6	-1.4	-20.536 ug/L	-20.536 ppb	01:48:16
2	K 766.490 Radial†	2814.9	-604.3	-112.99 ug/L	-112.99 ppb	01:47:56
2	Mg 279.077 IEC†	0.6	-2.1	-108.04 ug/L	-108.04 ppb	01:48:16
2	Na 589.592 Radial†	-29.2	-4053.7	-1391.2 ug/L	-1391.2 ppb	01:47:56
2	Sr 421.552†	195.7	-1264.8	-9.4840 ug/L	-9.4840 ppb	01:47:56
2	Sc 361.383	794026.7	794026.7	105.68 %		01:49:13
2	Y 371.029	631932.8	631932.8	107.39 %		01:49:13
2	Ag 328.068†	256.4	-83.8	-0.4477 ug/L	-0.4477 ppb	01:49:13
2	As 188.979†	-29.6	-7.3	-3.3850 ug/L	-3.3850 ppb	01:49:33
2	B 249.677†	-229.4	224.9	5.5870 ug/L	5.5870 ppb	01:49:33
2	Ba 233.527†	53.1	-94.8	-0.8042 ug/L	-0.8042 ppb	01:49:33
2	Be 313.107†	-4546.1	54.1	0.0220 ug/L	0.0220 ppb	01:49:13
2	Cd 226.502†	-192.4	13.1	0.1787 ug/L	0.1787 ppb	01:49:33
2	Co 228.616†	-58.1	15.3	0.3353 ug/L	0.3353 ppb	01:49:33
2	Cr 267.716†	84.8	2.4	0.0248 ug/L	0.0248 ppb	01:49:33
2	Cu 324.752†	5893.5	-875.6	-2.7389 ug/L	-2.7389 ppb	01:49:13
2	Mn 257.610†	460.7	-35.4	-0.0395 ug/L	-0.0395 ppb	01:49:33
2	Mo 202.031†	14.5	3.7	0.3040 ug/L	0.3040 ppb	01:49:33
2	Ni 231.604†	90.3	6.3	0.1798 ug/L	0.1798 ppb	01:49:33

2	P 214.914†	208.2	-14.1	-8.0445 ug/L	-8.0445 ppb	01:49:33
2	Pb 220.353†	-46.2	-64.6	-8.9598 ug/L	-8.9598 ppb	01:49:33
2	S 181.975 Axial†	34.4	-4.8	-6.8910 ug/L	-6.8910 ppb	01:49:33
2	Sb 206.836†	52.3	13.1	4.8313 ug/L	4.8313 ppb	01:49:33
2	Se 196.026†	-29.2	1.7	1.0611 ug/L	1.0611 ppb	01:49:33
2	Si 251.611†	542.7	17.0	0.5648 ug/L	0.5648 ppb	01:49:33
2	Sn 189.927†	19.8	3.4	0.6760 ug/L	0.6760 ppb	01:49:33
2	Ti 334.940†	-1343.3	208.9	0.3447 ug/L	0.3447 ppb	01:49:13
2	Tl 190.801†	-18.0	15.5	5.1947 ug/L	5.1947 ppb	01:49:33
2	U 409.014†	-2718.2	491.1	17.877 ug/L	17.877 ppb	01:49:13
2	V 292.402†	-1570.6	206.5	1.7304 ug/L	1.7304 ppb	01:49:13
2	Zn 213.857†	625.3	-52.1	-0.5409 ug/L	-0.5409 ppb	01:49:33
2	SiO2†	531.3	10.5	0.7413 ug/L	0.7413 ppb	01:50:09
3	Sc Radial	3903.5	3903.5	110 %		01:48:41
3	Y RADIAL	4487.6	4487.6	112.2 %		01:48:21
3	Al 396.153Radial†	-94.3	27.8	26.981 ug/L	26.981 ppb	01:48:41
3	Ca 317.933Radial†	293.7	234.9	513.06 ug/L	513.06 ppb	01:48:41
3	Fe 238.204 Radial†	7.9	-2.0	-28.995 ug/L	-28.995 ppb	01:48:41
3	K 766.490 Radial†	2822.2	-587.0	-109.92 ug/L	-109.92 ppb	01:48:21
3	Mg 279.077 IEC†	2.0	-0.9	-44.957 ug/L	-44.957 ppb	01:48:41
3	Na 589.592 Radial†	-85.8	-4105.1	-1408.8 ug/L	-1408.8 ppb	01:48:21
3	Sr 421.552†	312.2	-1158.5	-8.6911 ug/L	-8.6911 ppb	01:48:21
3	Sc 361.383	798790.2	798790.2	106.32 %		01:49:38
3	Y 371.029	636527.2	636527.2	108.17 %		01:49:38
3	Ag 328.068†	234.4	-105.9	-0.5704 ug/L	-0.5704 ppb	01:49:38
3	As 188.979†	-22.1	-0.1	-0.0392 ug/L	-0.0392 ppb	01:49:58
3	B 249.677†	-226.2	229.2	5.6955 ug/L	5.6955 ppb	01:49:58
3	Ba 233.527†	82.7	-67.2	-0.5689 ug/L	-0.5689 ppb	01:49:58
3	Be 313.107†	-4532.3	92.8	0.0374 ug/L	0.0374 ppb	01:49:38
3	Cd 226.502†	-185.8	20.4	0.2753 ug/L	0.2753 ppb	01:49:58
3	Co 228.616†	-60.9	13.0	0.2850 ug/L	0.2850 ppb	01:49:58
3	Cr 267.716†	52.2	-28.8	-0.3825 ug/L	-0.3825 ppb	01:49:58
3	Cu 324.752†	5867.0	-933.8	-2.9198 ug/L	-2.9198 ppb	01:49:38
3	Mn 257.610†	449.9	-48.2	-0.0580 ug/L	-0.0580 ppb	01:49:58
3	Mo 202.031†	10.2	-0.3	-0.0243 ug/L	-0.0243 ppb	01:49:58
3	Ni 231.604†	80.9	-3.0	-0.0861 ug/L	-0.0861 ppb	01:49:58
3	P 214.914†	203.0	-20.2	-11.712 ug/L	-11.712 ppb	01:49:58
3	Pb 220.353†	-51.7	-69.5	-9.6190 ug/L	-9.6190 ppb	01:49:58
3	S 181.975 Axial†	39.8	0.0	0.0392 ug/L	0.0392 ppb	01:49:58
3	Sb 206.836†	33.5	-4.9	-1.7580 ug/L	-1.7580 ppb	01:49:58
3	Se 196.026†	-17.7	12.6	8.4478 ug/L	8.4478 ppb	01:49:58
3	Si 251.611†	527.9	0.0	0.0012 ug/L	0.0012 ppb	01:49:58
3	Sn 189.927†	22.1	5.5	1.1965 ug/L	1.1965 ppb	01:49:58
3	Ti 334.940†	-1303.5	253.9	0.4868 ug/L	0.4868 ppb	01:49:38
3	Tl 190.801†	-28.1	6.1	2.0448 ug/L	2.0448 ppb	01:49:58
3	U 409.014†	-2767.1	460.4	16.761 ug/L	16.761 ppb	01:49:38
3	V 292.402†	-1547.4	237.3	1.9780 ug/L	1.9780 ppb	01:49:38
3	Zn 213.857†	621.9	-58.9	-0.6088 ug/L	-0.6088 ppb	01:49:58
3	SiO2†	502.5	-19.5	-1.3920 ug/L	-1.3920 ppb	01:50:14

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	795918.4	105.93 %	0.337			0.32%
Sc Radial	3920.9	111 %	0.5			0.46%
Y 371.029	633519.6	107.66 %	0.443			0.41%
Y RADIAL	4463.2	111.6 %	0.83			0.75%
Ag 328.068†	-92.1	-0.4904 ug/L	0.06935	-0.4904 ppb	0.06935	14.14%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	21.2	20.617 ug/L	5.5424	20.617 ppb	5.5424	26.88%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.7	-0.8006 ug/L	2.30019	-0.8006 ppb	2.30019	287.31%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	233.2	5.7906 ug/L	0.26434	5.7906 ppb	0.26434	4.56%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-85.1	-0.7208 ug/L	0.13174	-0.7208 ppb	0.13174	18.28%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	80.5	0.0325 ug/L	0.00908	0.0325 ppb	0.00908	27.93%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	73.8	161.30 ug/L	304.740	161.30 ppb	304.740	188.93%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated

Cd 226.502†	17.3	0.2337 ug/L	0.04965	0.2337 ppb	0.04965	21.25%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	16.1	0.3528 ug/L	0.07800	0.3528 ppb	0.07800	22.11%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-6.5	-0.0909 ug/L	0.25431	-0.0909 ppb	0.25431	279.74%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-854.6	-2.6725 ug/L	0.28632	-2.6725 ppb	0.28632	10.71%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.9	-13.278 ug/L	20.3409	-13.278 ppb	20.3409	153.19%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	-623.0	-116.56 ug/L	8.980	-116.56 ppb	8.980	7.70%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	-1.9	-97.220 ug/L	47.7805	-97.220 ppb	47.7805	49.15%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-43.9	-0.0493 ug/L	0.00929	-0.0493 ppb	0.00929	18.84%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	3.7	0.3052 ug/L	0.33009	0.3052 ppb	0.33009	108.15%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-4095.0	-1405.3 ug/L	12.78	-1405.3 ppb	12.78	0.91%
QC value less than the lower limit for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	0.7	0.0189 ug/L	0.14149	0.0189 ppb	0.14149	748.55%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-13.9	-7.9565 ug/L	3.80004	-7.9565 ppb	3.80004	47.76%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-64.1	-8.8900 ug/L	0.76635	-8.8900 ppb	0.76635	8.62%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-1.2	-1.7980 ug/L	4.46733	-1.7980 ppb	4.46733	248.46%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	2.0	0.7620 ug/L	3.55734	0.7620 ppb	3.55734	466.82%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	6.2	4.1354 ug/L	3.84586	4.1354 ppb	3.84586	93.00%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	13.0	0.4324 ug/L	0.38258	0.4324 ppb	0.38258	88.47%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	4.7	0.9769 ug/L	0.26961	0.9769 ppb	0.26961	27.60%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-1200.9	-9.0064 ug/L	0.42059	-9.0064 ppb	0.42059	4.67%
QC value less than the lower limit for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	244.7	0.4284 ug/L	0.07434	0.4284 ppb	0.07434	17.35%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	9.5	3.1864 ug/L	1.74466	3.1864 ppb	1.74466	54.75%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	465.5	16.943 ug/L	0.8576	16.943 ppb	0.8576	5.06%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	211.6	1.7695 ug/L	0.19200	1.7695 ppb	0.19200	10.85%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-56.4	-0.5867 ug/L	0.03963	-0.5867 ppb	0.03963	6.76%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	9.7	0.6830 ug/L	2.04651	0.6830 ppb	2.04651	299.63%
QC value within limits for SiO2 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 90
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 1
 Date Collected: 2/20/2010 02:40:23
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3963.1	3963.1	112 %		02:42:35
1	Y RADIAL	4484.3	4484.3	112.1 %		02:42:15
1	Al 396.153Radial†	5654.2	5159.3	4991.8 ug/L	4991.8 ppb	02:42:15
1	Ca 317.933Radial†	2609.3	2297.4	5018.7 ug/L	5018.7 ppb	02:42:35
1	Fe 238.204 Radial†	398.3	346.4	5025.4 ug/L	5025.4 ppb	02:42:35
1	K 766.490 Radial†	32273.5	25658.2	4815.4 ug/L	4815.4 ppb	02:42:15
1	Mg 279.077 IEC†	114.5	99.5	5057.8 ug/L	5057.8 ppb	02:42:35
1	Na 589.592 Radial†	33440.6	25816.6	8860.0 ug/L	8860.0 ppb	02:42:15
1	Sr 421.552†	75475.8	65916.6	494.24 ug/L	494.24 ppb	02:42:15
1	Sc 361.383	804877.9	804877.9	107.13 %		02:43:32
1	Y 371.029	633251.5	633251.5	107.61 %		02:43:32
1	Ag 328.068†	105430.5	98089.6	511.32 ug/L	511.32 ppb	02:43:37
1	As 188.979†	1137.0	1082.0	505.60 ug/L	505.60 ppb	02:43:57
1	B 249.677†	20840.3	19895.7	491.72 ug/L	491.72 ppb	02:43:37
1	Ba 233.527†	63110.1	58766.2	501.48 ug/L	501.48 ppb	02:43:37
1	Be 313.107†	1339121.3	1254382.3	493.32 ug/L	493.32 ppb	02:43:32
1	Cd 226.502†	40493.5	37994.5	502.20 ug/L	502.20 ppb	02:43:37
1	Co 228.616†	24377.3	22825.7	500.24 ug/L	500.24 ppb	02:43:37
1	Cr 267.716†	40910.6	38110.9	499.07 ug/L	499.07 ppb	02:43:37
1	Cu 324.752†	179036.0	160672.1	500.50 ug/L	500.50 ppb	02:43:37
1	Mn 257.610†	445498.9	415387.5	491.83 ug/L	491.83 ppb	02:43:32
1	Mo 202.031†	6541.2	6096.0	499.26 ug/L	499.26 ppb	02:43:57
1	Ni 231.604†	18853.7	17520.1	498.16 ug/L	498.16 ppb	02:43:37
1	P 214.914†	4496.8	3986.5	2338.4 ug/L	2338.4 ppb	02:43:57
1	Pb 220.353†	3782.1	3509.6	489.61 ug/L	489.61 ppb	02:43:57
1	S 181.975 Axial†	783.3	693.8	996.91 ug/L	996.91 ppb	02:43:57
1	Sb 206.836†	1492.0	1356.4	515.20 ug/L	515.20 ppb	02:43:57
1	Se 196.026†	756.4	735.3	517.67 ug/L	517.67 ppb	02:43:57
1	Si 251.611†	81494.7	75576.1	2524.4 ug/L	2524.4 ppb	02:43:37
1	Sn 189.927†	2683.6	2489.7	501.86 ug/L	501.86 ppb	02:43:57
1	Ti 334.940†	317309.1	297677.7	494.04 ug/L	494.04 ppb	02:43:37
1	Tl 190.801†	1575.6	1503.3	508.03 ug/L	508.03 ppb	02:43:57
1	U 409.014†	13005.6	15203.5	551.67 ug/L	551.67 ppb	02:43:37
1	V 292.402†	64162.9	61586.7	511.16 ug/L	511.16 ppb	02:43:37
1	Zn 213.857†	51987.1	47884.6	497.91 ug/L	497.91 ppb	02:43:37
1	SiO2†	80812.8	74944.0	5328.5 ug/L	5328.5 ppb	02:45:05
2	Sc Radial	3955.9	3955.9	112 %		02:43:00
2	Y RADIAL	4467.2	4467.2	111.7 %		02:42:40
2	Al 396.153Radial†	5529.5	5057.0	4892.7 ug/L	4892.7 ppb	02:42:40
2	Ca 317.933Radial†	2601.2	2294.4	5012.2 ug/L	5012.2 ppb	02:43:00
2	Fe 238.204 Radial†	396.9	345.7	5016.1 ug/L	5016.1 ppb	02:43:00
2	K 766.490 Radial†	31694.6	25192.8	4728.0 ug/L	4728.0 ppb	02:42:40
2	Mg 279.077 IEC†	116.4	101.4	5153.5 ug/L	5153.5 ppb	02:43:00
2	Na 589.592 Radial†	32815.7	25311.9	8686.8 ug/L	8686.8 ppb	02:42:40
2	Sr 421.552†	73842.2	64577.9	484.20 ug/L	484.20 ppb	02:42:40
2	Sc 361.383	811460.9	811460.9	108.00 %		02:44:03
2	Y 371.029	637636.9	637636.9	108.36 %		02:44:03
2	Ag 328.068†	104605.3	96527.2	503.19 ug/L	503.19 ppb	02:44:08
2	As 188.979†	1121.5	1059.0	494.89 ug/L	494.89 ppb	02:44:28
2	B 249.677†	20757.8	19661.5	485.93 ug/L	485.93 ppb	02:44:08
2	Ba 233.527†	62644.5	57857.2	493.72 ug/L	493.72 ppb	02:44:08
2	Be 313.107†	1354419.6	1258406.2	494.88 ug/L	494.88 ppb	02:44:03
2	Cd 226.502†	40213.3	37428.4	494.72 ug/L	494.72 ppb	02:44:08
2	Co 228.616†	24173.0	22452.0	492.05 ug/L	492.05 ppb	02:44:08
2	Cr 267.716†	40712.2	37617.4	492.61 ug/L	492.61 ppb	02:44:08
2	Cu 324.752†	177062.6	157489.2	490.59 ug/L	490.59 ppb	02:44:08
2	Mn 257.610†	451194.0	417287.0	494.07 ug/L	494.07 ppb	02:44:03
2	Mo 202.031†	6501.5	6009.7	492.20 ug/L	492.20 ppb	02:44:28
2	Ni 231.604†	18804.8	17332.2	492.82 ug/L	492.82 ppb	02:44:08

2	P 214.914†	4495.2	3950.9	2318.5 ug/L	2318.5 ppb	02:44:28
2	Pb 220.353†	3773.8	3473.3	484.53 ug/L	484.53 ppb	02:44:28
2	S 181.975 Axial†	771.0	676.5	971.96 ug/L	971.96 ppb	02:44:28
2	Sb 206.836†	1484.5	1338.2	508.31 ug/L	508.31 ppb	02:44:28
2	Se 196.026†	749.6	723.3	509.47 ug/L	509.47 ppb	02:44:28
2	Si 251.611†	80706.8	74229.6	2479.4 ug/L	2479.4 ppb	02:44:08
2	Sn 189.927†	2683.5	2469.3	497.74 ug/L	497.74 ppb	02:44:28
2	Ti 334.940†	314556.1	292725.9	485.81 ug/L	485.81 ppb	02:44:08
2	Tl 190.801†	1572.0	1488.0	502.90 ug/L	502.90 ppb	02:44:28
2	U 409.014†	12904.1	15010.9	544.67 ug/L	544.67 ppb	02:44:08
2	V 292.402†	63553.1	60536.2	502.46 ug/L	502.46 ppb	02:44:08
2	Zn 213.857†	51671.6	47198.7	490.76 ug/L	490.76 ppb	02:44:08
2	SiO2†	79766.6	73363.3	5216.0 ug/L	5216.0 ppb	02:45:10
3	Sc Radial	3942.2	3942.2	111 %		02:43:25
3	Y RADIAL	4458.7	4458.7	111.5 %		02:43:05
3	Al 396.153Radial†	5568.5	5109.1	4943.0 ug/L	4943.0 ppb	02:43:05
3	Ca 317.933Radial†	2602.2	2303.4	5031.7 ug/L	5031.7 ppb	02:43:25
3	Fe 238.204 Radial†	395.8	345.9	5018.9 ug/L	5018.9 ppb	02:43:25
3	K 766.490 Radial†	32039.9	25601.2	4804.7 ug/L	4804.7 ppb	02:43:05
3	Mg 279.077 IEC†	112.6	98.4	5000.5 ug/L	5000.5 ppb	02:43:25
3	Na 589.592 Radial†	32910.9	25499.4	8751.1 ug/L	8751.1 ppb	02:43:05
3	Sr 421.552†	74563.2	65454.7	490.78 ug/L	490.78 ppb	02:43:05
3	Sc 361.383	805738.5	805738.5	107.24 %		02:44:34
3	Y 371.029	633583.4	633583.4	107.67 %		02:44:34
3	Ag 328.068†	105632.4	98172.8	511.75 ug/L	511.75 ppb	02:44:39
3	As 188.979†	1139.8	1083.5	506.27 ug/L	506.27 ppb	02:44:59
3	B 249.677†	20923.4	19952.4	493.13 ug/L	493.13 ppb	02:44:39
3	Ba 233.527†	63063.8	58660.1	500.58 ug/L	500.58 ppb	02:44:39
3	Be 313.107†	1347181.8	1260563.4	495.74 ug/L	495.74 ppb	02:44:34
3	Cd 226.502†	40407.0	37873.5	500.61 ug/L	500.61 ppb	02:44:39
3	Co 228.616†	24405.7	22827.9	500.29 ug/L	500.29 ppb	02:44:39
3	Cr 267.716†	40835.8	38000.4	497.62 ug/L	497.62 ppb	02:44:39
3	Cu 324.752†	179062.1	160517.9	500.02 ug/L	500.02 ppb	02:44:39
3	Mn 257.610†	449319.5	418505.9	495.52 ug/L	495.52 ppb	02:44:34
3	Mo 202.031†	6557.3	6104.5	499.96 ug/L	499.96 ppb	02:44:59
3	Ni 231.604†	18892.6	17537.7	498.66 ug/L	498.66 ppb	02:44:39
3	P 214.914†	4543.6	4025.7	2362.4 ug/L	2362.4 ppb	02:44:59
3	Pb 220.353†	3824.9	3545.8	494.62 ug/L	494.62 ppb	02:44:59
3	S 181.975 Axial†	784.2	693.9	997.04 ug/L	997.04 ppb	02:44:59
3	Sb 206.836†	1500.7	1363.0	517.69 ug/L	517.69 ppb	02:44:59
3	Se 196.026†	770.8	748.0	526.24 ug/L	526.24 ppb	02:44:59
3	Si 251.611†	81558.1	75554.0	2523.7 ug/L	2523.7 ppb	02:44:39
3	Sn 189.927†	2706.8	2508.7	505.68 ug/L	505.68 ppb	02:44:59
3	Ti 334.940†	317372.0	297420.1	493.61 ug/L	493.61 ppb	02:44:39
3	Tl 190.801†	1593.8	1518.7	513.21 ug/L	513.21 ppb	02:44:59
3	U 409.014†	13122.5	15299.4	555.16 ug/L	555.16 ppb	02:44:39
3	V 292.402†	64247.1	61601.2	511.30 ug/L	511.30 ppb	02:44:39
3	Zn 213.857†	52043.3	47885.1	497.92 ug/L	497.92 ppb	02:44:39
3	SiO2†	81103.3	75134.2	5342.0 ug/L	5342.0 ppb	02:45:15

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	807359.1	107.46 %	0.476			0.44%
Sc Radial	3953.8	112 %	0.3			0.27%
Y 371.029	634824.0	107.88 %	0.415			0.38%
Y RADIAL	4470.0	111.8 %	0.33			0.29%
Ag 328.068†	97596.5	508.75 ug/L	4.820	508.75 ppb	4.820	0.95%
QC value within limits for Ag 328.068 Recovery = 101.75%						
Al 396.153Radial†	5108.5	4942.5 ug/L	49.59	4942.5 ppb	49.59	1.00%
QC value within limits for Al 396.153Radial Recovery = 98.85%						
As 188.979†	1074.9	502.25 ug/L	6.389	502.25 ppb	6.389	1.27%
QC value within limits for As 188.979 Recovery = 100.45%						
B 249.677†	19836.5	490.26 ug/L	3.816	490.26 ppb	3.816	0.78%
QC value within limits for B 249.677 Recovery = 98.05%						
Ba 233.527†	58427.9	498.59 ug/L	4.242	498.59 ppb	4.242	0.85%
QC value within limits for Ba 233.527 Recovery = 99.72%						
Be 313.107†	1257784.0	494.65 ug/L	1.229	494.65 ppb	1.229	0.25%
QC value within limits for Be 313.107 Recovery = 98.93%						
Ca 317.933Radial†	2298.4	5020.8 ug/L	9.96	5020.8 ppb	9.96	0.20%

QC value within limits for Ca 317.933 Radial Recovery = 100.42%

Cd 226.502†	37765.5	499.18 ug/L	3.943	499.18 ppb	3.943	0.79%
QC value within limits for Cd 226.502 Recovery = 99.84%						
Co 228.616†	22701.9	497.53 ug/L	4.743	497.53 ppb	4.743	0.95%
QC value within limits for Co 228.616 Recovery = 99.51%						
Cr 267.716†	37909.5	496.44 ug/L	3.391	496.44 ppb	3.391	0.68%
QC value within limits for Cr 267.716 Recovery = 99.29%						
Cu 324.752†	159559.8	497.03 ug/L	5.589	497.03 ppb	5.589	1.12%
QC value within limits for Cu 324.752 Recovery = 99.41%						
Fe 238.204 Radial†	346.0	5020.1 ug/L	4.75	5020.1 ppb	4.75	0.09%
QC value within limits for Fe 238.204 Radial Recovery = 100.40%						
K 766.490 Radial†	25484.1	4782.7 ug/L	47.67	4782.7 ppb	47.67	1.00%
QC value within limits for K 766.490 Radial Recovery = 95.65%						
Mg 279.077 IEC†	99.8	5070.6 ug/L	77.31	5070.6 ppb	77.31	1.52%
QC value within limits for Mg 279.077 IEC Recovery = 101.41%						
Mn 257.610†	417060.1	493.81 ug/L	1.860	493.81 ppb	1.860	0.38%
QC value within limits for Mn 257.610 Recovery = 98.76%						
Mo 202.031†	6070.1	497.14 ug/L	4.292	497.14 ppb	4.292	0.86%
QC value within limits for Mo 202.031 Recovery = 99.43%						
Na 589.592 Radial†	25542.6	8766.0 ug/L	87.56	8766.0 ppb	87.56	1.00%
QC value less than the lower limit for Na 589.592 Radial Recovery = 87.66%						
Ni 231.604†	17463.3	496.55 ug/L	3.239	496.55 ppb	3.239	0.65%
QC value within limits for Ni 231.604 Recovery = 99.31%						
P 214.914†	3987.7	2339.8 ug/L	21.98	2339.8 ppb	21.98	0.94%
QC value within limits for P 214.914 Recovery = 93.59%						
Pb 220.353†	3509.5	489.59 ug/L	5.047	489.59 ppb	5.047	1.03%
QC value within limits for Pb 220.353 Recovery = 97.92%						
S 181.975 Axial†	688.1	988.63 ug/L	14.442	988.63 ppb	14.442	1.46%
QC value within limits for S 181.975 Axial Recovery = 98.86%						
Sb 206.836†	1352.5	513.73 ug/L	4.858	513.73 ppb	4.858	0.95%
QC value within limits for Sb 206.836 Recovery = 102.75%						
Se 196.026†	735.5	517.79 ug/L	8.386	517.79 ppb	8.386	1.62%
QC value within limits for Se 196.026 Recovery = 103.56%						
Si 251.611†	75119.9	2509.2 ug/L	25.77	2509.2 ppb	25.77	1.03%
QC value within limits for Si 251.611 Recovery = 100.37%						
Sn 189.927†	2489.2	501.76 ug/L	3.970	501.76 ppb	3.970	0.79%
QC value within limits for Sn 189.927 Recovery = 100.35%						
Sr 421.552†	65316.4	489.74 ug/L	5.099	489.74 ppb	5.099	1.04%
QC value within limits for Sr 421.552 Recovery = 97.95%						
Ti 334.940†	295941.2	491.15 ug/L	4.631	491.15 ppb	4.631	0.94%
QC value within limits for Ti 334.940 Recovery = 98.23%						
Tl 190.801†	1503.3	508.05 ug/L	5.158	508.05 ppb	5.158	1.02%
QC value within limits for Tl 190.801 Recovery = 101.61%						
U 409.014†	15171.3	550.50 ug/L	5.340	550.50 ppb	5.340	0.97%
QC value greater than the upper limit for U 409.014 Recovery = 110.10%						
V 292.402†	61241.4	508.30 ug/L	5.064	508.30 ppb	5.064	1.00%
QC value within limits for V 292.402 Recovery = 101.66%						
Zn 213.857†	47656.1	495.53 ug/L	4.129	495.53 ppb	4.129	0.83%
QC value within limits for Zn 213.857 Recovery = 99.11%						
SiO2†	74480.5	5295.5 ug/L	69.18	5295.5 ppb	69.18	1.31%
QC value within limits for SiO2 Recovery = 99.03%						

QC Failed. Continue with analysis.

Sequence No.: 91
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 2/20/2010 02:47:25
 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	3884.2	3884.2	110 %		02:49:37
1	Y RADIAL	4424.1	4424.1	110.6 %		02:49:17
1	Al 396.153Radial†	-95.2	26.6	25.773 ug/L	25.773 ppb	02:49:37
1	Ca 317.933Radial†	29.3	-4.6	-10.043 ug/L	-10.043 ppb	02:49:37
1	Fe 238.204 Radial†	8.5	-1.5	-20.977 ug/L	-20.977 ppb	02:49:37
1	K 766.490 Radial†	2769.9	-621.9	-116.31 ug/L	-116.31 ppb	02:49:17
1	Mg 279.077 IEC†	3.1	0.2	10.868 ug/L	10.868 ppb	02:49:37
1	Na 589.592 Radial†	-152.0	-4165.7	-1429.6 ug/L	-1429.6 ppb	02:49:17
1	Sr 421.552†	379.5	-1095.9	-8.2173 ug/L	-8.2173 ppb	02:49:17
1	Sc 361.383	794157.4	794157.4	105.70 %		02:50:34
1	Y 371.029	632539.6	632539.6	107.49 %		02:50:34
1	Ag 328.068†	178.8	-157.2	-0.8291 ug/L	-0.8291 ppb	02:50:34
1	As 188.979†	-21.9	-0.1	-0.0416 ug/L	-0.0416 ppb	02:50:54
1	B 249.677†	-221.1	232.8	5.7823 ug/L	5.7823 ppb	02:50:54
1	Ba 233.527†	33.6	-113.2	-0.9610 ug/L	-0.9610 ppb	02:50:54
1	Be 313.107†	-4562.1	39.8	0.0166 ug/L	0.0166 ppb	02:50:34
1	Cd 226.502†	-181.9	23.0	0.3099 ug/L	0.3099 ppb	02:50:54
1	Co 228.616†	-69.5	4.5	0.1001 ug/L	0.1001 ppb	02:50:54
1	Cr 267.716†	84.9	2.5	0.0261 ug/L	0.0261 ppb	02:50:54
1	Cu 324.752†	5919.1	-852.4	-2.6664 ug/L	-2.6664 ppb	02:50:34
1	Mn 257.610†	451.6	-44.1	-0.0547 ug/L	-0.0547 ppb	02:50:54
1	Mo 202.031†	22.6	11.4	0.9342 ug/L	0.9342 ppb	02:50:54
1	Ni 231.604†	73.4	-9.7	-0.2762 ug/L	-0.2762 ppb	02:50:54
1	P 214.914†	215.9	-6.9	-3.6413 ug/L	-3.6413 ppb	02:50:54
1	Pb 220.353†	-54.5	-72.5	-10.054 ug/L	-10.054 ppb	02:50:54
1	S 181.975 Axial†	41.8	2.1	3.0656 ug/L	3.0656 ppb	02:50:54
1	Sb 206.836†	40.9	2.4	0.9037 ug/L	0.9037 ppb	02:50:54
1	Se 196.026†	-28.1	2.7	1.7460 ug/L	1.7460 ppb	02:50:54
1	Si 251.611†	557.4	30.8	1.0199 ug/L	1.0199 ppb	02:50:54
1	Sn 189.927†	20.1	3.7	0.7420 ug/L	0.7420 ppb	02:50:54
1	Ti 334.940†	-1285.8	263.5	0.4272 ug/L	0.4272 ppb	02:50:34
1	Tl 190.801†	-18.1	15.5	5.1940 ug/L	5.1940 ppb	02:50:54
1	U 409.014†	-2713.7	495.8	18.047 ug/L	18.047 ppb	02:50:34
1	V 292.402†	-1584.0	194.2	1.6406 ug/L	1.6406 ppb	02:50:34
1	Zn 213.857†	636.9	-41.3	-0.4244 ug/L	-0.4244 ppb	02:50:54
1	SiO2†	606.1	81.2	5.7636 ug/L	5.7636 ppb	02:51:50
2	Sc Radial	3883.8	3883.8	110 %		02:50:02
2	Y RADIAL	4247.6	4247.6	106.2 %		02:49:42
2	Al 396.153Radial†	-115.1	8.4	8.1588 ug/L	8.1588 ppb	02:50:02
2	Ca 317.933Radial†	30.7	-3.3	-7.2536 ug/L	-7.2536 ppb	02:50:02
2	Fe 238.204 Radial†	7.6	-2.2	-31.870 ug/L	-31.870 ppb	02:50:02
2	K 766.490 Radial†	2854.9	-544.3	-101.71 ug/L	-101.71 ppb	02:49:42
2	Mg 279.077 IEC†	2.3	-0.6	-28.412 ug/L	-28.412 ppb	02:50:02
2	Na 589.592 Radial†	-224.3	-4231.6	-1452.3 ug/L	-1452.3 ppb	02:49:42
2	Sr 421.552†	263.6	-1201.4	-9.0085 ug/L	-9.0085 ppb	02:49:42
2	Sc 361.383	789481.2	789481.2	105.08 %		02:50:59
2	Y 371.029	627498.0	627498.0	106.63 %		02:50:59
2	Ag 328.068†	192.8	-142.9	-0.7537 ug/L	-0.7537 ppb	02:50:59
2	As 188.979†	-20.4	1.3	0.5871 ug/L	0.5871 ppb	02:51:19
2	B 249.677†	-253.0	201.2	4.9977 ug/L	4.9977 ppb	02:51:19
2	Ba 233.527†	77.5	-71.3	-0.6052 ug/L	-0.6052 ppb	02:51:19
2	Be 313.107†	-4508.9	64.8	0.0265 ug/L	0.0265 ppb	02:50:59
2	Cd 226.502†	-191.1	13.3	0.1812 ug/L	0.1812 ppb	02:51:19
2	Co 228.616†	-45.0	27.4	0.6011 ug/L	0.6011 ppb	02:51:19
2	Cr 267.716†	66.8	-14.2	-0.1911 ug/L	-0.1911 ppb	02:51:19
2	Cu 324.752†	5922.7	-815.8	-2.5488 ug/L	-2.5488 ppb	02:50:59
2	Mn 257.610†	477.9	-16.6	-0.0216 ug/L	-0.0216 ppb	02:51:19
2	Mo 202.031†	12.7	2.1	0.1677 ug/L	0.1677 ppb	02:51:19
2	Ni 231.604†	75.1	-7.7	-0.2189 ug/L	-0.2189 ppb	02:51:19

2	P 214.914†	216.4	-5.2	-2.6202 ug/L	-2.6202 ppb	02:51:19
2	Pb 220.353†	-41.9	-60.7	-8.4289 ug/L	-8.4289 ppb	02:51:19
2	S 181.975 Axial†	38.9	-0.4	-0.5393 ug/L	-0.5393 ppb	02:51:19
2	Sb 206.836†	47.6	8.9	3.2746 ug/L	3.2746 ppb	02:51:19
2	Se 196.026†	-20.5	9.8	6.5176 ug/L	6.5176 ppb	02:51:19
2	Si 251.611†	559.7	36.2	1.2093 ug/L	1.2093 ppb	02:51:19
2	Sn 189.927†	17.1	1.0	0.1935 ug/L	0.1935 ppb	02:51:19
2	Ti 334.940†	-1258.0	282.8	0.4663 ug/L	0.4663 ppb	02:50:59
2	Tl 190.801†	-20.8	12.8	4.2908 ug/L	4.2908 ppb	02:51:19
2	U 409.014†	-2919.5	284.7	10.367 ug/L	10.367 ppb	02:50:59
2	V 292.402†	-1628.5	142.9	1.1966 ug/L	1.1966 ppb	02:50:59
2	Zn 213.857†	621.6	-52.2	-0.5381 ug/L	-0.5381 ppb	02:51:19
2	SiO2†	569.2	49.5	3.5210 ug/L	3.5210 ppb	02:51:55
3	Sc Radial	3871.0	3871.0	109 %		02:50:27
3	Y RADIAL	4397.1	4397.1	110.0 %		02:50:07
3	Al 396.153Radial†	-105.6	16.7	16.226 ug/L	16.226 ppb	02:50:27
3	Ca 317.933Radial†	30.2	-3.6	-7.9558 ug/L	-7.9558 ppb	02:50:27
3	Fe 238.204 Radial†	8.5	-1.4	-20.074 ug/L	-20.074 ppb	02:50:27
3	K 766.490 Radial†	2856.1	-534.6	-99.882 ug/L	-99.882 ppb	02:50:07
3	Mg 279.077 IEC†	0.7	-2.0	-102.00 ug/L	-102.00 ppb	02:50:27
3	Na 589.592 Radial†	-211.1	-4220.2	-1448.3 ug/L	-1448.3 ppb	02:50:07
3	Sr 421.552†	229.5	-1231.7	-9.2363 ug/L	-9.2363 ppb	02:50:07
3	Sc 361.383	799106.7	799106.7	106.36 %		02:51:24
3	Y 371.029	635735.1	635735.1	108.03 %		02:51:24
3	Ag 328.068†	276.1	-66.7	-0.3564 ug/L	-0.3564 ppb	02:51:24
3	As 188.979†	-22.2	-0.2	-0.0757 ug/L	-0.0757 ppb	02:51:44
3	B 249.677†	-227.1	228.4	5.6739 ug/L	5.6739 ppb	02:51:44
3	Ba 233.527†	56.3	-92.1	-0.7810 ug/L	-0.7810 ppb	02:51:44
3	Be 313.107†	-4595.7	34.9	0.0146 ug/L	0.0146 ppb	02:51:24
3	Cd 226.502†	-195.6	11.2	0.1532 ug/L	0.1532 ppb	02:51:44
3	Co 228.616†	-64.1	10.0	0.2202 ug/L	0.2202 ppb	02:51:44
3	Cr 267.716†	86.5	3.5	0.0409 ug/L	0.0409 ppb	02:51:44
3	Cu 324.752†	5813.0	-986.7	-3.0826 ug/L	-3.0826 ppb	02:51:24
3	Mn 257.610†	444.2	-53.7	-0.0614 ug/L	-0.0614 ppb	02:51:44
3	Mo 202.031†	18.2	7.1	0.5818 ug/L	0.5818 ppb	02:51:44
3	Ni 231.604†	82.1	-2.0	-0.0562 ug/L	-0.0562 ppb	02:51:44
3	P 214.914†	218.5	-5.7	-2.8247 ug/L	-2.8247 ppb	02:51:44
3	Pb 220.353†	-47.4	-65.4	-9.0806 ug/L	-9.0806 ppb	02:51:44
3	S 181.975 Axial†	41.7	1.9	2.6796 ug/L	2.6796 ppb	02:51:44
3	Sb 206.836†	39.5	0.8	0.3042 ug/L	0.3042 ppb	02:51:44
3	Se 196.026†	-25.8	5.1	3.3623 ug/L	3.3623 ppb	02:51:44
3	Si 251.611†	560.4	30.4	1.0107 ug/L	1.0107 ppb	02:51:44
3	Sn 189.927†	16.6	0.3	0.0554 ug/L	0.0554 ppb	02:51:44
3	Ti 334.940†	-1312.7	245.8	0.4093 ug/L	0.4093 ppb	02:51:24
3	Tl 190.801†	-23.8	10.1	3.4064 ug/L	3.4064 ppb	02:51:44
3	U 409.014†	-2856.3	377.5	13.744 ug/L	13.744 ppb	02:51:24
3	V 292.402†	-1589.7	198.0	1.6569 ug/L	1.6569 ppb	02:51:24
3	Zn 213.857†	629.0	-52.4	-0.5422 ug/L	-0.5422 ppb	02:51:44
3	SiO2†	590.4	62.9	4.4703 ug/L	4.4703 ppb	02:52:00

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	794248.4	105.71 %	0.641			0.61%
Sc Radial	3879.7	110 %	0.2			0.19%
Y 371.029	631924.2	107.39 %	0.706			0.66%
Y RADIAL	4356.3	108.9 %	2.38			2.18%
Ag 328.068†	-122.3	-0.6464 ug/L	0.25396	-0.6464 ppb	0.25396	39.29%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	17.2	16.719 ug/L	8.8174	16.719 ppb	8.8174	52.74%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.3	0.1566 ug/L	0.37324	0.1566 ppb	0.37324	238.35%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	220.8	5.4846 ug/L	0.42520	5.4846 ppb	0.42520	7.75%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-92.2	-0.7824 ug/L	0.17789	-0.7824 ppb	0.17789	22.74%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	46.5	0.0192 ug/L	0.00635	0.0192 ppb	0.00635	33.04%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-3.9	-8.4173 ug/L	1.45065	-8.4173 ppb	1.45065	17.23%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd	226.502†	15.9	0.2147 ug/L	0.08356	0.2147 ppb	0.08356	38.91%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co	228.616†	14.0	0.3072 ug/L	0.26157	0.3072 ppb	0.26157	85.16%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	-2.7	-0.0414 ug/L	0.12989	-0.0414 ppb	0.12989	314.02%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-884.9	-2.7659 ug/L	0.28049	-2.7659 ppb	0.28049	10.14%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	-1.7	-24.307 ug/L	6.5655	-24.307 ppb	6.5655	27.01%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	-566.9	-105.96 ug/L	9.002	-105.96 ppb	9.002	8.50%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-0.8	-39.848 ug/L	57.2961	-39.848 ppb	57.2961	143.79%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	-38.1	-0.0459 ug/L	0.02130	-0.0459 ppb	0.02130	46.45%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	6.9	0.5612 ug/L	0.38369	0.5612 ppb	0.38369	68.37%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	-4205.9	-1443.4 ug/L	12.08	-1443.4 ppb	12.08	0.84%
QC value less than the lower limit for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	-6.5	-0.1838 ug/L	0.11414	-0.1838 ppb	0.11414	62.11%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-5.9	-3.0287 ug/L	0.54031	-3.0287 ppb	0.54031	17.84%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	-66.2	-9.1879 ug/L	0.81789	-9.1879 ppb	0.81789	8.90%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	1.2	1.7353 ug/L	1.97927	1.7353 ppb	1.97927	114.06%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	4.0	1.4942 ug/L	1.57077	1.4942 ppb	1.57077	105.13%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	5.8	3.8753 ug/L	2.42680	3.8753 ppb	2.42680	62.62%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si	251.611†	32.5	1.0800 ug/L	0.11209	1.0800 ppb	0.11209	10.38%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	1.6	0.3303 ug/L	0.36321	0.3303 ppb	0.36321	109.96%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-1176.3	-8.8207 ug/L	0.53484	-8.8207 ppb	0.53484	6.06%
QC value less than the lower limit for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	264.0	0.4343 ug/L	0.02917	0.4343 ppb	0.02917	6.72%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	12.8	4.2971 ug/L	0.89380	4.2971 ppb	0.89380	20.80%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	386.0	14.052 ug/L	3.8492	14.052 ppb	3.8492	27.39%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	178.4	1.4980 ug/L	0.26123	1.4980 ppb	0.26123	17.44%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	-48.6	-0.5016 ug/L	0.06687	-0.5016 ppb	0.06687	13.33%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†		64.5	4.5850 ug/L	1.12572	4.5850 ppb	1.12572	24.55%
QC value within limits for SiO2 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 98

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/20/2010 03:36:10

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3936.9	3936.9	111 %		03:38:23
1	Y RADIAL	4476.2	4476.2	111.9 %		03:38:03
1	Al 396.153Radial†	5533.1	5084.1	4919.2 ug/L	4919.2 ppb	03:38:03
1	Ca 317.933Radial†	2564.7	2272.9	4965.2 ug/L	4965.2 ppb	03:38:23
1	Fe 238.204 Radial†	387.2	338.7	4914.8 ug/L	4914.8 ppb	03:38:23
1	K 766.490 Radial†	31617.4	25260.8	4740.8 ug/L	4740.8 ppb	03:38:03
1	Mg 279.077 IEC†	111.4	97.4	4951.2 ug/L	4951.2 ppb	03:38:23
1	Na 589.592 Radial†	32324.1	25012.5	8584.0 ug/L	8584.0 ppb	03:38:03
1	Sr 421.552†	73557.3	64642.1	484.69 ug/L	484.69 ppb	03:38:03
1	Sc 361.383	810318.6	810318.6	107.85 %		03:39:20
1	Y 371.029	636699.6	636699.6	108.20 %		03:39:20
1	Ag 328.068†	105349.2	97353.4	507.44 ug/L	507.44 ppb	03:39:26
1	As 188.979†	1103.8	1044.1	488.04 ug/L	488.04 ppb	03:39:46
1	B 249.677†	21068.3	19976.5	493.76 ug/L	493.76 ppb	03:39:26
1	Ba 233.527†	62748.0	58034.9	495.24 ug/L	495.24 ppb	03:39:26
1	Be 313.107†	1333110.0	1240415.6	487.84 ug/L	487.84 ppb	03:39:20
1	Cd 226.502†	40060.1	37338.9	493.54 ug/L	493.54 ppb	03:39:26
1	Co 228.616†	24219.9	22527.0	493.67 ug/L	493.67 ppb	03:39:26
1	Cr 267.716†	40574.6	37542.9	491.63 ug/L	491.63 ppb	03:39:26
1	Cu 324.752†	179487.0	159968.2	498.30 ug/L	498.30 ppb	03:39:26
1	Mn 257.610†	444675.1	411831.5	487.62 ug/L	487.62 ppb	03:39:20
1	Mo 202.031†	6446.8	5967.5	488.74 ug/L	488.74 ppb	03:39:46
1	Ni 231.604†	18688.4	17248.8	490.45 ug/L	490.45 ppb	03:39:26
1	P 214.914†	4440.5	3906.1	2289.6 ug/L	2289.6 ppb	03:39:46
1	Pb 220.353†	3743.5	3450.1	481.31 ug/L	481.31 ppb	03:39:46
1	S 181.975 Axial†	765.9	672.7	966.59 ug/L	966.59 ppb	03:39:46
1	Sb 206.836†	1487.4	1342.8	509.76 ug/L	509.76 ppb	03:39:46
1	Se 196.026†	742.4	717.7	505.28 ug/L	505.28 ppb	03:39:46
1	Si 251.611†	81366.4	74946.4	2503.5 ug/L	2503.5 ppb	03:39:26
1	Sn 189.927†	2631.2	2424.3	488.68 ug/L	488.68 ppb	03:39:46
1	Ti 334.940†	320867.0	298987.9	496.21 ug/L	496.21 ppb	03:39:20
1	Tl 190.801†	1552.5	1472.0	497.57 ug/L	497.57 ppb	03:39:46
1	U 409.014†	13294.2	15389.5	558.47 ug/L	558.47 ppb	03:39:26
1	V 292.402†	63779.5	60829.0	504.83 ug/L	504.83 ppb	03:39:26
1	Zn 213.857†	51628.6	47226.3	491.07 ug/L	491.07 ppb	03:39:26
1	SiO2†	80334.4	73993.8	5261.0 ug/L	5261.0 ppb	03:40:53
2	Sc Radial	3941.0	3941.0	111 %		03:38:48
2	Y RADIAL	4361.7	4361.7	109.1 %		03:38:28
2	Al 396.153Radial†	5411.0	4969.3	4807.4 ug/L	4807.4 ppb	03:38:28
2	Ca 317.933Radial†	2568.5	2273.8	4967.2 ug/L	4967.2 ppb	03:38:48
2	Fe 238.204 Radial†	390.6	341.4	4953.1 ug/L	4953.1 ppb	03:38:48
2	K 766.490 Radial†	30896.2	24583.6	4613.7 ug/L	4613.7 ppb	03:38:28
2	Mg 279.077 IEC†	111.3	97.3	4943.4 ug/L	4943.4 ppb	03:38:48
2	Na 589.592 Radial†	31457.8	24204.4	8306.7 ug/L	8306.7 ppb	03:38:28
2	Sr 421.552†	71395.1	62632.0	469.61 ug/L	469.61 ppb	03:38:28
2	Sc 361.383	807367.3	807367.3	107.46 %		03:39:52
2	Y 371.029	634850.1	634850.1	107.88 %		03:39:52
2	Ag 328.068†	104973.6	97361.0	507.51 ug/L	507.51 ppb	03:39:57
2	As 188.979†	1107.9	1051.6	491.54 ug/L	491.54 ppb	03:40:17
2	B 249.677†	20926.8	19916.3	492.26 ug/L	492.26 ppb	03:39:57
2	Ba 233.527†	62716.7	58218.4	496.81 ug/L	496.81 ppb	03:39:57
2	Be 313.107†	1333245.6	1245060.1	489.67 ug/L	489.67 ppb	03:39:52
2	Cd 226.502†	40153.7	37561.8	496.49 ug/L	496.49 ppb	03:39:57
2	Co 228.616†	24181.8	22573.7	494.70 ug/L	494.70 ppb	03:39:57
2	Cr 267.716†	40677.5	37776.2	494.69 ug/L	494.69 ppb	03:39:57
2	Cu 324.752†	177981.4	159175.4	495.84 ug/L	495.84 ppb	03:39:57
2	Mn 257.610†	443259.8	412021.6	487.85 ug/L	487.85 ppb	03:39:52
2	Mo 202.031†	6483.1	6023.2	493.30 ug/L	493.30 ppb	03:40:17
2	Ni 231.604†	18770.8	17388.8	494.43 ug/L	494.43 ppb	03:39:57

2	P 214.914†	4488.3	3965.6	2326.5 ug/L	2326.5 ppb	03:40:17
2	Pb 220.353†	3779.5	3496.3	487.71 ug/L	487.71 ppb	03:40:17
2	S 181.975 Axial†	780.9	689.3	990.44 ug/L	990.44 ppb	03:40:17
2	Sb 206.836†	1477.3	1338.4	508.39 ug/L	508.39 ppb	03:40:17
2	Se 196.026†	744.1	721.8	508.19 ug/L	508.19 ppb	03:40:17
2	Si 251.611†	80956.9	74841.2	2499.9 ug/L	2499.9 ppb	03:39:57
2	Sn 189.927†	2665.5	2465.2	496.91 ug/L	496.91 ppb	03:40:17
2	Ti 334.940†	320092.7	299354.8	496.83 ug/L	496.83 ppb	03:39:52
2	Tl 190.801†	1559.5	1483.8	501.51 ug/L	501.51 ppb	03:40:17
2	U 409.014†	12888.5	15057.0	546.35 ug/L	546.35 ppb	03:39:57
2	V 292.402†	63958.9	61212.2	508.00 ug/L	508.00 ppb	03:39:57
2	Zn 213.857†	51594.9	47369.9	492.55 ug/L	492.55 ppb	03:39:57
2	SiO2†	80424.2	74349.7	5286.3 ug/L	5286.3 ppb	03:40:59
3	Sc Radial	3921.9	3921.9	111 %		03:39:13
3	Y RADIAL	4365.6	4365.6	109.2 %		03:38:53
3	Al 396.153Radial†	5414.9	4996.5	4833.8 ug/L	4833.8 ppb	03:38:53
3	Ca 317.933Radial†	2572.9	2289.1	5000.5 ug/L	5000.5 ppb	03:39:13
3	Fe 238.204 Radial†	388.0	340.8	4943.9 ug/L	4943.9 ppb	03:39:13
3	K 766.490 Radial†	31096.1	24899.2	4672.9 ug/L	4672.9 ppb	03:38:53
3	Mg 279.077 IEC†	108.0	94.7	4813.2 ug/L	4813.2 ppb	03:39:13
3	Na 589.592 Radial†	31887.3	24729.6	8486.9 ug/L	8486.9 ppb	03:38:53
3	Sr 421.552†	72034.8	63521.6	476.28 ug/L	476.28 ppb	03:38:53
3	Sc 361.383	807781.6	807781.6	107.51 %		03:40:23
3	Y 371.029	634907.9	634907.9	107.89 %		03:40:23
3	Ag 328.068†	103460.6	95903.6	499.94 ug/L	499.94 ppb	03:40:28
3	As 188.979†	1119.5	1062.0	496.33 ug/L	496.33 ppb	03:40:48
3	B 249.677†	20494.9	19504.5	482.05 ug/L	482.05 ppb	03:40:28
3	Ba 233.527†	61917.1	57444.8	490.20 ug/L	490.20 ppb	03:40:28
3	Be 313.107†	1337233.9	1248133.5	490.88 ug/L	490.88 ppb	03:40:23
3	Cd 226.502†	39640.6	37065.4	489.92 ug/L	489.92 ppb	03:40:28
3	Co 228.616†	23877.9	22279.4	488.25 ug/L	488.25 ppb	03:40:28
3	Cr 267.716†	40093.8	37213.9	487.33 ug/L	487.33 ppb	03:40:28
3	Cu 324.752†	175129.7	156438.1	487.31 ug/L	487.31 ppb	03:40:28
3	Mn 257.610†	445743.3	414120.0	490.33 ug/L	490.33 ppb	03:40:23
3	Mo 202.031†	6506.0	6041.3	494.78 ug/L	494.78 ppb	03:40:48
3	Ni 231.604†	18536.2	17161.6	487.97 ug/L	487.97 ppb	03:40:28
3	P 214.914†	4482.9	3958.5	2323.9 ug/L	2323.9 ppb	03:40:48
3	Pb 220.353†	3789.4	3503.7	488.75 ug/L	488.75 ppb	03:40:48
3	S 181.975 Axial†	779.5	687.7	988.12 ug/L	988.12 ppb	03:40:48
3	Sb 206.836†	1488.1	1347.8	511.87 ug/L	511.87 ppb	03:40:48
3	Se 196.026†	746.2	723.3	509.24 ug/L	509.24 ppb	03:40:48
3	Si 251.611†	79658.7	73595.0	2458.1 ug/L	2458.1 ppb	03:40:28
3	Sn 189.927†	2687.5	2484.3	500.78 ug/L	500.78 ppb	03:40:48
3	Ti 334.940†	321103.1	300141.9	498.16 ug/L	498.16 ppb	03:40:23
3	Tl 190.801†	1575.1	1497.5	506.20 ug/L	506.20 ppb	03:40:48
3	U 409.014†	12514.5	14703.0	533.49 ug/L	533.49 ppb	03:40:28
3	V 292.402†	62956.6	60249.4	500.12 ug/L	500.12 ppb	03:40:28
3	Zn 213.857†	50885.1	46685.1	485.42 ug/L	485.42 ppb	03:40:28
3	SiO2†	79961.4	73880.9	5252.8 ug/L	5252.8 ppb	03:41:04

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	808489.2	107.61 %	0.213			0.20%
Sc Radial	3933.2	111 %	0.3			0.26%
Y 371.029	635485.9	107.99 %	0.179			0.17%
Y RADIAL	4401.2	110.1 %	1.63			1.48%
Ag 328.068†	96872.7	504.96 ug/L	4.353	504.96 ppb	4.353	0.86%
QC value within limits for Ag 328.068 Recovery = 100.99%						
Al 396.153Radial†	5016.7	4853.5 ug/L	58.46	4853.5 ppb	58.46	1.20%
QC value within limits for Al 396.153Radial Recovery = 97.07%						
As 188.979†	1052.6	491.97 ug/L	4.160	491.97 ppb	4.160	0.85%
QC value within limits for As 188.979 Recovery = 98.39%						
B 249.677†	19799.1	489.36 ug/L	6.369	489.36 ppb	6.369	1.30%
QC value within limits for B 249.677 Recovery = 97.87%						
Ba 233.527†	57899.4	494.08 ug/L	3.449	494.08 ppb	3.449	0.70%
QC value within limits for Ba 233.527 Recovery = 98.82%						
Be 313.107†	1244536.4	489.46 ug/L	1.527	489.46 ppb	1.527	0.31%
QC value within limits for Be 313.107 Recovery = 97.89%						
Ca 317.933Radial†	2278.6	4977.6 ug/L	19.86	4977.6 ppb	19.86	0.40%

QC value within limits for Ca 317.933 Radial Recovery = 99.55%							
Cd	226.502†	37322.0	493.32 ug/L	3.290	493.32 ppb	3.290	0.67%
QC value within limits for Cd 226.502 Recovery = 98.66%							
Co	228.616†	22460.0	492.21 ug/L	3.463	492.21 ppb	3.463	0.70%
QC value within limits for Co 228.616 Recovery = 98.44%							
Cr	267.716†	37511.0	491.22 ug/L	3.695	491.22 ppb	3.695	0.75%
QC value within limits for Cr 267.716 Recovery = 98.24%							
Cu	324.752†	158527.2	493.82 ug/L	5.763	493.82 ppb	5.763	1.17%
QC value within limits for Cu 324.752 Recovery = 98.76%							
Fe	238.204 Radial†	340.3	4937.3 ug/L	20.03	4937.3 ppb	20.03	0.41%
QC value within limits for Fe 238.204 Radial Recovery = 98.75%							
K	766.490 Radial†	24914.5	4675.8 ug/L	63.62	4675.8 ppb	63.62	1.36%
QC value within limits for K 766.490 Radial Recovery = 93.52%							
Mg	279.077 IEC†	96.5	4902.6 ug/L	77.55	4902.6 ppb	77.55	1.58%
QC value within limits for Mg 279.077 IEC Recovery = 98.05%							
Mn	257.610†	412657.7	488.60 ug/L	1.507	488.60 ppb	1.507	0.31%
QC value within limits for Mn 257.610 Recovery = 97.72%							
Mo	202.031†	6010.7	492.27 ug/L	3.149	492.27 ppb	3.149	0.64%
QC value within limits for Mo 202.031 Recovery = 98.45%							
Na	589.592 Radial†	24648.8	8459.2 ug/L	140.72	8459.2 ppb	140.72	1.66%
QC value less than the lower limit for Na 589.592 Radial Recovery = 84.59%							
Ni	231.604†	17266.4	490.95 ug/L	3.259	490.95 ppb	3.259	0.66%
QC value within limits for Ni 231.604 Recovery = 98.19%							
P	214.914†	3943.4	2313.3 ug/L	20.57	2313.3 ppb	20.57	0.89%
QC value within limits for P 214.914 Recovery = 92.53%							
Pb	220.353†	3483.4	485.92 ug/L	4.030	485.92 ppb	4.030	0.83%
QC value within limits for Pb 220.353 Recovery = 97.18%							
S	181.975 Axial†	683.2	981.72 ug/L	13.152	981.72 ppb	13.152	1.34%
QC value within limits for S 181.975 Axial Recovery = 98.17%							
Sb	206.836†	1343.0	510.01 ug/L	1.755	510.01 ppb	1.755	0.34%
QC value within limits for Sb 206.836 Recovery = 102.00%							
Se	196.026†	720.9	507.57 ug/L	2.052	507.57 ppb	2.052	0.40%
QC value within limits for Se 196.026 Recovery = 101.51%							
Si	251.611†	74460.9	2487.2 ug/L	25.20	2487.2 ppb	25.20	1.01%
QC value within limits for Si 251.611 Recovery = 99.49%							
Sn	189.927†	2457.9	495.46 ug/L	6.175	495.46 ppb	6.175	1.25%
QC value within limits for Sn 189.927 Recovery = 99.09%							
Sr	421.552†	63598.6	476.86 ug/L	7.553	476.86 ppb	7.553	1.58%
QC value within limits for Sr 421.552 Recovery = 95.37%							
Ti	334.940†	299494.9	497.06 ug/L	0.994	497.06 ppb	0.994	0.20%
QC value within limits for Ti 334.940 Recovery = 99.41%							
Tl	190.801†	1484.5	501.76 ug/L	4.320	501.76 ppb	4.320	0.86%
QC value within limits for Tl 190.801 Recovery = 100.35%							
U	409.014†	15049.8	546.10 ug/L	12.492	546.10 ppb	12.492	2.29%
QC value within limits for U 409.014 Recovery = 109.22%							
V	292.402†	60763.5	504.32 ug/L	3.969	504.32 ppb	3.969	0.79%
QC value within limits for V 292.402 Recovery = 100.86%							
Zn	213.857†	47093.8	489.68 ug/L	3.764	489.68 ppb	3.764	0.77%
QC value within limits for Zn 213.857 Recovery = 97.94%							
SiO2†		74074.8	5266.7 ug/L	17.44	5266.7 ppb	17.44	0.33%
QC value within limits for SiO2 Recovery = 98.49%							
QC Failed. Continue with analysis.							

Sequence No.: 99
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 2/20/2010 03:43:13
 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	3935.0	3935.0	111 %		03:45:26
1	Y RADIAL	4486.7	4486.7	112.2 %		03:45:06
1	Al 396.153Radial†	-109.6	14.7	14.299 ug/L	14.299 ppb	03:45:26
1	Ca 317.933Radial†	37.3	2.3	5.0699 ug/L	5.0699 ppb	03:45:26
1	Fe 238.204 Radial†	10.0	-0.1	-2.0374 ug/L	-2.0374 ppb	03:45:26
1	K 766.490 Radial†	2842.7	-589.1	-110.15 ug/L	-110.15 ppb	03:45:06
1	Mg 279.077 IEC†	0.9	-1.9	-95.539 ug/L	-95.539 ppb	03:45:26
1	Na 589.592 Radial†	-20.9	-4046.1	-1388.6 ug/L	-1388.6 ppb	03:45:06
1	Sr 421.552†	369.2	-1109.6	-8.3205 ug/L	-8.3205 ppb	03:45:06
1	Sc 361.383	796832.9	796832.9	106.06 %		03:46:23
1	Y 371.029	634286.6	634286.6	107.79 %		03:46:23
1	Ag 328.068†	126.6	-207.0	-1.0777 ug/L	-1.0777 ppb	03:46:23
1	As 188.979†	-21.8	0.1	0.0446 ug/L	0.0446 ppb	03:46:43
1	B 249.677†	-162.8	288.4	7.1598 ug/L	7.1598 ppb	03:46:43
1	Ba 233.527†	54.0	-94.1	-0.7981 ug/L	-0.7981 ppb	03:46:43
1	Be 313.107†	-4644.6	-23.5	-0.0080 ug/L	-0.0080 ppb	03:46:23
1	Cd 226.502†	-180.5	25.0	0.3327 ug/L	0.3327 ppb	03:46:43
1	Co 228.616†	-53.7	19.7	0.4308 ug/L	0.4308 ppb	03:46:43
1	Cr 267.716†	89.1	6.2	0.0780 ug/L	0.0780 ppb	03:46:43
1	Cu 324.752†	5983.0	-810.8	-2.5329 ug/L	-2.5329 ppb	03:46:23
1	Mn 257.610†	465.2	-32.7	-0.0350 ug/L	-0.0350 ppb	03:46:43
1	Mo 202.031†	16.9	6.0	0.4906 ug/L	0.4906 ppb	03:46:43
1	Ni 231.604†	97.6	12.9	0.3667 ug/L	0.3667 ppb	03:46:43
1	P 214.914†	208.7	-14.4	-8.2492 ug/L	-8.2492 ppb	03:46:43
1	Pb 220.353†	-52.5	-70.4	-9.7696 ug/L	-9.7696 ppb	03:46:43
1	S 181.975 Axial†	43.3	3.4	4.9455 ug/L	4.9455 ppb	03:46:43
1	Sb 206.836†	32.1	-6.1	-2.1890 ug/L	-2.1890 ppb	03:46:43
1	Se 196.026†	-22.2	8.3	5.6461 ug/L	5.6461 ppb	03:46:43
1	Si 251.611†	569.0	40.0	1.3334 ug/L	1.3334 ppb	03:46:43
1	Sn 189.927†	25.9	9.1	1.8284 ug/L	1.8284 ppb	03:46:43
1	Ti 334.940†	-1228.1	322.0	0.5376 ug/L	0.5376 ppb	03:46:23
1	Tl 190.801†	-24.6	9.3	3.1311 ug/L	3.1311 ppb	03:46:43
1	U 409.014†	-2890.9	337.3	12.276 ug/L	12.276 ppb	03:46:23
1	V 292.402†	-1621.7	163.6	1.3684 ug/L	1.3684 ppb	03:46:23
1	Zn 213.857†	678.1	-4.4	-0.0447 ug/L	-0.0447 ppb	03:46:43
1	SiO2†	544.7	21.4	1.5138 ug/L	1.5138 ppb	03:47:39
2	Sc Radial	3914.6	3914.6	111 %		03:45:51
2	Y RADIAL	4436.2	4436.2	110.9 %		03:45:31
2	Al 396.153Radial†	-110.1	13.7	13.319 ug/L	13.319 ppb	03:45:51
2	Ca 317.933Radial†	34.0	-0.6	-1.2368 ug/L	-1.2368 ppb	03:45:51
2	Fe 238.204 Radial†	9.2	-0.9	-12.530 ug/L	-12.530 ppb	03:45:51
2	K 766.490 Radial†	2894.8	-528.7	-98.781 ug/L	-98.781 ppb	03:45:31
2	Mg 279.077 IEC†	-1.4	-4.0	-201.29 ug/L	-201.29 ppb	03:45:51
2	Na 589.592 Radial†	-134.1	-4148.5	-1423.7 ug/L	-1423.7 ppb	03:45:31
2	Sr 421.552†	267.7	-1199.6	-8.9950 ug/L	-8.9950 ppb	03:45:31
2	Sc 361.383	792103.5	792103.5	105.43 %		03:46:48
2	Y 371.029	631336.5	631336.5	107.29 %		03:46:48
2	Ag 328.068†	277.2	-63.5	-0.3383 ug/L	-0.3383 ppb	03:46:48
2	As 188.979†	-28.4	-6.2	-2.8801 ug/L	-2.8801 ppb	03:47:08
2	B 249.677†	-204.4	248.1	6.1615 ug/L	6.1615 ppb	03:47:08
2	Ba 233.527†	50.3	-97.4	-0.8259 ug/L	-0.8259 ppb	03:47:08
2	Be 313.107†	-4515.0	73.2	0.0295 ug/L	0.0295 ppb	03:46:48
2	Cd 226.502†	-180.0	24.5	0.3271 ug/L	0.3271 ppb	03:47:08
2	Co 228.616†	-54.4	18.7	0.4095 ug/L	0.4095 ppb	03:47:08
2	Cr 267.716†	85.8	3.6	0.0417 ug/L	0.0417 ppb	03:47:08
2	Cu 324.752†	6004.1	-757.2	-2.3674 ug/L	-2.3674 ppb	03:46:48
2	Mn 257.610†	466.0	-29.3	-0.0277 ug/L	-0.0277 ppb	03:47:08
2	Mo 202.031†	17.7	6.9	0.5603 ug/L	0.5603 ppb	03:47:08
2	Ni 231.604†	66.0	-16.5	-0.4706 ug/L	-0.4706 ppb	03:47:08

2	P 214.914†	215.1	-7.1	-3.8255 ug/L	-3.8255 ppb	03:47:08
2	Pb 220.353†	-53.8	-71.9	-9.9850 ug/L	-9.9850 ppb	03:47:08
2	S 181.975 Axial†	44.0	4.4	6.2539 ug/L	6.2539 ppb	03:47:08
2	Sb 206.836†	26.4	-11.3	-4.1139 ug/L	-4.1139 ppb	03:47:08
2	Se 196.026†	-23.7	6.8	4.5578 ug/L	4.5578 ppb	03:47:08
2	Si 251.611†	565.8	40.2	1.3390 ug/L	1.3390 ppb	03:47:08
2	Sn 189.927†	21.2	4.7	0.9538 ug/L	0.9538 ppb	03:47:08
2	Ti 334.940†	-1336.5	212.3	0.3625 ug/L	0.3625 ppb	03:46:48
2	Tl 190.801†	-24.2	9.6	3.2221 ug/L	3.2221 ppb	03:47:08
2	U 409.014†	-2822.3	386.0	14.052 ug/L	14.052 ppb	03:46:48
2	V 292.402†	-1600.7	174.4	1.4610 ug/L	1.4610 ppb	03:46:48
2	Zn 213.857†	659.3	-18.4	-0.1848 ug/L	-0.1848 ppb	03:47:08
2	SiO2†	549.4	28.9	2.0427 ug/L	2.0427 ppb	03:47:44
3	Sc Radial	3948.3	3948.3	112 %		03:46:16
3	Y RADIAL	4457.8	4457.8	111.5 %		03:45:56
3	Al 396.153Radial†	-112.7	12.3	11.863 ug/L	11.863 ppb	03:46:16
3	Ca 317.933Radial†	36.9	1.8	3.8650 ug/L	3.8650 ppb	03:46:16
3	Fe 238.204 Radial†	8.1	-1.9	-26.892 ug/L	-26.892 ppb	03:46:16
3	K 766.490 Radial†	2940.3	-510.2	-95.327 ug/L	-95.327 ppb	03:45:56
3	Mg 279.077 IEC†	0.2	-2.5	-125.66 ug/L	-125.66 ppb	03:46:16
3	Na 589.592 Radial†	-121.7	-4136.4	-1419.6 ug/L	-1419.6 ppb	03:45:56
3	Sr 421.552†	258.2	-1210.1	-9.0739 ug/L	-9.0739 ppb	03:45:56
3	Sc 361.383	796102.9	796102.9	105.96 %		03:47:14
3	Y 371.029	632995.2	632995.2	107.57 %		03:47:14
3	Ag 328.068†	276.5	-65.4	-0.3582 ug/L	-0.3582 ppb	03:47:14
3	As 188.979†	-24.8	-2.7	-1.2540 ug/L	-1.2540 ppb	03:47:34
3	B 249.677†	-223.6	231.0	5.7384 ug/L	5.7384 ppb	03:47:34
3	Ba 233.527†	56.1	-92.1	-0.7815 ug/L	-0.7815 ppb	03:47:34
3	Be 313.107†	-4588.8	25.1	0.0108 ug/L	0.0108 ppb	03:47:14
3	Cd 226.502†	-195.1	11.0	0.1516 ug/L	0.1516 ppb	03:47:34
3	Co 228.616†	-60.4	13.3	0.2935 ug/L	0.2935 ppb	03:47:34
3	Cr 267.716†	72.7	-9.2	-0.1295 ug/L	-0.1295 ppb	03:47:34
3	Cu 324.752†	6016.9	-773.7	-2.4229 ug/L	-2.4229 ppb	03:47:14
3	Mn 257.610†	475.5	-22.6	-0.0242 ug/L	-0.0242 ppb	03:47:34
3	Mo 202.031†	27.1	15.6	1.2777 ug/L	1.2777 ppb	03:47:34
3	Ni 231.604†	73.5	-9.8	-0.2794 ug/L	-0.2794 ppb	03:47:34
3	P 214.914†	210.6	-12.4	-7.0537 ug/L	-7.0537 ppb	03:47:34
3	Pb 220.353†	-50.1	-68.2	-9.4575 ug/L	-9.4575 ppb	03:47:34
3	S 181.975 Axial†	43.8	4.0	5.7294 ug/L	5.7294 ppb	03:47:34
3	Sb 206.836†	35.8	-2.6	-0.8969 ug/L	-0.8969 ppb	03:47:34
3	Se 196.026†	-18.9	11.5	7.6899 ug/L	7.6899 ppb	03:47:34
3	Si 251.611†	560.8	32.7	1.0807 ug/L	1.0807 ppb	03:47:34
3	Sn 189.927†	21.6	5.0	1.0158 ug/L	1.0158 ppb	03:47:34
3	Ti 334.940†	-1289.8	262.7	0.4381 ug/L	0.4381 ppb	03:47:14
3	Tl 190.801†	-27.9	6.2	2.0845 ug/L	2.0845 ppb	03:47:34
3	U 409.014†	-2656.4	556.1	20.244 ug/L	20.244 ppb	03:47:14
3	V 292.402†	-1622.5	161.5	1.3804 ug/L	1.3804 ppb	03:47:14
3	Zn 213.857†	669.5	-11.9	-0.1158 ug/L	-0.1158 ppb	03:47:34
3	SiO2†	584.6	59.5	4.2044 ug/L	4.2044 ppb	03:47:49

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	795013.1	105.81 %	0.339			0.32%
Sc Radial	3932.6	111 %	0.5			0.43%
Y 371.029	632872.8	107.55 %	0.251			0.23%
Y RADIAL	4460.2	111.5 %	0.63			0.57%
Ag 328.068†	-111.9	-0.5914 ug/L	0.42125	-0.5914 ppb	0.42125	71.23%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	13.6	13.160 ug/L	1.2259	13.160 ppb	1.2259	9.32%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.9	-1.3632 ug/L	1.46536	-1.3632 ppb	1.46536	107.50%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	255.8	6.3533 ug/L	0.72985	6.3533 ppb	0.72985	11.49%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-94.5	-0.8018 ug/L	0.02245	-0.8018 ppb	0.02245	2.80%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	24.9	0.0108 ug/L	0.01878	0.0108 ppb	0.01878	174.14%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1.2	2.5661 ug/L	3.34798	2.5661 ppb	3.34798	130.47%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	20.1	0.2705 ug/L	0.10299	0.2705 ppb	0.10299	38.08%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	17.2	0.3779 ug/L	0.07387	0.3779 ppb	0.07387	19.55%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	0.2	-0.0033 ug/L	0.11080	-0.0033 ppb	0.11080	>999.9%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-780.6	-2.4410 ug/L	0.08422	-2.4410 ppb	0.08422	3.45%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.0	-13.820 ug/L	12.4774	-13.820 ppb	12.4774	90.29%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-542.7	-101.42 ug/L	7.756	-101.42 ppb	7.756	7.65%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-2.8	-140.83 ug/L	54.481	-140.83 ppb	54.481	38.69%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-28.2	-0.0290 ug/L	0.00552	-0.0290 ppb	0.00552	19.07%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	9.5	0.7762 ug/L	0.43572	0.7762 ppb	0.43572	56.14%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-4110.3	-1410.6 ug/L	19.20	-1410.6 ppb	19.20	1.36%	
QC value less than the lower limit for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-4.5	-0.1278 ug/L	0.43876	-0.1278 ppb	0.43876	343.42%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-11.3	-6.3762 ug/L	2.28835	-6.3762 ppb	2.28835	35.89%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-70.2	-9.7374 ug/L	0.26523	-9.7374 ppb	0.26523	2.72%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	3.9	5.6429 ug/L	0.65849	5.6429 ppb	0.65849	11.67%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-6.6	-2.4000 ug/L	1.61885	-2.4000 ppb	1.61885	67.45%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	8.9	5.9646 ug/L	1.59018	5.9646 ppb	1.59018	26.66%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	37.6	1.2510 ug/L	0.14757	1.2510 ppb	0.14757	11.80%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	6.3	1.2660 ug/L	0.48803	1.2660 ppb	0.48803	38.55%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-1173.1	-8.7965 ug/L	0.41407	-8.7965 ppb	0.41407	4.71%	
QC value less than the lower limit for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	265.7	0.4461 ug/L	0.08779	0.4461 ppb	0.08779	19.68%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	8.4	2.8126 ug/L	0.63217	2.8126 ppb	0.63217	22.48%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	426.5	15.524 ug/L	4.1827	15.524 ppb	4.1827	26.94%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	166.5	1.4033 ug/L	0.05035	1.4033 ppb	0.05035	3.59%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-11.6	-0.1151 ug/L	0.07010	-0.1151 ppb	0.07010	60.90%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	36.6	2.5870 ug/L	1.42546	2.5870 ppb	1.42546	55.10%	
QC value within limits for SiO2 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 105
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 2/20/2010 04:27:14
 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	3883.6	3883.6	110 %		04:29:26
1	Y RADIAL	4393.5	4393.5	109.9 %		04:29:06
1	Al 396.153Radial†	5443.3	5070.5	4905.9 ug/L	4905.9 ppb	04:29:06
1	Ca 317.933Radial†	2533.3	2275.9	4971.7 ug/L	4971.7 ppb	04:29:26
1	Fe 238.204 Radial†	382.8	339.5	4925.5 ug/L	4925.5 ppb	04:29:26
1	K 766.490 Radial†	31389.9	25443.1	4775.1 ug/L	4775.1 ppb	04:29:06
1	Mg 279.077 IEC†	108.8	96.5	4902.5 ug/L	4902.5 ppb	04:29:26
1	Na 589.592 Radial†	31587.1	24739.5	8490.3 ug/L	8490.3 ppb	04:29:06
1	Sr 421.552†	72534.2	64616.4	484.49 ug/L	484.49 ppb	04:29:06
1	Sc 361.383	796285.2	796285.2	105.98 %		04:30:23
1	Y 371.029	624503.9	624503.9	106.12 %		04:30:23
1	Ag 328.068†	103110.5	96962.6	505.42 ug/L	505.42 ppb	04:30:28
1	As 188.979†	1107.5	1065.6	497.94 ug/L	497.94 ppb	04:30:48
1	B 249.677†	20273.9	19571.2	483.70 ug/L	483.70 ppb	04:30:28
1	Ba 233.527†	61336.9	57728.8	492.63 ug/L	492.63 ppb	04:30:28
1	Be 313.107†	1311790.1	1242083.3	488.48 ug/L	488.48 ppb	04:30:23
1	Cd 226.502†	39101.8	37089.3	490.24 ug/L	490.24 ppb	04:30:28
1	Co 228.616†	23719.5	22450.7	492.02 ug/L	492.02 ppb	04:30:28
1	Cr 267.716†	39777.1	37453.5	490.46 ug/L	490.46 ppb	04:30:28
1	Cu 324.752†	175345.0	158993.0	495.27 ug/L	495.27 ppb	04:30:28
1	Mn 257.610†	437635.6	412455.7	488.36 ug/L	488.36 ppb	04:30:23
1	Mo 202.031†	6352.6	5984.0	490.09 ug/L	490.09 ppb	04:30:48
1	Ni 231.604†	18348.8	17233.7	490.02 ug/L	490.02 ppb	04:30:28
1	P 214.914†	4392.0	3932.9	2306.6 ug/L	2306.6 ppb	04:30:48
1	Pb 220.353†	3686.3	3457.3	482.31 ug/L	482.31 ppb	04:30:48
1	S 181.975 Axial†	772.7	691.7	993.84 ug/L	993.84 ppb	04:30:48
1	Sb 206.836†	1478.9	1359.0	515.81 ug/L	515.81 ppb	04:30:48
1	Se 196.026†	737.7	725.3	510.52 ug/L	510.52 ppb	04:30:48
1	Si 251.611†	79725.6	74727.8	2496.1 ug/L	2496.1 ppb	04:30:28
1	Sn 189.927†	2604.1	2441.7	492.19 ug/L	492.19 ppb	04:30:48
1	Ti 334.940†	309559.7	293562.2	487.22 ug/L	487.22 ppb	04:30:28
1	Tl 190.801†	1539.8	1485.4	502.01 ug/L	502.01 ppb	04:30:48
1	U 409.014†	12611.5	14962.6	542.93 ug/L	542.93 ppb	04:30:28
1	V 292.402†	62466.9	60632.7	503.22 ug/L	503.22 ppb	04:30:28
1	Zn 213.857†	50434.2	46942.9	488.11 ug/L	488.11 ppb	04:30:28
1	SiO2†	79829.3	74830.0	5320.6 ug/L	5320.6 ppb	04:31:56
2	Sc Radial	3883.9	3883.9	110 %		04:29:51
2	Y RADIAL	4400.9	4400.9	110.1 %		04:29:31
2	Al 396.153Radial†	5464.9	5089.8	4924.6 ug/L	4924.6 ppb	04:29:31
2	Ca 317.933Radial†	2544.8	2286.1	4994.1 ug/L	4994.1 ppb	04:29:51
2	Fe 238.204 Radial†	386.6	342.9	4974.6 ug/L	4974.6 ppb	04:29:51
2	K 766.490 Radial†	31689.3	25713.2	4825.9 ug/L	4825.9 ppb	04:29:31
2	Mg 279.077 IEC†	110.6	98.1	4983.3 ug/L	4983.3 ppb	04:29:51
2	Na 589.592 Radial†	31854.3	24980.3	8573.0 ug/L	8573.0 ppb	04:29:31
2	Sr 421.552†	72879.2	64925.0	486.81 ug/L	486.81 ppb	04:29:31
2	Sc 361.383	797924.3	797924.3	106.20 %		04:30:54
2	Y 371.029	627116.2	627116.2	106.57 %		04:30:54
2	Ag 328.068†	103358.5	96996.3	505.61 ug/L	505.61 ppb	04:30:59
2	As 188.979†	1112.1	1067.8	498.95 ug/L	498.95 ppb	04:31:19
2	B 249.677†	20437.0	19685.5	486.54 ug/L	486.54 ppb	04:30:59
2	Ba 233.527†	61523.5	57785.7	493.11 ug/L	493.11 ppb	04:30:59
2	Be 313.107†	1316482.5	1243959.1	489.21 ug/L	489.21 ppb	04:30:54
2	Cd 226.502†	39230.8	37135.0	490.84 ug/L	490.84 ppb	04:30:59
2	Co 228.616†	23705.3	22391.3	490.72 ug/L	490.72 ppb	04:30:59
2	Cr 267.716†	39833.2	37429.2	490.15 ug/L	490.15 ppb	04:30:59
2	Cu 324.752†	176001.8	159271.5	496.14 ug/L	496.14 ppb	04:30:59
2	Mn 257.610†	437894.6	411851.3	487.64 ug/L	487.64 ppb	04:30:54
2	Mo 202.031†	6397.1	6013.5	492.51 ug/L	492.51 ppb	04:31:19
2	Ni 231.604†	18400.2	17246.5	490.38 ug/L	490.38 ppb	04:30:59

2	P 214.914†	4422.7	3953.3	2318.9 ug/L	2318.9 ppb	04:31:19
2	Pb 220.353†	3706.4	3469.1	483.95 ug/L	483.95 ppb	04:31:19
2	S 181.975 Axial†	778.4	695.6	999.45 ug/L	999.45 ppb	04:31:19
2	Sb 206.836†	1469.4	1347.2	511.56 ug/L	511.56 ppb	04:31:19
2	Se 196.026†	753.1	738.4	519.58 ug/L	519.58 ppb	04:31:19
2	Si 251.611†	79837.8	74679.0	2494.5 ug/L	2494.5 ppb	04:30:59
2	Sn 189.927†	2616.5	2448.4	493.53 ug/L	493.53 ppb	04:31:19
2	Ti 334.940†	310158.5	293526.0	487.15 ug/L	487.15 ppb	04:30:59
2	Tl 190.801†	1542.4	1484.8	501.81 ug/L	501.81 ppb	04:31:19
2	U 409.014†	12685.1	15007.4	544.56 ug/L	544.56 ppb	04:30:59
2	V 292.402†	62577.6	60615.9	503.12 ug/L	503.12 ppb	04:30:59
2	Zn 213.857†	50624.2	47024.1	488.95 ug/L	488.95 ppb	04:30:59
2	SiO2†	79958.8	74797.2	5318.2 ug/L	5318.2 ppb	04:32:01
3	Sc Radial	3856.1	3856.1	109 %		04:30:16
3	Y RADIAL	4231.3	4231.3	105.8 %		04:29:56
3	Al 396.153Radial†	5286.5	4962.1	4800.4 ug/L	4800.4 ppb	04:29:56
3	Ca 317.933Radial†	2512.9	2273.7	4966.8 ug/L	4966.8 ppb	04:30:16
3	Fe 238.204 Radial†	381.8	341.1	4948.7 ug/L	4948.7 ppb	04:30:16
3	K 766.490 Radial†	30659.4	24977.1	4687.7 ug/L	4687.7 ppb	04:29:56
3	Mg 279.077 IEC†	108.5	96.9	4922.1 ug/L	4922.1 ppb	04:30:16
3	Na 589.592 Radial†	30627.5	24064.6	8258.7 ug/L	8258.7 ppb	04:29:56
3	Sr 421.552†	69818.4	62596.9	469.35 ug/L	469.35 ppb	04:29:56
3	Sc 361.383	799600.4	799600.4	106.43 %		04:31:25
3	Y 371.029	627815.5	627815.5	106.69 %		04:31:25
3	Ag 328.068†	103577.6	96998.2	505.61 ug/L	505.61 ppb	04:31:30
3	As 188.979†	1108.3	1062.0	496.27 ug/L	496.27 ppb	04:31:50
3	B 249.677†	20551.7	19752.9	488.21 ug/L	488.21 ppb	04:31:30
3	Ba 233.527†	61590.2	57726.9	492.61 ug/L	492.61 ppb	04:31:30
3	Be 313.107†	1321971.8	1246518.6	490.22 ug/L	490.22 ppb	04:31:25
3	Cd 226.502†	39408.1	37224.1	492.02 ug/L	492.02 ppb	04:31:30
3	Co 228.616†	23850.0	22480.5	492.68 ug/L	492.68 ppb	04:31:30
3	Cr 267.716†	40003.2	37510.3	491.21 ug/L	491.21 ppb	04:31:30
3	Cu 324.752†	176107.9	159023.9	495.36 ug/L	495.36 ppb	04:31:30
3	Mn 257.610†	440029.0	412992.6	488.99 ug/L	488.99 ppb	04:31:25
3	Mo 202.031†	6411.2	6014.2	492.56 ug/L	492.56 ppb	04:31:50
3	Ni 231.604†	18470.7	17276.5	491.24 ug/L	491.24 ppb	04:31:30
3	P 214.914†	4403.0	3926.1	2302.4 ug/L	2302.4 ppb	04:31:50
3	Pb 220.353†	3737.0	3490.5	486.90 ug/L	486.90 ppb	04:31:50
3	S 181.975 Axial†	773.9	689.8	991.17 ug/L	991.17 ppb	04:31:50
3	Sb 206.836†	1475.9	1350.4	512.70 ug/L	512.70 ppb	04:31:50
3	Se 196.026†	749.5	733.6	516.18 ug/L	516.18 ppb	04:31:50
3	Si 251.611†	79806.8	74492.2	2488.2 ug/L	2488.2 ppb	04:31:30
3	Sn 189.927†	2608.2	2435.4	490.91 ug/L	490.91 ppb	04:31:50
3	Ti 334.940†	310923.5	293632.7	487.33 ug/L	487.33 ppb	04:31:30
3	Tl 190.801†	1527.8	1468.1	496.19 ug/L	496.19 ppb	04:31:50
3	U 409.014†	12749.5	15042.9	545.85 ug/L	545.85 ppb	04:31:30
3	V 292.402†	62749.2	60653.7	503.43 ug/L	503.43 ppb	04:31:30
3	Zn 213.857†	50770.6	47061.8	489.34 ug/L	489.34 ppb	04:31:30
3	SiO2†	80461.4	75111.6	5340.6 ug/L	5340.6 ppb	04:32:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	797936.6	106.20 %	0.221			0.21%
Sc Radial	3874.5	110 %	0.5			0.41%
Y 371.029	626478.5	106.46 %	0.297			0.28%
Y RADIAL	4341.9	108.6 %	2.40			2.21%
Ag 328.068†	96985.7	505.55 ug/L	0.109	505.55 ppb	0.109	0.02%
QC value within limits for Ag 328.068 Recovery = 101.11%						
Al 396.153Radial†	5040.8	4877.0 ug/L	66.94	4877.0 ppb	66.94	1.37%
QC value within limits for Al 396.153Radial Recovery = 97.54%						
As 188.979†	1065.2	497.72 ug/L	1.353	497.72 ppb	1.353	0.27%
QC value within limits for As 188.979 Recovery = 99.54%						
B 249.677†	19669.9	486.15 ug/L	2.277	486.15 ppb	2.277	0.47%
QC value within limits for B 249.677 Recovery = 97.23%						
Ba 233.527†	57747.1	492.79 ug/L	0.285	492.79 ppb	0.285	0.06%
QC value within limits for Ba 233.527 Recovery = 98.56%						
Be 313.107†	1244187.0	489.30 ug/L	0.874	489.30 ppb	0.874	0.18%
QC value within limits for Be 313.107 Recovery = 97.86%						
Ca 317.933Radial†	2278.6	4977.5 ug/L	14.56	4977.5 ppb	14.56	0.29%

QC value within limits for Ca 317.933 Radial Recovery = 99.55%

Cd 226.502†	37149.5	491.03 ug/L	0.906	491.03 ppb	0.906	0.18%
QC value within limits for Cd 226.502 Recovery = 98.21%						
Co 228.616†	22440.8	491.81 ug/L	0.994	491.81 ppb	0.994	0.20%
QC value within limits for Co 228.616 Recovery = 98.36%						
Cr 267.716†	37464.3	490.61 ug/L	0.543	490.61 ppb	0.543	0.11%
QC value within limits for Cr 267.716 Recovery = 98.12%						
Cu 324.752†	159096.1	495.59 ug/L	0.477	495.59 ppb	0.477	0.10%
QC value within limits for Cu 324.752 Recovery = 99.12%						
Fe 238.204 Radial†	341.1	4949.6 ug/L	24.60	4949.6 ppb	24.60	0.50%
QC value within limits for Fe 238.204 Radial Recovery = 98.99%						
K 766.490 Radial†	25377.8	4762.9 ug/L	69.91	4762.9 ppb	69.91	1.47%
QC value within limits for K 766.490 Radial Recovery = 95.26%						
Mg 279.077 IEC†	97.1	4936.0 ug/L	42.16	4936.0 ppb	42.16	0.85%
QC value within limits for Mg 279.077 IEC Recovery = 98.72%						
Mn 257.610†	412433.2	488.33 ug/L	0.676	488.33 ppb	0.676	0.14%
QC value within limits for Mn 257.610 Recovery = 97.67%						
Mo 202.031†	6003.9	491.72 ug/L	1.412	491.72 ppb	1.412	0.29%
QC value within limits for Mo 202.031 Recovery = 98.34%						
Na 589.592 Radial†	24594.8	8440.7 ug/L	162.92	8440.7 ppb	162.92	1.93%
QC value less than the lower limit for Na 589.592 Radial Recovery = 84.41%						
Ni 231.604†	17252.2	490.55 ug/L	0.625	490.55 ppb	0.625	0.13%
QC value within limits for Ni 231.604 Recovery = 98.11%						
P 214.914†	3937.4	2309.3 ug/L	8.56	2309.3 ppb	8.56	0.37%
QC value within limits for P 214.914 Recovery = 92.37%						
Pb 220.353†	3472.3	484.39 ug/L	2.324	484.39 ppb	2.324	0.48%
QC value within limits for Pb 220.353 Recovery = 96.88%						
S 181.975 Axial†	692.3	994.82 ug/L	4.230	994.82 ppb	4.230	0.43%
QC value within limits for S 181.975 Axial Recovery = 99.48%						
Sb 206.836†	1352.2	513.36 ug/L	2.200	513.36 ppb	2.200	0.43%
QC value within limits for Sb 206.836 Recovery = 102.67%						
Se 196.026†	732.5	515.43 ug/L	4.574	515.43 ppb	4.574	0.89%
QC value within limits for Se 196.026 Recovery = 103.09%						
Si 251.611†	74633.0	2492.9 ug/L	4.17	2492.9 ppb	4.17	0.17%
QC value within limits for Si 251.611 Recovery = 99.72%						
Sn 189.927†	2441.8	492.21 ug/L	1.308	492.21 ppb	1.308	0.27%
QC value within limits for Sn 189.927 Recovery = 98.44%						
Sr 421.552†	64046.1	480.22 ug/L	9.482	480.22 ppb	9.482	1.97%
QC value within limits for Sr 421.552 Recovery = 96.04%						
Ti 334.940†	293573.6	487.23 ug/L	0.090	487.23 ppb	0.090	0.02%
QC value within limits for Ti 334.940 Recovery = 97.45%						
Tl 190.801†	1479.5	500.00 ug/L	3.305	500.00 ppb	3.305	0.66%
QC value within limits for Tl 190.801 Recovery = 100.00%						
U 409.014†	15004.3	544.44 ug/L	1.463	544.44 ppb	1.463	0.27%
QC value within limits for U 409.014 Recovery = 108.89%						
V 292.402†	60634.1	503.26 ug/L	0.160	503.26 ppb	0.160	0.03%
QC value within limits for V 292.402 Recovery = 100.65%						
Zn 213.857†	47009.6	488.80 ug/L	0.631	488.80 ppb	0.631	0.13%
QC value within limits for Zn 213.857 Recovery = 97.76%						
SiO2†	74912.9	5326.5 ug/L	12.30	5326.5 ppb	12.30	0.23%
QC value within limits for SiO2 Recovery = 99.61%						

QC Failed. Continue with analysis.

Sequence No.: 106
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 2/20/2010 04:34:16
 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	3875.0	3875.0	110 %		04:36:29
1	Y RADIAL	4340.0	4340.0	108.5 %		04:36:09
1	Al 396.153Radial†	-103.4	18.9	18.324 ug/L	18.324 ppb	04:36:29
1	Ca 317.933Radial†	52.5	16.7	36.529 ug/L	36.529 ppb	04:36:29
1	Fe 238.204 Radial†	9.0	-1.0	-13.982 ug/L	-13.982 ppb	04:36:29
1	K 766.490 Radial†	2928.3	-471.3	-88.030 ug/L	-88.030 ppb	04:36:09
1	Mg 279.077 IEC†	3.2	0.3	12.791 ug/L	12.791 ppb	04:36:29
1	Na 589.592 Radial†	-101.7	-4120.2	-1414.0 ug/L	-1414.0 ppb	04:36:09
1	Sr 421.552†	362.4	-1110.6	-8.3283 ug/L	-8.3283 ppb	04:36:09
1	Sc 361.383	783260.9	783260.9	104.25 %		04:37:26
1	Y 371.029	622984.3	622984.3	105.87 %		04:37:26
1	Ag 328.068†	302.9	-35.8	-0.1990 ug/L	-0.1990 ppb	04:37:26
1	As 188.979†	-23.5	-1.8	-0.8494 ug/L	-0.8494 ppb	04:37:46
1	B 249.677†	-241.3	210.5	5.2285 ug/L	5.2285 ppb	04:37:46
1	Ba 233.527†	76.8	-71.4	-0.6054 ug/L	-0.6054 ppb	04:37:46
1	Be 313.107†	-4570.5	-28.3	-0.0100 ug/L	-0.0100 ppb	04:37:26
1	Cd 226.502†	-175.4	26.9	0.3597 ug/L	0.3597 ppb	04:37:46
1	Co 228.616†	-67.4	5.6	0.1242 ug/L	0.1242 ppb	04:37:46
1	Cr 267.716†	79.1	-1.9	-0.0312 ug/L	-0.0312 ppb	04:37:46
1	Cu 324.752†	6136.1	-566.2	-1.7736 ug/L	-1.7736 ppb	04:37:26
1	Mn 257.610†	499.2	7.6	0.0071 ug/L	0.0071 ppb	04:37:46
1	Mo 202.031†	21.9	11.0	0.9001 ug/L	0.9001 ppb	04:37:46
1	Ni 231.604†	70.6	-11.4	-0.3258 ug/L	-0.3258 ppb	04:37:46
1	P 214.914†	209.4	-10.3	-5.9044 ug/L	-5.9044 ppb	04:37:46
1	Pb 220.353†	-35.4	-54.8	-7.6061 ug/L	-7.6061 ppb	04:37:46
1	S 181.975 Axial†	44.0	4.8	6.8793 ug/L	6.8793 ppb	04:37:46
1	Sb 206.836†	36.4	-1.4	-0.4922 ug/L	-0.4922 ppb	04:37:46
1	Se 196.026†	-30.6	-0.0	-0.0720 ug/L	-0.0720 ppb	04:37:46
1	Si 251.611†	640.3	117.7	3.9295 ug/L	3.9295 ppb	04:37:46
1	Sn 189.927†	22.1	5.8	1.1828 ug/L	1.1828 ppb	04:37:46
1	Ti 334.940†	-1226.4	303.6	0.5008 ug/L	0.5008 ppb	04:37:26
1	Tl 190.801†	-30.1	3.7	1.2284 ug/L	1.2284 ppb	04:37:46
1	U 409.014†	-2731.8	442.7	16.114 ug/L	16.114 ppb	04:37:26
1	V 292.402†	-1620.8	138.0	1.1757 ug/L	1.1757 ppb	04:37:26
1	Zn 213.857†	685.7	14.0	0.1536 ug/L	0.1536 ppb	04:37:46
1	SiO2†	578.9	63.1	4.4759 ug/L	4.4759 ppb	04:38:42
2	Sc Radial	3906.9	3906.9	110 %		04:36:54
2	Y RADIAL	4434.3	4434.3	110.9 %		04:36:34
2	Al 396.153Radial†	-101.5	21.4	20.775 ug/L	20.775 ppb	04:36:54
2	Ca 317.933Radial†	44.2	8.7	19.094 ug/L	19.094 ppb	04:36:54
2	Fe 238.204 Radial†	8.6	-1.4	-20.110 ug/L	-20.110 ppb	04:36:54
2	K 766.490 Radial†	3016.6	-413.3	-77.124 ug/L	-77.124 ppb	04:36:34
2	Mg 279.077 IEC†	1.3	-1.5	-73.909 ug/L	-73.909 ppb	04:36:54
2	Na 589.592 Radial†	-22.4	-4047.7	-1389.1 ug/L	-1389.1 ppb	04:36:34
2	Sr 421.552†	369.5	-1106.9	-8.3002 ug/L	-8.3002 ppb	04:36:34
2	Sc 361.383	781828.8	781828.8	104.06 %		04:37:51
2	Y 371.029	621522.5	621522.5	105.62 %		04:37:51
2	Ag 328.068†	142.1	-189.8	-0.9928 ug/L	-0.9928 ppb	04:37:51
2	As 188.979†	-26.6	-4.9	-2.2595 ug/L	-2.2595 ppb	04:38:11
2	B 249.677†	-270.4	182.1	4.5237 ug/L	4.5237 ppb	04:38:11
2	Ba 233.527†	147.6	-3.2	-0.0245 ug/L	-0.0245 ppb	04:38:11
2	Be 313.107†	-4465.4	64.6	0.0267 ug/L	0.0267 ppb	04:37:51
2	Cd 226.502†	-194.3	8.4	0.1152 ug/L	0.1152 ppb	04:38:11
2	Co 228.616†	-68.8	4.2	0.0918 ug/L	0.0918 ppb	04:38:11
2	Cr 267.716†	73.4	-7.3	-0.0990 ug/L	-0.0990 ppb	04:38:11
2	Cu 324.752†	6144.1	-547.7	-1.7135 ug/L	-1.7135 ppb	04:37:51
2	Mn 257.610†	500.8	9.9	0.0128 ug/L	0.0128 ppb	04:38:11
2	Mo 202.031†	17.5	6.8	0.5581 ug/L	0.5581 ppb	04:38:11
2	Ni 231.604†	92.3	9.5	0.2709 ug/L	0.2709 ppb	04:38:11

2	P 214.914†	206.1	-13.0	-7.5858 ug/L	-7.5858 ppb	04:38:11
2	Pb 220.353†	-51.0	-69.9	-9.7014 ug/L	-9.7014 ppb	04:38:11
2	S 181.975 Axial†	48.8	9.5	13.646 ug/L	13.646 ppb	04:38:11
2	Sb 206.836†	34.4	-3.3	-1.1765 ug/L	-1.1765 ppb	04:38:11
2	Se 196.026†	-20.7	9.4	6.3003 ug/L	6.3003 ppb	04:38:11
2	Si 251.611†	621.6	100.9	3.3705 ug/L	3.3705 ppb	04:38:11
2	Sn 189.927†	18.3	2.3	0.4677 ug/L	0.4677 ppb	04:38:11
2	Ti 334.940†	-1164.7	360.7	0.6026 ug/L	0.6026 ppb	04:37:51
2	Tl 190.801†	-21.5	11.9	3.9823 ug/L	3.9823 ppb	04:38:11
2	U 409.014†	-2873.3	301.9	10.990 ug/L	10.990 ppb	04:37:51
2	V 292.402†	-1563.4	190.3	1.5881 ug/L	1.5881 ppb	04:37:51
2	Zn 213.857†	665.6	-4.2	-0.0403 ug/L	-0.0403 ppb	04:38:11
2	SiO2†	1434.5	886.4	63.166 ug/L	63.166 ppb	04:38:47
3	Sc Radial	3891.1	3891.1	110 %		04:37:19
3	Y RADIAL	4371.7	4371.7	109.3 %		04:36:59
3	Al 396.153Radial†	-118.4	5.6	5.3895 ug/L	5.3895 ppb	04:37:19
3	Ca 317.933Radial†	36.3	1.8	3.9180 ug/L	3.9180 ppb	04:37:19
3	Fe 238.204 Radial†	8.8	-1.1	-16.081 ug/L	-16.081 ppb	04:37:19
3	K 766.490 Radial†	3021.9	-397.3	-74.111 ug/L	-74.111 ppb	04:36:59
3	Mg 279.077 IEC†	1.4	-1.4	-71.596 ug/L	-71.596 ppb	04:37:19
3	Na 589.592 Radial†	-104.5	-4122.4	-1414.7 ug/L	-1414.7 ppb	04:36:59
3	Sr 421.552†	308.7	-1160.9	-8.7048 ug/L	-8.7048 ppb	04:36:59
3	Sc 361.383	778620.4	778620.4	103.63 %		04:38:16
3	Y 371.029	619455.4	619455.4	105.27 %		04:38:16
3	Ag 328.068†	259.9	-75.5	-0.4032 ug/L	-0.4032 ppb	04:38:16
3	As 188.979†	-25.1	-3.5	-1.6309 ug/L	-1.6309 ppb	04:38:36
3	B 249.677†	-302.2	150.4	3.7364 ug/L	3.7364 ppb	04:38:36
3	Ba 233.527†	49.7	-97.0	-0.8232 ug/L	-0.8232 ppb	04:38:36
3	Be 313.107†	-4578.1	-61.8	-0.0234 ug/L	-0.0234 ppb	04:38:16
3	Cd 226.502†	-183.5	18.0	0.2434 ug/L	0.2434 ppb	04:38:36
3	Co 228.616†	-70.8	2.0	0.0439 ug/L	0.0439 ppb	04:38:36
3	Cr 267.716†	71.9	-8.4	-0.1157 ug/L	-0.1157 ppb	04:38:36
3	Cu 324.752†	5977.0	-684.7	-2.1426 ug/L	-2.1426 ppb	04:38:16
3	Mn 257.610†	514.4	25.0	0.0309 ug/L	0.0309 ppb	04:38:36
3	Mo 202.031†	21.6	10.9	0.8897 ug/L	0.8897 ppb	04:38:36
3	Ni 231.604†	98.3	15.7	0.4472 ug/L	0.4472 ppb	04:38:36
3	P 214.914†	222.3	3.4	2.5511 ug/L	2.5511 ppb	04:38:36
3	Pb 220.353†	-54.1	-73.1	-10.144 ug/L	-10.144 ppb	04:38:36
3	S 181.975 Axial†	47.5	8.4	12.135 ug/L	12.135 ppb	04:38:36
3	Sb 206.836†	43.4	5.5	2.0525 ug/L	2.0525 ppb	04:38:36
3	Se 196.026†	-18.1	11.9	7.9913 ug/L	7.9913 ppb	04:38:36
3	Si 251.611†	677.9	157.6	5.2675 ug/L	5.2675 ppb	04:38:36
3	Sn 189.927†	21.2	5.1	1.0342 ug/L	1.0342 ppb	04:38:36
3	Ti 334.940†	-1301.2	224.4	0.3720 ug/L	0.3720 ppb	04:38:16
3	Tl 190.801†	-22.0	11.3	3.8026 ug/L	3.8026 ppb	04:38:36
3	U 409.014†	-2726.0	432.6	15.748 ug/L	15.748 ppb	04:38:16
3	V 292.402†	-1566.6	181.0	1.5255 ug/L	1.5255 ppb	04:38:16
3	Zn 213.857†	660.4	-6.5	-0.0660 ug/L	-0.0660 ppb	04:38:36
3	SiO2†	561.5	49.6	3.5099 ug/L	3.5099 ppb	04:38:52

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	781236.7	103.98 %	0.316			0.30%
Sc Radial	3891.0	110 %	0.5			0.41%
Y 371.029	621320.7	105.58 %	0.301			0.29%
Y RADIAL	4382.0	109.6 %	1.20			1.10%
Ag 328.068†	-100.4	-0.5317 ug/L	0.41215	-0.5317 ppb	0.41215	77.52%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	15.3	14.829 ug/L	8.2666	14.829 ppb	8.2666	55.74%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.4	-1.5799 ug/L	0.70642	-1.5799 ppb	0.70642	44.71%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	181.0	4.4962 ug/L	0.74642	4.4962 ppb	0.74642	16.60%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-57.2	-0.4844 ug/L	0.41290	-0.4844 ppb	0.41290	85.24%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-8.5	-0.0022 ug/L	0.02595	-0.0022 ppb	0.02595	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	9.1	19.847 ug/L	16.3184	19.847 ppb	16.3184	82.22%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	17.8	0.2394 ug/L	0.12229	0.2394 ppb	0.12229	51.08%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	3.9	0.0867 ug/L	0.04040	0.0867 ppb	0.04040	46.62%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-5.9	-0.0820 ug/L	0.04478	-0.0820 ppb	0.04478	54.62%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-599.6	-1.8766 ug/L	0.23233	-1.8766 ppb	0.23233	12.38%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	-1.2	-16.724 ug/L	3.1147	-16.724 ppb	3.1147	18.62%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	-427.3	-79.755 ug/L	7.3227	-79.755 ppb	7.3227	9.18%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	-0.9	-44.238 ug/L	49.4022	-44.238 ppb	49.4022	111.67%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	14.2	0.0169 ug/L	0.01247	0.0169 ppb	0.01247	73.67%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	9.6	0.7826 ug/L	0.19450	0.7826 ppb	0.19450	24.85%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-4096.7	-1406.0 ug/L	14.59	-1406.0 ppb	14.59	1.04%		
QC value less than the lower limit for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	4.6	0.1308 ug/L	0.40509	0.1308 ppb	0.40509	309.70%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	-6.6	-3.6463 ug/L	5.43260	-3.6463 ppb	5.43260	148.99%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	-65.9	-9.1505 ug/L	1.35571	-9.1505 ppb	1.35571	14.82%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	7.6	10.887 ug/L	3.5519	10.887 ppb	3.5519	32.63%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	0.3	0.1279 ug/L	1.70147	0.1279 ppb	1.70147	>999.9%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	7.1	4.7399 ug/L	4.25210	4.7399 ppb	4.25210	89.71%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	125.4	4.1891 ug/L	0.97478	4.1891 ppb	0.97478	23.27%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	4.4	0.8949 ug/L	0.37738	0.8949 ppb	0.37738	42.17%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	-1126.1	-8.4444 ug/L	0.22591	-8.4444 ppb	0.22591	2.68%		
QC value less than the lower limit for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	296.2	0.4918 ug/L	0.11557	0.4918 ppb	0.11557	23.50%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	8.9	3.0044 ug/L	1.54070	3.0044 ppb	1.54070	51.28%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	392.4	14.284 ug/L	2.8587	14.284 ppb	2.8587	20.01%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	169.8	1.4298 ug/L	0.22228	1.4298 ppb	0.22228	15.55%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	1.1	0.0158 ug/L	0.12007	0.0158 ppb	0.12007	761.90%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		333.0	23.717 ug/L	34.1668	23.717 ppb	34.1668	144.06%		
QC value within limits for SiO2 Recovery = Not calculated									

QC Failed. Continue with analysis.

Sequence No.: 107

Sample ID: 1202036425|950319|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 107

Date Collected: 2/20/2010 04:41:02

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202036425|950319|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4031.7	4031.7	114 %		04:43:16
1	Y RADIAL	4566.6	4566.6	114.2 %		04:42:56
1	Al 396.153Radial†	-100.4	25.2	24.420 ug/L	24.420 ppb	04:43:16
1	Ca 317.933Radial†	42.4	6.0	13.010 ug/L	13.010 ppb	04:43:16
1	Fe 238.204 Radial†	12.1	1.4	20.885 ug/L	20.885 ppb	04:43:16
1	K 766.490 Radial†	3020.2	-494.7	-92.409 ug/L	-92.409 ppb	04:42:56
1	Mg 279.077 IEC†	1.5	-1.4	-69.366 ug/L	-69.366 ppb	04:43:16
1	Na 589.592 Radial†	-101.1	-4116.1	-1412.6 ug/L	-1412.6 ppb	04:42:56
1	Sr 421.552†	365.9	-1120.4	-8.4018 ug/L	-8.4018 ppb	04:42:56
1	Sc 361.383	798814.1	798814.1	106.32 %		04:44:13
1	Y 371.029	633938.7	633938.7	107.73 %		04:44:13
1	Ag 328.068†	225.4	-114.3	-0.5995 ug/L	-0.5995 ppb	04:44:13
1	As 188.979†	-25.3	-3.1	-1.4305 ug/L	-1.4305 ppb	04:44:33
1	B 249.677†	-323.7	137.5	3.4096 ug/L	3.4096 ppb	04:44:33
1	Ba 233.527†	117.6	-34.5	-0.2882 ug/L	-0.2882 ppb	04:44:33
1	Be 313.107†	-4540.9	84.8	0.0345 ug/L	0.0345 ppb	04:44:13
1	Cd 226.502†	-207.2	0.2	0.0060 ug/L	0.0060 ppb	04:44:33
1	Co 228.616†	-54.8	18.7	0.4108 ug/L	0.4108 ppb	04:44:33
1	Cr 267.716†	94.0	10.6	0.1326 ug/L	0.1326 ppb	04:44:33
1	Cu 324.752†	6052.3	-759.7	-2.3803 ug/L	-2.3803 ppb	04:44:13
1	Mn 257.610†	616.9	108.9	0.1338 ug/L	0.1338 ppb	04:44:33
1	Mo 202.031†	21.9	10.6	0.8699 ug/L	0.8699 ppb	04:44:33
1	Ni 231.604†	85.9	1.7	0.0472 ug/L	0.0472 ppb	04:44:33
1	P 214.914†	230.6	5.7	3.9877 ug/L	3.9877 ppb	04:44:33
1	Pb 220.353†	-50.4	-68.3	-9.4712 ug/L	-9.4712 ppb	04:44:33
1	S 181.975 Axial†	41.2	1.4	2.0001 ug/L	2.0001 ppb	04:44:33
1	Sb 206.836†	42.9	4.0	1.4978 ug/L	1.4978 ppb	04:44:33
1	Se 196.026†	-18.9	11.5	7.8784 ug/L	7.8784 ppb	04:44:33
1	Si 251.611†	921.5	370.2	12.386 ug/L	12.386 ppb	04:44:33
1	Sn 189.927†	25.8	9.0	1.8071 ug/L	1.8071 ppb	04:44:33
1	Ti 334.940†	-1229.3	323.7	0.5331 ug/L	0.5331 ppb	04:44:13
1	Tl 190.801†	-29.6	4.8	1.5961 ug/L	1.5961 ppb	04:44:33
1	U 409.014†	-2480.2	730.3	26.579 ug/L	26.579 ppb	04:44:13
1	V 292.402†	-1533.2	250.7	2.1110 ug/L	2.1110 ppb	04:44:13
1	Zn 213.857†	739.1	51.4	0.5389 ug/L	0.5389 ppb	04:44:33
1	SiO2†	887.8	342.8	24.415 ug/L	24.415 ppb	04:45:29
2	Sc Radial	3968.7	3968.7	112 %		04:43:41
2	Y RADIAL	4467.4	4467.4	111.7 %		04:43:21
2	Al 396.153Radial†	-110.6	14.7	14.246 ug/L	14.246 ppb	04:43:41
2	Ca 317.933Radial†	39.8	4.2	9.2273 ug/L	9.2273 ppb	04:43:41
2	Fe 238.204 Radial†	8.2	-1.9	-27.097 ug/L	-27.097 ppb	04:43:41
2	K 766.490 Radial†	3044.5	-431.0	-80.434 ug/L	-80.434 ppb	04:43:21
2	Mg 279.077 IEC†	-0.4	-3.0	-154.18 ug/L	-154.18 ppb	04:43:41
2	Na 589.592 Radial†	-123.1	-4137.0	-1419.8 ug/L	-1419.8 ppb	04:43:21
2	Sr 421.552†	318.2	-1157.9	-8.6824 ug/L	-8.6824 ppb	04:43:21
2	Sc 361.383	800976.7	800976.7	106.61 %		04:44:38
2	Y 371.029	635547.6	635547.6	108.00 %		04:44:38
2	Ag 328.068†	185.3	-152.6	-0.8069 ug/L	-0.8069 ppb	04:44:38
2	As 188.979†	-14.4	7.2	3.3436 ug/L	3.3436 ppb	04:44:58
2	B 249.677†	-356.4	107.7	2.6766 ug/L	2.6766 ppb	04:44:58
2	Ba 233.527†	121.4	-31.2	-0.2616 ug/L	-0.2616 ppb	04:44:58
2	Be 313.107†	-4619.7	22.5	0.0102 ug/L	0.0102 ppb	04:44:38
2	Cd 226.502†	-200.1	7.4	0.1052 ug/L	0.1052 ppb	04:44:58
2	Co 228.616†	-59.7	14.4	0.3147 ug/L	0.3147 ppb	04:44:58
2	Cr 267.716†	78.5	-4.2	-0.0623 ug/L	-0.0623 ppb	04:44:58
2	Cu 324.752†	6067.2	-761.1	-2.3839 ug/L	-2.3839 ppb	04:44:38
2	Mn 257.610†	634.9	124.2	0.1506 ug/L	0.1506 ppb	04:44:58
2	Mo 202.031†	17.3	6.2	0.5093 ug/L	0.5093 ppb	04:44:58
2	Ni 231.604†	102.9	17.4	0.4944 ug/L	0.4944 ppb	04:44:58

2	P 214.914†	224.9	-0.2	0.3918 ug/L	0.3918 ppb	04:44:58
2	Pb 220.353†	-43.8	-62.0	-8.6042 ug/L	-8.6042 ppb	04:44:58
2	S 181.975 Axial†	48.6	8.2	11.849 ug/L	11.849 ppb	04:44:58
2	Sb 206.836†	33.7	-4.7	-1.6912 ug/L	-1.6912 ppb	04:44:58
2	Se 196.026†	-10.7	19.2	12.941 ug/L	12.941 ppb	04:44:58
2	Si 251.611†	954.5	398.9	13.349 ug/L	13.349 ppb	04:44:58
2	Sn 189.927†	25.4	8.5	1.7129 ug/L	1.7129 ppb	04:44:58
2	Ti 334.940†	-1176.5	376.4	0.6295 ug/L	0.6295 ppb	04:44:38
2	Tl 190.801†	-30.6	3.9	1.3017 ug/L	1.3017 ppb	04:44:58
2	U 409.014†	-2653.0	574.5	20.914 ug/L	20.914 ppb	04:44:38
2	V 292.402†	-1511.3	275.1	2.3008 ug/L	2.3008 ppb	04:44:38
2	Zn 213.857†	735.6	46.2	0.4893 ug/L	0.4893 ppb	04:44:58
2	SiO2†	919.2	370.0	26.362 ug/L	26.362 ppb	04:45:34
3	Sc Radial	3949.0	3949.0	112 %		04:44:06
3	Y RADIAL	4558.3	4558.3	114.0 %		04:43:46
3	Al 396.153Radial†	-105.0	19.2	18.608 ug/L	18.608 ppb	04:44:06
3	Ca 317.933Radial†	42.7	7.0	15.238 ug/L	15.238 ppb	04:44:06
3	Fe 238.204 Radial†	9.6	-0.6	-8.2613 ug/L	-8.2613 ppb	04:44:06
3	K 766.490 Radial†	2843.1	-597.8	-111.78 ug/L	-111.78 ppb	04:43:46
3	Mg 279.077 IEC†	2.2	-0.6	-32.543 ug/L	-32.543 ppb	04:44:06
3	Na 589.592 Radial†	-35.6	-4059.2	-1393.1 ug/L	-1393.1 ppb	04:43:46
3	Sr 421.552†	555.8	-943.6	-7.0759 ug/L	-7.0759 ppb	04:43:46
3	Sc 361.383	795625.9	795625.9	105.90 %		04:45:03
3	Y 371.029	631127.6	631127.6	107.25 %		04:45:03
3	Ag 328.068†	169.2	-166.5	-0.8701 ug/L	-0.8701 ppb	04:45:03
3	As 188.979†	-24.4	-2.3	-1.0785 ug/L	-1.0785 ppb	04:45:23
3	B 249.677†	-364.6	97.6	2.4256 ug/L	2.4256 ppb	04:45:23
3	Ba 233.527†	115.7	-35.8	-0.3025 ug/L	-0.3025 ppb	04:45:23
3	Be 313.107†	-4455.5	148.3	0.0595 ug/L	0.0595 ppb	04:45:03
3	Cd 226.502†	-187.0	18.6	0.2491 ug/L	0.2491 ppb	04:45:23
3	Co 228.616†	-76.2	-1.7	-0.0361 ug/L	-0.0361 ppb	04:45:23
3	Cr 267.716†	70.7	-11.1	-0.1483 ug/L	-0.1483 ppb	04:45:23
3	Cu 324.752†	5972.8	-811.9	-2.5361 ug/L	-2.5361 ppb	04:45:03
3	Mn 257.610†	628.7	122.4	0.1453 ug/L	0.1453 ppb	04:45:23
3	Mo 202.031†	19.5	8.4	0.6904 ug/L	0.6904 ppb	04:45:23
3	Ni 231.604†	96.8	12.2	0.3483 ug/L	0.3483 ppb	04:45:23
3	P 214.914†	229.1	5.2	3.7011 ug/L	3.7011 ppb	04:45:23
3	Pb 220.353†	-52.3	-70.3	-9.7507 ug/L	-9.7507 ppb	04:45:23
3	S 181.975 Axial†	51.1	10.9	15.675 ug/L	15.675 ppb	04:45:23
3	Sb 206.836†	38.7	0.2	0.0780 ug/L	0.0780 ppb	04:45:23
3	Se 196.026†	-22.3	8.2	5.5301 ug/L	5.5301 ppb	04:45:23
3	Si 251.611†	882.4	336.8	11.268 ug/L	11.268 ppb	04:45:23
3	Sn 189.927†	18.7	2.3	0.4630 ug/L	0.4630 ppb	04:45:23
3	Ti 334.940†	-1191.3	355.0	0.5891 ug/L	0.5891 ppb	04:45:03
3	Tl 190.801†	-14.9	18.5	6.2100 ug/L	6.2100 ppb	04:45:23
3	U 409.014†	-2910.2	314.9	11.464 ug/L	11.464 ppb	04:45:03
3	V 292.402†	-1633.4	150.3	1.2626 ug/L	1.2626 ppb	04:45:03
3	Zn 213.857†	747.1	61.7	0.6502 ug/L	0.6502 ppb	04:45:23
3	SiO2†	920.1	376.7	26.833 ug/L	26.833 ppb	04:45:39

Mean Data: 1202036425|950319|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	798472.2	106.27	%	0.358			0.34%
Sc Radial	3983.1	113	%	1.2			1.08%
Y 371.029	633538.0	107.66	%	0.380			0.35%
Y RADIAL	4530.8	113.3	%	1.38			1.22%
Ag 328.068†	-144.5	-0.7588	ug/L	0.14158	-0.7588 ppb	0.14158	18.66%
Al 396.153Radial†	19.7	19.091	ug/L	5.1040	19.091 ppb	5.1040	26.73%
As 188.979†	0.6	0.2782	ug/L	2.66050	0.2782 ppb	2.66050	956.27%
B 249.677†	114.3	2.8373	ug/L	0.51131	2.8373 ppb	0.51131	18.02%
Ba 233.527†	-33.8	-0.2841	ug/L	0.02077	-0.2841 ppb	0.02077	7.31%
Be 313.107†	85.2	0.0348	ug/L	0.02466	0.0348 ppb	0.02466	70.93%
Ca 317.933Radial†	5.7	12.492	ug/L	3.0388	12.492 ppb	3.0388	24.33%
Cd 226.502†	8.7	0.1201	ug/L	0.12220	0.1201 ppb	0.12220	101.77%
Co 228.616†	10.5	0.2298	ug/L	0.23524	0.2298 ppb	0.23524	102.36%
Cr 267.716†	-1.6	-0.0260	ug/L	0.14389	-0.0260 ppb	0.14389	553.28%
Cu 324.752†	-777.6	-2.4334	ug/L	0.08892	-2.4334 ppb	0.08892	3.65%
Fe 238.204 Radial†	-0.3	-4.8243	ug/L	24.17496	-4.8243 ppb	24.17496	501.10%
K 766.490 Radial†	-507.8	-94.876	ug/L	15.8194	-94.876 ppb	15.8194	16.67%

Mg 279.077 IEC†	-1.7	-85.363 ug/L	62.3764	-85.363 ppb	62.3764	73.07%
Mn 257.610†	118.5	0.1432 ug/L	0.00859	0.1432 ppb	0.00859	6.00%
Mo 202.031†	8.4	0.6899 ug/L	0.18029	0.6899 ppb	0.18029	26.13%
Na 589.592 Radial†	-4104.1	-1408.5 ug/L	13.82	-1408.5 ppb	13.82	0.98%
Ni 231.604†	10.4	0.2966 ug/L	0.22805	0.2966 ppb	0.22805	76.88%
P 214.914†	3.6	2.6935 ug/L	1.99849	2.6935 ppb	1.99849	74.20%
Pb 220.353†	-66.8	-9.2754 ug/L	0.59783	-9.2754 ppb	0.59783	6.45%
S 181.975 Axial†	6.8	9.8413 ug/L	7.05493	9.8413 ppb	7.05493	71.69%
Sb 206.836†	-0.2	-0.0385 ug/L	1.59766	-0.0385 ppb	1.59766	>999.9%
Se 196.026†	13.0	8.7833 ug/L	3.78752	8.7833 ppb	3.78752	43.12%
Si 251.611†	368.6	12.335 ug/L	1.0412	12.335 ppb	1.0412	8.44%
Sn 189.927†	6.6	1.3277 ug/L	0.75030	1.3277 ppb	0.75030	56.51%
Sr 421.552†	-1074.0	-8.0534 ug/L	0.85805	-8.0534 ppb	0.85805	10.65%
Ti 334.940†	351.7	0.5839 ug/L	0.04842	0.5839 ppb	0.04842	8.29%
Tl 190.801†	9.0	3.0359 ug/L	2.75276	3.0359 ppb	2.75276	90.67%
U 409.014†	539.9	19.652 ug/L	7.6358	19.652 ppb	7.6358	38.85%
V 292.402†	225.4	1.8915 ug/L	0.55284	1.8915 ppb	0.55284	29.23%
Zn 213.857†	53.1	0.5594 ug/L	0.08239	0.5594 ppb	0.08239	14.73%
SiO2†	363.2	25.870 ug/L	1.2821	25.870 ppb	1.2821	4.96%

Sequence No.: 108

Sample ID: 1202036426|950319|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 108

Date Collected: 2/20/2010 04:47:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202036426|950319|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3969.4	3969.4	112 %			04:50:04
1	Y RADIAL	4503.4	4503.4	112.6 %			04:49:44
1	Al 396.153Radial†	5584.9	5089.6	4924.7 ug/L		4924.7 ppb	04:49:44
1	Ca 317.933Radial†	2590.8	2277.2	4974.7 ug/L		4974.7 ppb	04:50:04
1	Fe 238.204 Radial†	403.3	350.2	5080.3 ug/L		5080.3 ppb	04:50:04
1	K 766.490 Radial†	31751.1	25147.2	4721.4 ug/L		4721.4 ppb	04:49:44
1	Mg 279.077 IEC†	114.1	99.0	5032.5 ug/L		5032.5 ppb	04:50:04
1	Na 589.592 Radial†	16638.8	10798.4	3705.9 ug/L		3705.9 ppb	04:49:44
1	Sr 421.552†	75476.3	65810.6	493.45 ug/L		493.45 ppb	04:49:44
1	Sc 361.383	807930.4	807930.4	107.53 %			04:51:03
1	Y 371.029	634808.5	634808.5	107.88 %			04:51:03
1	Ag 328.068†	102505.5	94997.7	495.29 ug/L		495.29 ppb	04:51:03
1	As 188.979†	1122.7	1064.7	497.62 ug/L		497.62 ppb	04:51:23
1	B 249.677†	20543.9	19546.6	483.11 ug/L		483.11 ppb	04:51:03
1	Ba 233.527†	63030.2	58469.3	498.94 ug/L		498.94 ppb	04:51:03
1	Be 313.107†	1336628.9	1247341.7	490.56 ug/L		490.56 ppb	04:51:03
1	Cd 226.502†	38500.0	35997.8	475.79 ug/L		475.79 ppb	04:51:23
1	Co 228.616†	23284.8	21723.8	476.06 ug/L		476.06 ppb	04:51:23
1	Cr 267.716†	40039.3	37156.4	486.59 ug/L		486.59 ppb	04:51:03
1	Cu 324.752†	179478.7	160452.4	499.82 ug/L		499.82 ppb	04:51:03
1	Mn 257.610†	444190.5	412599.6	488.54 ug/L		488.54 ppb	04:51:03
1	Mo 202.031†	6369.2	5913.0	484.29 ug/L		484.29 ppb	04:51:23
1	Ni 231.604†	18400.7	17032.5	484.30 ug/L		484.30 ppb	04:51:23
1	P 214.914†	1183.8	889.7	446.27 ug/L		446.27 ppb	04:51:23
1	Pb 220.353†	3770.6	3485.5	486.21 ug/L		486.21 ppb	04:51:23
1	S 181.975 Axial†	3688.2	3392.5	4878.1 ug/L		4878.1 ppb	04:51:23
1	Sb 206.836†	1523.9	1380.8	523.89 ug/L		523.89 ppb	04:51:23
1	Se 196.026†	732.5	710.4	500.94 ug/L		500.94 ppb	04:51:23
1	Si 251.611†	155398.6	144015.0	4816.2 ug/L		4816.2 ppb	04:51:03
1	Sn 189.927†	2721.3	2515.3	506.99 ug/L		506.99 ppb	04:51:23
1	Ti 334.940†	318670.8	297825.0	494.28 ug/L		494.28 ppb	04:51:03
1	Tl 190.801†	1535.9	1460.9	493.89 ug/L		493.89 ppb	04:51:23
1	U 409.014†	12892.6	15052.4	546.19 ug/L		546.19 ppb	04:51:03
1	V 292.402†	63465.4	60711.8	503.77 ug/L		503.77 ppb	04:51:03
1	Zn 213.857†	50339.8	46169.3	479.99 ug/L		479.99 ppb	04:51:03
1	SiO2†	156328.9	144884.4	10314 ug/L		10314 ppb	04:52:23
2	Sc Radial	3960.8	3960.8	112 %			04:50:29
2	Y RADIAL	4391.6	4391.6	109.8 %			04:50:09
2	Al 396.153Radial†	5479.2	5005.9	4843.4 ug/L		4843.4 ppb	04:50:09
2	Ca 317.933Radial†	2576.5	2269.5	4957.7 ug/L		4957.7 ppb	04:50:29
2	Fe 238.204 Radial†	400.3	348.3	5052.3 ug/L		5052.3 ppb	04:50:29
2	K 766.490 Radial†	31454.9	24943.7	4683.2 ug/L		4683.2 ppb	04:50:09
2	Mg 279.077 IEC†	113.7	98.9	5024.4 ug/L		5024.4 ppb	04:50:29
2	Na 589.592 Radial†	16421.7	10636.5	3650.3 ug/L		3650.3 ppb	04:50:09
2	Sr 421.552†	74330.2	64932.1	486.86 ug/L		486.86 ppb	04:50:09
2	Sc 361.383	810401.6	810401.6	107.86 %			04:51:30
2	Y 371.029	636254.2	636254.2	108.12 %			04:51:30
2	Ag 328.068†	103084.6	95243.9	496.56 ug/L		496.56 ppb	04:51:30
2	As 188.979†	1124.0	1062.7	496.72 ug/L		496.72 ppb	04:51:50
2	B 249.677†	20756.4	19685.4	486.56 ug/L		486.56 ppb	04:51:30
2	Ba 233.527†	63165.4	58415.9	498.48 ug/L		498.48 ppb	04:51:30
2	Be 313.107†	1343374.6	1249805.3	491.53 ug/L		491.53 ppb	04:51:30
2	Cd 226.502†	38599.6	35981.0	475.57 ug/L		475.57 ppb	04:51:50
2	Co 228.616†	23340.1	21709.0	475.74 ug/L		475.74 ppb	04:51:50
2	Cr 267.716†	40186.0	37178.9	486.89 ug/L		486.89 ppb	04:51:30
2	Cu 324.752†	181165.7	161507.5	503.11 ug/L		503.11 ppb	04:51:30
2	Mn 257.610†	445626.3	412671.1	488.62 ug/L		488.62 ppb	04:51:30
2	Mo 202.031†	6378.1	5903.2	483.48 ug/L		483.48 ppb	04:51:50
2	Ni 231.604†	18494.5	17067.2	485.29 ug/L		485.29 ppb	04:51:50

2	P 214.914†	1197.6	899.2	451.42 ug/L	451.42 ppb	04:51:50
2	Pb 220.353†	3802.6	3504.5	488.82 ug/L	488.82 ppb	04:51:50
2	S 181.975 Axial†	3698.0	3391.1	4876.1 ug/L	4876.1 ppb	04:51:50
2	Sb 206.836†	1522.4	1375.1	521.80 ug/L	521.80 ppb	04:51:50
2	Se 196.026†	719.8	696.7	491.50 ug/L	491.50 ppb	04:51:50
2	Si 251.611†	156278.7	144390.3	4828.8 ug/L	4828.8 ppb	04:51:30
2	Sn 189.927†	2739.7	2524.7	508.88 ug/L	508.88 ppb	04:51:50
2	Ti 334.940†	320366.5	298493.4	495.39 ug/L	495.39 ppb	04:51:30
2	Tl 190.801†	1558.1	1477.0	499.33 ug/L	499.33 ppb	04:51:50
2	U 409.014†	12874.1	14998.7	544.24 ug/L	544.24 ppb	04:51:30
2	V 292.402†	63738.6	60785.1	504.36 ug/L	504.36 ppb	04:51:30
2	Zn 213.857†	50570.0	46240.0	480.73 ug/L	480.73 ppb	04:51:30
2	SiO2†	155271.5	143460.8	10213 ug/L	10213 ppb	04:52:29
3	Sc Radial	3925.3	3925.3	111 %		04:50:54
3	Y RADIAL	4593.6	4593.6	114.9 %		04:50:34
3	Al 396.153Radial†	5755.3	5299.0	5128.2 ug/L	5128.2 ppb	04:50:34
3	Ca 317.933Radial†	2573.8	2287.8	4997.8 ug/L	4997.8 ppb	04:50:54
3	Fe 238.204 Radial†	397.8	349.3	5067.3 ug/L	5067.3 ppb	04:50:54
3	K 766.490 Radial†	32657.8	26282.2	4934.6 ug/L	4934.6 ppb	04:50:34
3	Mg 279.077 IEC†	111.5	97.8	4970.7 ug/L	4970.7 ppb	04:50:54
3	Na 589.592 Radial†	17179.0	11451.8	3930.1 ug/L	3930.1 ppb	04:50:34
3	Sr 421.552†	77993.1	68834.3	516.12 ug/L	516.12 ppb	04:50:34
3	Sc 361.383	804036.4	804036.4	107.02 %		04:51:58
3	Y 371.029	630583.8	630583.8	107.16 %		04:51:58
3	Ag 328.068†	102150.8	95127.9	495.96 ug/L	495.96 ppb	04:51:58
3	As 188.979†	1125.9	1072.8	501.35 ug/L	501.35 ppb	04:52:18
3	B 249.677†	20565.9	19659.6	485.90 ug/L	485.90 ppb	04:51:58
3	Ba 233.527†	62849.5	58584.3	499.92 ug/L	499.92 ppb	04:51:58
3	Be 313.107†	1331572.8	1248637.0	491.07 ug/L	491.07 ppb	04:51:58
3	Cd 226.502†	38774.6	36427.9	481.48 ug/L	481.48 ppb	04:52:18
3	Co 228.616†	23442.0	21975.6	481.59 ug/L	481.59 ppb	04:52:18
3	Cr 267.716†	39866.4	37175.2	486.84 ug/L	486.84 ppb	04:51:58
3	Cu 324.752†	179509.0	161289.1	502.42 ug/L	502.42 ppb	04:51:58
3	Mn 257.610†	443304.9	413772.6	489.93 ug/L	489.93 ppb	04:51:58
3	Mo 202.031†	6392.7	5963.6	488.43 ug/L	488.43 ppb	04:52:18
3	Ni 231.604†	18570.4	17273.9	491.17 ug/L	491.17 ppb	04:52:18
3	P 214.914†	1215.6	924.8	467.30 ug/L	467.30 ppb	04:52:18
3	Pb 220.353†	3787.8	3518.6	490.86 ug/L	490.86 ppb	04:52:18
3	S 181.975 Axial†	3730.5	3448.6	4958.8 ug/L	4958.8 ppb	04:52:18
3	Sb 206.836†	1543.2	1405.7	533.21 ug/L	533.21 ppb	04:52:18
3	Se 196.026†	743.0	723.6	509.87 ug/L	509.87 ppb	04:52:18
3	Si 251.611†	154957.7	144302.9	4825.8 ug/L	4825.8 ppb	04:51:58
3	Sn 189.927†	2747.6	2552.2	514.42 ug/L	514.42 ppb	04:52:18
3	Ti 334.940†	317863.1	298505.5	495.42 ug/L	495.42 ppb	04:51:58
3	Tl 190.801†	1552.0	1482.8	501.24 ug/L	501.24 ppb	04:52:18
3	U 409.014†	12899.4	15116.9	548.54 ug/L	548.54 ppb	04:51:58
3	V 292.402†	63310.7	60853.1	504.99 ug/L	504.99 ppb	04:51:58
3	Zn 213.857†	50324.0	46381.2	482.17 ug/L	482.17 ppb	04:51:58
3	SiO2†	154949.2	144299.2	10272 ug/L	10272 ppb	04:52:34

Mean Data: 1202036426|950319|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	807456.1	107.47 %	0.427			0.40%
Sc Radial	3951.8	112 %	0.7			0.59%
Y 371.029	633882.1	107.72 %	0.501			0.46%
Y RADIAL	4496.2	112.4 %	2.53			2.25%
Ag 328.068†	95123.1	495.94 ug/L	0.636	495.94 ppb	0.636	0.13%
Al 396.153Radial†	5131.5	4965.4 ug/L	146.67	4965.4 ppb	146.67	2.95%
As 188.979†	1066.7	498.56 ug/L	2.457	498.56 ppb	2.457	0.49%
B 249.677†	19630.5	485.19 ug/L	1.832	485.19 ppb	1.832	0.38%
Ba 233.527†	58489.9	499.11 ug/L	0.734	499.11 ppb	0.734	0.15%
Be 313.107†	1248594.7	491.05 ug/L	0.485	491.05 ppb	0.485	0.10%
Ca 317.933Radial†	2278.2	4976.7 ug/L	20.14	4976.7 ppb	20.14	0.40%
Cd 226.502†	36135.6	477.62 ug/L	3.351	477.62 ppb	3.351	0.70%
Co 228.616†	21802.8	477.80 ug/L	3.289	477.80 ppb	3.289	0.69%
Cr 267.716†	37170.1	486.77 ug/L	0.157	486.77 ppb	0.157	0.03%
Cu 324.752†	161083.0	501.78 ug/L	1.734	501.78 ppb	1.734	0.35%
Fe 238.204 Radial†	349.3	5066.6 ug/L	14.00	5066.6 ppb	14.00	0.28%
K 766.490 Radial†	25457.7	4779.7 ug/L	135.46	4779.7 ppb	135.46	2.83%

Mg 279.077 IEC†	98.6	5009.2 ug/L	33.61	5009.2 ppb	33.61	0.67%
Mn 257.610†	413014.5	489.03 ug/L	0.779	489.03 ppb	0.779	0.16%
Mo 202.031†	5926.6	485.40 ug/L	2.654	485.40 ppb	2.654	0.55%
Na 589.592 Radial†	10962.2	3762.1 ug/L	148.14	3762.1 ppb	148.14	3.94%
Ni 231.604†	17124.5	486.92 ug/L	3.712	486.92 ppb	3.712	0.76%
P 214.914†	904.6	455.00 ug/L	10.962	455.00 ppb	10.962	2.41%
Pb 220.353†	3502.9	488.63 ug/L	2.333	488.63 ppb	2.333	0.48%
S 181.975 Axial†	3410.7	4904.3 ug/L	47.14	4904.3 ppb	47.14	0.96%
Sb 206.836†	1387.2	526.30 ug/L	6.078	526.30 ppb	6.078	1.15%
Se 196.026†	710.2	500.77 ug/L	9.187	500.77 ppb	9.187	1.83%
Si 251.611†	144236.1	4823.6 ug/L	6.57	4823.6 ppb	6.57	0.14%
Sn 189.927†	2530.7	510.10 ug/L	3.860	510.10 ppb	3.860	0.76%
Sr 421.552†	66525.7	498.81 ug/L	15.350	498.81 ppb	15.350	3.08%
Ti 334.940†	298274.6	495.03 ug/L	0.648	495.03 ppb	0.648	0.13%
Tl 190.801†	1473.6	498.15 ug/L	3.815	498.15 ppb	3.815	0.77%
U 409.014†	15056.0	546.32 ug/L	2.152	546.32 ppb	2.152	0.39%
V 292.402†	60783.3	504.37 ug/L	0.610	504.37 ppb	0.610	0.12%
Zn 213.857†	46263.5	480.96 ug/L	1.108	480.96 ppb	1.108	0.23%
SiO2†	144214.8	10266 ug/L	51.0	10266 ppb	51.0	0.50%

Sequence No.: 109

Sample ID: 246323001|950319|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 109

Date Collected: 2/20/2010 04:54:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 246323001|950319|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3959.0	3959.0	112 %		04:57:00
1	Y RADIAL	4483.6	4483.6	112.1 %		04:56:40
1	Al 396.153Radial†	-8.4	105.7	102.75 ug/L	102.75 ppb	04:57:00
1	Ca 317.933Radial†	61.3	23.5	51.308 ug/L	51.308 ppb	04:57:00
1	Fe 238.204 Radial†	17.7	6.7	96.572 ug/L	96.572 ppb	04:57:00
1	K 766.490 Radial†	3747.9	204.1	38.821 ug/L	38.821 ppb	04:56:40
1	Mg 279.077 IEC†	3.7	0.7	33.144 ug/L	33.144 ppb	04:57:00
1	Na 589.592 Radial†	411.8	-3659.4	-1255.9 ug/L	-1255.9 ppb	04:56:40
1	Sr 421.552†	937.1	-604.3	-4.5317 ug/L	-4.5317 ppb	04:56:40
1	Sc 361.383	806002.3	806002.3	107.28 %		04:57:57
1	Y 371.029	638825.0	638825.0	108.56 %		04:57:57
1	Ag 328.068†	250.6	-92.7	-0.4629 ug/L	-0.4629 ppb	04:57:57
1	As 188.979†	-25.6	-3.2	-1.4175 ug/L	-1.4175 ppb	04:58:17
1	B 249.677†	843.8	1228.5	30.484 ug/L	30.484 ppb	04:57:57
1	Ba 233.527†	198.3	39.8	0.3450 ug/L	0.3450 ppb	04:58:17
1	Be 313.107†	-4521.5	141.0	0.0632 ug/L	0.0632 ppb	04:57:57
1	Cd 226.502†	-172.1	34.7	0.4538 ug/L	0.4538 ppb	04:58:17
1	Co 228.616†	-58.5	15.8	0.3375 ug/L	0.3375 ppb	04:58:17
1	Cr 267.716†	115.0	29.4	0.3869 ug/L	0.3869 ppb	04:58:17
1	Cu 324.752†	6661.8	-242.2	-0.7614 ug/L	-0.7614 ppb	04:57:57
1	Mn 257.610†	3294.9	2600.1	3.0850 ug/L	3.0850 ppb	04:57:57
1	Mo 202.031†	13.1	2.2	0.1887 ug/L	0.1887 ppb	04:58:17
1	Ni 231.604†	100.9	14.9	0.4244 ug/L	0.4244 ppb	04:58:17
1	P 214.914†	236.1	8.9	5.5705 ug/L	5.5705 ppb	04:58:17
1	Pb 220.353†	-28.6	-47.6	-6.5841 ug/L	-6.5841 ppb	04:58:17
1	S 181.975 Axial†	62.9	21.2	30.542 ug/L	30.542 ppb	04:58:17
1	Sb 206.836†	40.7	1.6	0.6038 ug/L	0.6038 ppb	04:58:17
1	Se 196.026†	-24.6	6.4	4.6839 ug/L	4.6839 ppb	04:58:17
1	Si 251.611†	49916.6	46034.1	1541.4 ug/L	1541.4 ppb	04:57:57
1	Sn 189.927†	23.3	6.4	1.2969 ug/L	1.2969 ppb	04:58:17
1	Ti 334.940†	659.0	2094.2	3.4714 ug/L	3.4714 ppb	04:57:57
1	Tl 190.801†	-23.8	10.4	3.5206 ug/L	3.5206 ppb	04:58:17
1	U 409.014†	-2653.4	589.7	21.450 ug/L	21.450 ppb	04:57:57
1	V 292.402†	-1619.7	182.8	1.5238 ug/L	1.5238 ppb	04:57:57
1	Zn 213.857†	863.0	160.7	1.6699 ug/L	1.6699 ppb	04:58:17
1	SiO2†	49121.4	45297.1	3228.8 ug/L	3228.8 ppb	04:59:13
2	Sc Radial	3962.3	3962.3	112 %		04:57:25
2	Y RADIAL	4569.3	4569.3	114.3 %		04:57:05
2	Al 396.153Radial†	-7.1	106.9	103.84 ug/L	103.84 ppb	04:57:25
2	Ca 317.933Radial†	61.1	23.3	50.819 ug/L	50.819 ppb	04:57:25
2	Fe 238.204 Radial†	18.1	7.0	101.17 ug/L	101.17 ppb	04:57:25
2	K 766.490 Radial†	3795.0	243.3	46.203 ug/L	46.203 ppb	04:57:05
2	Mg 279.077 IEC†	-0.8	-3.4	-170.50 ug/L	-170.50 ppb	04:57:25
2	Na 589.592 Radial†	335.9	-3727.5	-1279.2 ug/L	-1279.2 ppb	04:57:05
2	Sr 421.552†	549.6	-950.9	-7.1305 ug/L	-7.1305 ppb	04:57:05
2	Sc 361.383	793494.9	793494.9	105.61 %		04:58:22
2	Y 371.029	630294.7	630294.7	107.11 %		04:58:22
2	Ag 328.068†	216.6	-121.3	-0.6003 ug/L	-0.6003 ppb	04:58:22
2	As 188.979†	-24.5	-2.6	-1.1370 ug/L	-1.1370 ppb	04:58:43
2	B 249.677†	796.4	1196.1	29.679 ug/L	29.679 ppb	04:58:22
2	Ba 233.527†	196.7	41.2	0.3585 ug/L	0.3585 ppb	04:58:43
2	Be 313.107†	-4408.9	181.2	0.0789 ug/L	0.0789 ppb	04:58:22
2	Cd 226.502†	-186.0	19.1	0.2443 ug/L	0.2443 ppb	04:58:43
2	Co 228.616†	-75.1	-0.8	-0.0241 ug/L	-0.0241 ppb	04:58:43
2	Cr 267.716†	68.2	-13.3	-0.1663 ug/L	-0.1663 ppb	04:58:43
2	Cu 324.752†	6621.0	-183.1	-0.5729 ug/L	-0.5729 ppb	04:58:22
2	Mn 257.610†	3245.7	2601.9	3.0959 ug/L	3.0959 ppb	04:58:22
2	Mo 202.031†	26.3	14.9	1.2273 ug/L	1.2273 ppb	04:58:43
2	Ni 231.604†	82.8	-0.8	-0.0215 ug/L	-0.0215 ppb	04:58:43

2	P 214.914†	242.8	18.8	11.552 ug/L	11.552 ppb	04:58:43
2	Pb 220.353†	-51.7	-69.8	-9.6738 ug/L	-9.6738 ppb	04:58:43
2	S 181.975 Axial†	55.3	14.9	21.461 ug/L	21.461 ppb	04:58:43
2	Sb 206.836†	34.3	-3.9	-1.3796 ug/L	-1.3796 ppb	04:58:43
2	Se 196.026†	-16.9	13.3	9.4009 ug/L	9.4009 ppb	04:58:43
2	Si 251.611†	49045.9	45943.0	1538.3 ug/L	1538.3 ppb	04:58:22
2	Sn 189.927†	27.9	11.1	2.2323 ug/L	2.2323 ppb	04:58:43
2	Ti 334.940†	636.5	2082.7	3.4720 ug/L	3.4720 ppb	04:58:22
2	Tl 190.801†	-34.1	0.3	0.1252 ug/L	0.1252 ppb	04:58:43
2	U 409.014†	-2814.7	398.0	14.475 ug/L	14.475 ppb	04:58:22
2	V 292.402†	-1486.7	285.0	2.3575 ug/L	2.3575 ppb	04:58:22
2	Zn 213.857†	853.3	164.2	1.7086 ug/L	1.7086 ppb	04:58:43
2	SiO2†	49539.0	46414.3	3308.4 ug/L	3308.4 ppb	04:59:18
3	Sc Radial	3989.3	3989.3	113 %		04:57:50
3	Y RADIAL	4474.4	4474.4	111.9 %		04:57:30
3	Al 396.153Radial†	-7.4	106.6	103.63 ug/L	103.63 ppb	04:57:50
3	Ca 317.933Radial†	63.6	25.2	55.021 ug/L	55.021 ppb	04:57:50
3	Fe 238.204 Radial†	19.1	7.8	112.80 ug/L	112.80 ppb	04:57:50
3	K 766.490 Radial†	3659.5	100.3	19.323 ug/L	19.323 ppb	04:57:30
3	Mg 279.077 IEC†	1.8	-1.1	-54.593 ug/L	-54.593 ppb	04:57:50
3	Na 589.592 Radial†	311.3	-3751.3	-1287.4 ug/L	-1287.4 ppb	04:57:30
3	Sr 421.552†	429.4	-1060.8	-7.9546 ug/L	-7.9546 ppb	04:57:30
3	Sc 361.383	800204.3	800204.3	106.51 %		04:58:48
3	Y 371.029	634133.8	634133.8	107.76 %		04:58:48
3	Ag 328.068†	174.5	-162.5	-0.8172 ug/L	-0.8172 ppb	04:58:48
3	As 188.979†	-29.9	-7.4	-3.3648 ug/L	-3.3648 ppb	04:59:08
3	B 249.677†	801.7	1194.7	29.642 ug/L	29.642 ppb	04:58:48
3	Ba 233.527†	216.4	58.2	0.5017 ug/L	0.5017 ppb	04:59:08
3	Be 313.107†	-4480.5	148.9	0.0664 ug/L	0.0664 ppb	04:58:48
3	Cd 226.502†	-174.4	31.4	0.4070 ug/L	0.4070 ppb	04:59:08
3	Co 228.616†	-52.6	21.0	0.4523 ug/L	0.4523 ppb	04:59:08
3	Cr 267.716†	115.5	30.7	0.4065 ug/L	0.4065 ppb	04:59:08
3	Cu 324.752†	6615.2	-241.1	-0.7548 ug/L	-0.7548 ppb	04:58:48
3	Mn 257.610†	3268.5	2597.6	3.0872 ug/L	3.0872 ppb	04:58:48
3	Mo 202.031†	21.5	10.2	0.8462 ug/L	0.8462 ppb	04:59:08
3	Ni 231.604†	89.5	4.9	0.1399 ug/L	0.1399 ppb	04:59:08
3	P 214.914†	239.7	14.0	8.6551 ug/L	8.6551 ppb	04:59:08
3	Pb 220.353†	-41.6	-60.0	-8.3044 ug/L	-8.3044 ppb	04:59:08
3	S 181.975 Axial†	60.6	19.5	28.007 ug/L	28.007 ppb	04:59:08
3	Sb 206.836†	39.9	1.1	0.4400 ug/L	0.4400 ppb	04:59:08
3	Se 196.026†	-11.2	18.7	13.099 ug/L	13.099 ppb	04:59:08
3	Si 251.611†	49360.7	45849.2	1535.2 ug/L	1535.2 ppb	04:58:48
3	Sn 189.927†	29.0	11.9	2.3965 ug/L	2.3965 ppb	04:59:08
3	Ti 334.940†	663.9	2103.3	3.4957 ug/L	3.4957 ppb	04:58:48
3	Tl 190.801†	-25.2	8.9	3.0294 ug/L	3.0294 ppb	04:59:08
3	U 409.014†	-2746.0	484.9	17.634 ug/L	17.634 ppb	04:58:48
3	V 292.402†	-1625.7	166.3	1.3860 ug/L	1.3860 ppb	04:58:48
3	Zn 213.857†	857.4	161.2	1.6754 ug/L	1.6754 ppb	04:59:08
3	SiO2†	48898.6	45419.7	3237.5 ug/L	3237.5 ppb	04:59:23

Mean Data: 246323001|950319|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	799900.5	106.46 %	0.833			0.78%
Sc Radial	3970.2	112 %	0.5			0.42%
Y 371.029	634417.8	107.81 %	0.726			0.67%
Y RADIAL	4509.1	112.8 %	1.31			1.16%
Ag 328.068†	-125.5	-0.6268 ug/L	0.17866	-0.6268 ppb	0.17866	28.50%
Al 396.153Radial†	106.4	103.41 ug/L	0.579	103.41 ppb	0.579	0.56%
As 188.979†	-4.4	-1.9731 ug/L	1.21337	-1.9731 ppb	1.21337	61.50%
B 249.677†	1206.4	29.935 ug/L	0.4756	29.935 ppb	0.4756	1.59%
Ba 233.527†	46.4	0.4017 ug/L	0.08681	0.4017 ppb	0.08681	21.61%
Be 313.107†	157.1	0.0695 ug/L	0.00831	0.0695 ppb	0.00831	11.95%
Ca 317.933Radial†	24.0	52.383 ug/L	2.2978	52.383 ppb	2.2978	4.39%
Cd 226.502†	28.4	0.3684 ug/L	0.10998	0.3684 ppb	0.10998	29.86%
Co 228.616†	12.0	0.2552 ug/L	0.24861	0.2552 ppb	0.24861	97.41%
Cr 267.716†	15.6	0.2090 ug/L	0.32521	0.2090 ppb	0.32521	155.57%
Cu 324.752†	-222.1	-0.6964 ug/L	0.10698	-0.6964 ppb	0.10698	15.36%
Fe 238.204 Radial†	7.2	103.51 ug/L	8.361	103.51 ppb	8.361	8.08%
K 766.490 Radial†	182.6	34.783 ug/L	13.8877	34.783 ppb	13.8877	39.93%

Mg 279.077 IEC†	-1.3	-63.982 ug/L	102.1439	-63.982 ppb	102.1439	159.65%
Mn 257.610†	2599.9	3.0894 ug/L	0.00580	3.0894 ppb	0.00580	0.19%
Mo 202.031†	9.1	0.7541 ug/L	0.52536	0.7541 ppb	0.52536	69.67%
Na 589.592 Radial†	-3712.8	-1274.2 ug/L	16.37	-1274.2 ppb	16.37	1.28%
Ni 231.604†	6.4	0.1809 ug/L	0.22578	0.1809 ppb	0.22578	124.79%
P 214.914†	13.9	8.5925 ug/L	2.99117	8.5925 ppb	2.99117	34.81%
Pb 220.353†	-59.1	-8.1874 ug/L	1.54817	-8.1874 ppb	1.54817	18.91%
S 181.975 Axial†	18.6	26.670 ug/L	4.6858	26.670 ppb	4.6858	17.57%
Sb 206.836†	-0.4	-0.1119 ug/L	1.10086	-0.1119 ppb	1.10086	983.63%
Se 196.026†	12.8	9.0614 ug/L	4.21800	9.0614 ppb	4.21800	46.55%
Si 251.611†	45942.1	1538.3 ug/L	3.10	1538.3 ppb	3.10	0.20%
Sn 189.927†	9.8	1.9752 ug/L	0.59313	1.9752 ppb	0.59313	30.03%
Sr 421.552†	-872.0	-6.5389 ug/L	1.78648	-6.5389 ppb	1.78648	27.32%
Ti 334.940†	2093.4	3.4797 ug/L	0.01388	3.4797 ppb	0.01388	0.40%
Tl 190.801†	6.5	2.2251 ug/L	1.83507	2.2251 ppb	1.83507	82.47%
U 409.014†	490.8	17.853 ug/L	3.4928	17.853 ppb	3.4928	19.56%
V 292.402†	211.4	1.7558 ug/L	0.52567	1.7558 ppb	0.52567	29.94%
Zn 213.857†	162.0	1.6846 ug/L	0.02090	1.6846 ppb	0.02090	1.24%
SiO2†	45710.3	3258.2 ug/L	43.66	3258.2 ppb	43.66	1.34%

Sequence No.: 111

Sample ID: 1202036427|950319|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 111

Date Collected: 2/20/2010 05:08:23

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202036427|950319|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4012.0	4012.0	113 %		05:10:37
1	Y RADIAL	4523.2	4523.2	113.1 %		05:10:17
1	Al 396.153Radial†	-36.1	81.4	79.059 ug/L	79.059 ppb	05:10:37
1	Ca 317.933Radial†	67.2	28.0	61.121 ug/L	61.121 ppb	05:10:37
1	Fe 238.204 Radial†	14.4	3.5	51.190 ug/L	51.190 ppb	05:10:37
1	K 766.490 Radial†	3605.5	34.3	6.9085 ug/L	6.9085 ppb	05:10:17
1	Mg 279.077 IEC†	4.5	1.3	65.576 ug/L	65.576 ppb	05:10:37
1	Na 589.592 Radial†	389.3	-3684.1	-1264.3 ug/L	-1264.3 ppb	05:10:17
1	Sr 421.552†	802.6	-733.9	-5.5037 ug/L	-5.5037 ppb	05:10:17
1	Sc 361.383	797509.2	797509.2	106.15 %		05:11:34
1	Y 371.029	631930.8	631930.8	107.39 %		05:11:34
1	Ag 328.068†	77.0	-253.9	-1.3107 ug/L	-1.3107 ppb	05:11:34
1	As 188.979†	-35.9	-13.1	-6.0461 ug/L	-6.0461 ppb	05:11:54
1	B 249.677†	635.8	1041.0	25.836 ug/L	25.836 ppb	05:11:34
1	Ba 233.527†	177.8	22.5	0.1974 ug/L	0.1974 ppb	05:11:54
1	Be 313.107†	-4534.7	83.7	0.0387 ug/L	0.0387 ppb	05:11:34
1	Cd 226.502†	-195.7	10.8	0.1417 ug/L	0.1417 ppb	05:11:54
1	Co 228.616†	-61.2	12.7	0.2753 ug/L	0.2753 ppb	05:11:54
1	Cr 267.716†	133.8	48.2	0.6287 ug/L	0.6287 ppb	05:11:54
1	Cu 324.752†	6486.6	-341.2	-1.0725 ug/L	-1.0725 ppb	05:11:34
1	Mn 257.610†	2860.8	2223.8	2.6339 ug/L	2.6339 ppb	05:11:34
1	Mo 202.031†	29.2	17.5	1.4384 ug/L	1.4384 ppb	05:11:54
1	Ni 231.604†	91.4	7.0	0.1986 ug/L	0.1986 ppb	05:11:54
1	P 214.914†	228.2	3.9	2.5633 ug/L	2.5633 ppb	05:11:54
1	Pb 220.353†	-50.2	-68.1	-9.4411 ug/L	-9.4411 ppb	05:11:54
1	S 181.975 Axial†	56.8	16.1	23.132 ug/L	23.132 ppb	05:11:54
1	Sb 206.836†	26.5	-11.4	-4.1566 ug/L	-4.1566 ppb	05:11:54
1	Se 196.026†	-16.5	13.7	9.5006 ug/L	9.5006 ppb	05:11:54
1	Si 251.611†	48700.2	45383.6	1519.6 ug/L	1519.6 ppb	05:11:34
1	Sn 189.927†	18.4	2.0	0.4061 ug/L	0.4061 ppb	05:11:54
1	Ti 334.940†	68.9	1544.8	2.5576 ug/L	2.5576 ppb	05:11:34
1	Tl 190.801†	-27.4	6.7	2.2871 ug/L	2.2871 ppb	05:11:54
1	U 409.014†	-2603.2	610.6	22.218 ug/L	22.218 ppb	05:11:34
1	V 292.402†	-1542.5	239.6	2.0156 ug/L	2.0156 ppb	05:11:34
1	Zn 213.857†	839.1	146.7	1.5322 ug/L	1.5322 ppb	05:11:54
1	SiO2†	49068.2	45734.6	3259.9 ug/L	3259.9 ppb	05:12:50
2	Sc Radial	4056.8	4056.8	115 %		05:11:02
2	Y RADIAL	4566.8	4566.8	114.2 %		05:10:42
2	Al 396.153Radial†	-34.5	83.2	80.880 ug/L	80.880 ppb	05:11:02
2	Ca 317.933Radial†	67.1	27.2	59.475 ug/L	59.475 ppb	05:11:02
2	Fe 238.204 Radial†	14.3	3.3	47.616 ug/L	47.616 ppb	05:11:02
2	K 766.490 Radial†	3633.2	23.4	4.8670 ug/L	4.8670 ppb	05:10:42
2	Mg 279.077 IEC†	2.8	-0.3	-12.792 ug/L	-12.792 ppb	05:11:02
2	Na 589.592 Radial†	410.8	-3669.2	-1259.2 ug/L	-1259.2 ppb	05:10:42
2	Sr 421.552†	448.2	-1050.7	-7.8790 ug/L	-7.8790 ppb	05:10:42
2	Sc 361.383	805942.3	805942.3	107.27 %		05:11:59
2	Y 371.029	639212.7	639212.7	108.62 %		05:11:59
2	Ag 328.068†	207.1	-133.3	-0.6802 ug/L	-0.6802 ppb	05:11:59
2	As 188.979†	-28.6	-6.0	-2.7568 ug/L	-2.7568 ppb	05:12:19
2	B 249.677†	642.8	1041.2	25.842 ug/L	25.842 ppb	05:11:59
2	Ba 233.527†	162.2	6.2	0.0580 ug/L	0.0580 ppb	05:12:19
2	Be 313.107†	-4507.0	154.2	0.0663 ug/L	0.0663 ppb	05:11:59
2	Cd 226.502†	-187.2	20.6	0.2704 ug/L	0.2704 ppb	05:12:19
2	Co 228.616†	-55.1	18.9	0.4079 ug/L	0.4079 ppb	05:12:19
2	Cr 267.716†	125.3	39.0	0.5113 ug/L	0.5113 ppb	05:12:19
2	Cu 324.752†	6653.2	-249.9	-0.7832 ug/L	-0.7832 ppb	05:11:59
2	Mn 257.610†	2925.1	2255.5	2.6743 ug/L	2.6743 ppb	05:11:59
2	Mo 202.031†	7.3	-3.2	-0.2547 ug/L	-0.2547 ppb	05:12:19
2	Ni 231.604†	91.9	6.6	0.1868 ug/L	0.1868 ppb	05:12:19

2	P 214.914†	236.9	9.7	6.0873 ug/L	6.0873 ppb	05:12:19
2	Pb 220.353†	-44.6	-62.5	-8.6586 ug/L	-8.6586 ppb	05:12:19
2	S 181.975 Axial†	56.9	15.7	22.503 ug/L	22.503 ppb	05:12:19
2	Sb 206.836†	36.4	-2.5	-0.9076 ug/L	-0.9076 ppb	05:12:19
2	Se 196.026†	-24.4	6.5	4.6084 ug/L	4.6084 ppb	05:12:19
2	Si 251.611†	49391.0	45547.5	1525.1 ug/L	1525.1 ppb	05:11:59
2	Sn 189.927†	18.8	2.2	0.4429 ug/L	0.4429 ppb	05:12:19
2	Ti 334.940†	75.2	1550.0	2.5763 ug/L	2.5763 ppb	05:11:59
2	Tl 190.801†	-21.1	12.9	4.3460 ug/L	4.3460 ppb	05:12:19
2	U 409.014†	-2895.9	363.4	13.220 ug/L	13.220 ppb	05:11:59
2	V 292.402†	-1576.4	223.2	1.8393 ug/L	1.8393 ppb	05:11:59
2	Zn 213.857†	830.2	130.2	1.3591 ug/L	1.3591 ppb	05:12:19
2	SiO2†	49119.5	45298.7	3228.9 ug/L	3228.9 ppb	05:12:55
3	Sc Radial	4050.8	4050.8	115 %		05:11:27
3	Y RADIAL	4552.0	4552.0	113.8 %		05:11:07
3	Al 396.153Radial†	-36.9	81.0	78.763 ug/L	78.763 ppb	05:11:27
3	Ca 317.933Radial†	64.2	24.8	54.215 ug/L	54.215 ppb	05:11:27
3	Fe 238.204 Radial†	15.7	4.5	65.523 ug/L	65.523 ppb	05:11:27
3	K 766.490 Radial†	3711.9	96.7	18.653 ug/L	18.653 ppb	05:11:07
3	Mg 279.077 IEC†	2.2	-0.7	-35.884 ug/L	-35.884 ppb	05:11:27
3	Na 589.592 Radial†	366.9	-3707.0	-1272.2 ug/L	-1272.2 ppb	05:11:07
3	Sr 421.552†	669.1	-857.2	-6.4280 ug/L	-6.4280 ppb	05:11:07
3	Sc 361.383	801452.5	801452.5	106.67 %		05:12:24
3	Y 371.029	635507.1	635507.1	107.99 %		05:12:24
3	Ag 328.068†	249.5	-92.5	-0.4714 ug/L	-0.4714 ppb	05:12:24
3	As 188.979†	-28.6	-6.1	-2.7818 ug/L	-2.7818 ppb	05:12:44
3	B 249.677†	645.6	1047.2	25.988 ug/L	25.988 ppb	05:12:24
3	Ba 233.527†	185.6	28.9	0.2522 ug/L	0.2522 ppb	05:12:44
3	Be 313.107†	-4529.6	109.5	0.0490 ug/L	0.0490 ppb	05:12:24
3	Cd 226.502†	-167.4	38.2	0.5034 ug/L	0.5034 ppb	05:12:44
3	Co 228.616†	-68.7	5.9	0.1237 ug/L	0.1237 ppb	05:12:44
3	Cr 267.716†	118.8	33.6	0.4387 ug/L	0.4387 ppb	05:12:44
3	Cu 324.752†	6566.9	-296.0	-0.9313 ug/L	-0.9313 ppb	05:12:24
3	Mn 257.610†	2898.4	2245.8	2.6655 ug/L	2.6655 ppb	05:12:24
3	Mo 202.031†	19.4	8.2	0.6799 ug/L	0.6799 ppb	05:12:44
3	Ni 231.604†	98.0	12.8	0.3633 ug/L	0.3633 ppb	05:12:44
3	P 214.914†	238.3	12.3	7.6917 ug/L	7.6917 ppb	05:12:44
3	Pb 220.353†	-48.6	-66.5	-9.2123 ug/L	-9.2123 ppb	05:12:44
3	S 181.975 Axial†	55.8	14.9	21.450 ug/L	21.450 ppb	05:12:44
3	Sb 206.836†	38.0	-0.8	-0.2239 ug/L	-0.2239 ppb	05:12:44
3	Se 196.026†	-17.2	13.2	9.1791 ug/L	9.1791 ppb	05:12:44
3	Si 251.611†	49110.2	45542.2	1524.9 ug/L	1524.9 ppb	05:12:24
3	Sn 189.927†	33.4	16.0	3.2274 ug/L	3.2274 ppb	05:12:44
3	Ti 334.940†	126.2	1598.3	2.6535 ug/L	2.6535 ppb	05:12:24
3	Tl 190.801†	-33.2	1.5	0.5239 ug/L	0.5239 ppb	05:12:44
3	U 409.014†	-2598.5	627.1	22.816 ug/L	22.816 ppb	05:12:24
3	V 292.402†	-1580.4	211.1	1.7693 ug/L	1.7693 ppb	05:12:24
3	Zn 213.857†	834.3	138.4	1.4413 ug/L	1.4413 ppb	05:12:44
3	SiO2†	49578.4	45985.4	3277.8 ug/L	3277.8 ppb	05:13:00

Mean Data: 1202036427|950319|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	801634.7	106.70 %		0.562			0.53%
Sc Radial	4039.9	114 %		0.7			0.60%
Y 371.029	635550.2	108.00 %		0.619			0.57%
Y RADIAL	4547.4	113.7 %		0.55			0.49%
Ag 328.068†	-159.9	-0.8207 ug/L		0.43696	-0.8207 ppb	0.43696	53.24%
Al 396.153Radial†	81.9	79.567 ug/L		1.1466	79.567 ppb	1.1466	1.44%
As 188.979†	-8.4	-3.8615 ug/L		1.89189	-3.8615 ppb	1.89189	48.99%
B 249.677†	1043.1	25.889 ug/L		0.0859	25.889 ppb	0.0859	0.33%
Ba 233.527†	19.2	0.1692 ug/L		0.10010	0.1692 ppb	0.10010	59.17%
Be 313.107†	115.8	0.0513 ug/L		0.01399	0.0513 ppb	0.01399	27.25%
Ca 317.933Radial†	26.7	58.270 ug/L		3.6070	58.270 ppb	3.6070	6.19%
Cd 226.502†	23.2	0.3052 ug/L		0.18331	0.3052 ppb	0.18331	60.07%
Co 228.616†	12.5	0.2690 ug/L		0.14222	0.2690 ppb	0.14222	52.87%
Cr 267.716†	40.3	0.5262 ug/L		0.09590	0.5262 ppb	0.09590	18.22%
Cu 324.752†	-295.7	-0.9290 ug/L		0.14467	-0.9290 ppb	0.14467	15.57%
Fe 238.204 Radial†	3.8	54.776 ug/L		9.4767	54.776 ppb	9.4767	17.30%
K 766.490 Radial†	51.5	10.143 ug/L		7.4404	10.143 ppb	7.4404	73.36%

Mg 279.077 IEC†	0.1	5.6332 ug/L	53.18023	5.6332 ppb	53.18023	944.05%
Mn 257.610†	2241.7	2.6579 ug/L	0.02123	2.6579 ppb	0.02123	0.80%
Mo 202.031†	7.5	0.6212 ug/L	0.84805	0.6212 ppb	0.84805	136.52%
Na 589.592 Radial†	-3686.8	-1265.3 ug/L	6.53	-1265.3 ppb	6.53	0.52%
Ni 231.604†	8.8	0.2496 ug/L	0.09864	0.2496 ppb	0.09864	39.53%
P 214.914†	8.6	5.4474 ug/L	2.62341	5.4474 ppb	2.62341	48.16%
Pb 220.353†	-65.7	-9.1040 ug/L	0.40234	-9.1040 ppb	0.40234	4.42%
S 181.975 Axial†	15.6	22.361 ug/L	0.8498	22.361 ppb	0.8498	3.80%
Sb 206.836†	-4.9	-1.7627 ug/L	2.10120	-1.7627 ppb	2.10120	119.20%
Se 196.026†	11.2	7.7627 ug/L	2.73645	7.7627 ppb	2.73645	35.25%
Si 251.611†	45491.1	1523.2 ug/L	3.13	1523.2 ppb	3.13	0.21%
Sn 189.927†	6.7	1.3588 ug/L	1.61836	1.3588 ppb	1.61836	119.10%
Sr 421.552†	-880.6	-6.6036 ug/L	1.19736	-6.6036 ppb	1.19736	18.13%
Ti 334.940†	1564.4	2.5958 ug/L	0.05082	2.5958 ppb	0.05082	1.96%
Tl 190.801†	7.0	2.3857 ug/L	1.91295	2.3857 ppb	1.91295	80.18%
U 409.014†	533.7	19.418 ug/L	5.3759	19.418 ppb	5.3759	27.68%
V 292.402†	224.6	1.8747 ug/L	0.12692	1.8747 ppb	0.12692	6.77%
Zn 213.857†	138.4	1.4442 ug/L	0.08656	1.4442 ppb	0.08656	5.99%
SiO2†	45672.9	3255.6 ug/L	24.75	3255.6 ppb	24.75	0.76%

Sequence No.: 112

Sample ID: 1202036428|950319|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 112

Date Collected: 2/20/2010 05:15:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202036428|950319|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4000.3	4000.3	113 %		05:17:26
1	Y RADIAL	4512.0	4512.0	112.8 %		05:17:06
1	Al 396.153Radial†	5614.3	5077.2	4913.4 ug/L	4913.4 ppb	05:17:06
1	Ca 317.933Radial†	2598.1	2265.9	4949.9 ug/L	4949.9 ppb	05:17:26
1	Fe 238.204 Radial†	405.5	349.4	5068.0 ug/L	5068.0 ppb	05:17:26
1	K 766.490 Radial†	32491.8	25583.6	4803.4 ug/L	4803.4 ppb	05:17:06
1	Mg 279.077 IEC†	113.5	97.7	4963.7 ug/L	4963.7 ppb	05:17:26
1	Na 589.592 Radial†	17277.6	11248.8	3860.5 ug/L	3860.5 ppb	05:17:06
1	Sr 421.552†	75221.0	65065.6	487.86 ug/L	487.86 ppb	05:17:06
1	Sc 361.383	821801.8	821801.8	109.38 %		05:18:24
1	Y 371.029	644598.4	644598.4	109.54 %		05:18:24
1	Ag 328.068†	102351.4	93247.8	486.19 ug/L	486.19 ppb	05:18:24
1	As 188.979†	1108.1	1033.8	483.28 ug/L	483.28 ppb	05:18:44
1	B 249.677†	21746.3	20323.4	502.44 ug/L	502.44 ppb	05:18:24
1	Ba 233.527†	62882.2	57344.7	489.35 ug/L	489.35 ppb	05:18:24
1	Be 313.107†	1332468.8	1222557.8	480.82 ug/L	480.82 ppb	05:18:24
1	Cd 226.502†	38026.1	34960.3	462.07 ug/L	462.07 ppb	05:18:44
1	Co 228.616†	23063.8	21156.3	463.61 ug/L	463.61 ppb	05:18:44
1	Cr 267.716†	39981.1	36474.6	477.67 ug/L	477.67 ppb	05:18:24
1	Cu 324.752†	181234.1	159240.1	496.05 ug/L	496.05 ppb	05:18:24
1	Mn 257.610†	446614.7	407843.6	482.91 ug/L	482.91 ppb	05:18:24
1	Mo 202.031†	6293.2	5743.5	470.42 ug/L	470.42 ppb	05:18:44
1	Ni 231.604†	18244.9	16601.2	472.04 ug/L	472.04 ppb	05:18:44
1	P 214.914†	1180.5	868.1	433.70 ug/L	433.70 ppb	05:18:44
1	Pb 220.353†	3733.2	3392.1	473.20 ug/L	473.20 ppb	05:18:44
1	S 181.975 Axial†	3669.7	3317.6	4770.5 ug/L	4770.5 ppb	05:18:44
1	Sb 206.836†	1518.4	1351.9	512.78 ug/L	512.78 ppb	05:18:44
1	Se 196.026†	722.8	690.1	487.10 ug/L	487.10 ppb	05:18:44
1	Si 251.611†	207097.5	188841.2	6317.3 ug/L	6317.3 ppb	05:18:24
1	Sn 189.927†	2700.7	2453.7	494.60 ug/L	494.60 ppb	05:18:44
1	Ti 334.940†	320552.2	294543.0	488.84 ug/L	488.84 ppb	05:18:24
1	Tl 190.801†	1529.5	1430.9	483.83 ug/L	483.83 ppb	05:18:44
1	U 409.014†	12897.1	14854.2	539.00 ug/L	539.00 ppb	05:18:24
1	V 292.402†	63426.2	59679.8	495.12 ug/L	495.12 ppb	05:18:24
1	Zn 213.857†	50365.5	45402.6	472.03 ug/L	472.03 ppb	05:18:24
1	SiO2†	206927.4	188690.0	13437 ug/L	13437 ppb	05:19:45
2	Sc Radial	3956.2	3956.2	112 %		05:17:51
2	Y RADIAL	4540.0	4540.0	113.5 %		05:17:31
2	Al 396.153Radial†	5639.0	5154.5	4988.4 ug/L	4988.4 ppb	05:17:31
2	Ca 317.933Radial†	2570.7	2266.9	4952.2 ug/L	4952.2 ppb	05:17:51
2	Fe 238.204 Radial†	399.0	347.6	5042.0 ug/L	5042.0 ppb	05:17:51
2	K 766.490 Radial†	32633.0	26029.9	4887.2 ug/L	4887.2 ppb	05:17:31
2	Mg 279.077 IEC†	112.0	97.4	4951.3 ug/L	4951.3 ppb	05:17:51
2	Na 589.592 Radial†	17272.3	11414.2	3917.2 ug/L	3917.2 ppb	05:17:31
2	Sr 421.552†	75846.4	66365.7	497.61 ug/L	497.61 ppb	05:17:31
2	Sc 361.383	815819.1	815819.1	108.58 %		05:18:52
2	Y 371.029	641122.1	641122.1	108.95 %		05:18:52
2	Ag 328.068†	101658.8	93296.2	486.44 ug/L	486.44 ppb	05:18:52
2	As 188.979†	1108.4	1041.5	486.83 ug/L	486.83 ppb	05:19:12
2	B 249.677†	21599.7	20334.1	502.70 ug/L	502.70 ppb	05:18:52
2	Ba 233.527†	62452.8	57370.8	489.57 ug/L	489.57 ppb	05:18:52
2	Be 313.107†	1325858.5	1225403.5	481.94 ug/L	481.94 ppb	05:18:52
2	Cd 226.502†	38092.5	35276.4	466.25 ug/L	466.25 ppb	05:19:12
2	Co 228.616†	23030.9	21280.6	466.34 ug/L	466.34 ppb	05:19:12
2	Cr 267.716†	39914.4	36681.3	480.37 ug/L	480.37 ppb	05:18:52
2	Cu 324.752†	179959.1	159280.9	496.17 ug/L	496.17 ppb	05:18:52
2	Mn 257.610†	443922.3	408358.4	483.52 ug/L	483.52 ppb	05:18:52
2	Mo 202.031†	6296.2	5788.5	474.10 ug/L	474.10 ppb	05:19:12
2	Ni 231.604†	18269.2	16745.9	476.15 ug/L	476.15 ppb	05:19:12

2	P 214.914†	1198.2	892.4	448.61 ug/L	448.61 ppb	05:19:12
2	Pb 220.353†	3748.0	3430.9	478.61 ug/L	478.61 ppb	05:19:12
2	S 181.975 Axial†	3681.5	3353.1	4821.5 ug/L	4821.5 ppb	05:19:12
2	Sb 206.836†	1518.7	1362.3	516.78 ug/L	516.78 ppb	05:19:12
2	Se 196.026†	729.5	701.2	494.51 ug/L	494.51 ppb	05:19:12
2	Si 251.611†	205775.6	189012.3	6323.0 ug/L	6323.0 ppb	05:18:52
2	Sn 189.927†	2716.8	2486.7	501.24 ug/L	501.24 ppb	05:19:12
2	Ti 334.940†	318142.7	294473.1	488.73 ug/L	488.73 ppb	05:18:52
2	Tl 190.801†	1522.9	1435.1	485.23 ug/L	485.23 ppb	05:19:12
2	U 409.014†	12879.8	14924.7	541.56 ug/L	541.56 ppb	05:18:52
2	V 292.402†	63088.2	59793.7	496.11 ug/L	496.11 ppb	05:18:52
2	Zn 213.857†	50008.7	45411.7	472.11 ug/L	472.11 ppb	05:18:52
2	SiO2†	205758.0	189000.4	13459 ug/L	13459 ppb	05:19:50
3	Sc Radial	4017.0	4017.0	114 %		05:18:16
3	Y RADIAL	4400.2	4400.2	110.0 %		05:17:56
3	Al 396.153Radial†	5474.1	4933.1	4773.1 ug/L	4773.1 ppb	05:17:56
3	Ca 317.933Radial†	2595.9	2254.4	4924.8 ug/L	4924.8 ppb	05:18:16
3	Fe 238.204 Radial†	401.4	344.3	4994.8 ug/L	4994.8 ppb	05:18:16
3	K 766.490 Radial†	31754.6	24815.1	4659.1 ug/L	4659.1 ppb	05:17:56
3	Mg 279.077 IEC†	109.0	93.3	4740.7 ug/L	4740.7 ppb	05:18:16
3	Na 589.592 Radial†	16667.0	10647.6	3654.1 ug/L	3654.1 ppb	05:17:56
3	Sr 421.552†	72873.9	62722.6	470.29 ug/L	470.29 ppb	05:17:56
3	Sc 361.383	816902.7	816902.7	108.73 %		05:19:19
3	Y 371.029	640745.8	640745.8	108.88 %		05:19:19
3	Ag 328.068†	101837.3	93336.2	486.64 ug/L	486.64 ppb	05:19:19
3	As 188.979†	1109.5	1041.1	486.66 ug/L	486.66 ppb	05:19:39
3	B 249.677†	21620.7	20327.1	502.53 ug/L	502.53 ppb	05:19:19
3	Ba 233.527†	62711.9	57532.8	490.95 ug/L	490.95 ppb	05:19:19
3	Be 313.107†	1326628.4	1224491.9	481.58 ug/L	481.58 ppb	05:19:19
3	Cd 226.502†	38246.5	35371.5	467.51 ug/L	467.51 ppb	05:19:39
3	Co 228.616†	23112.5	21327.5	467.37 ug/L	467.37 ppb	05:19:39
3	Cr 267.716†	39911.6	36630.0	479.70 ug/L	479.70 ppb	05:19:19
3	Cu 324.752†	180143.6	159230.7	496.02 ug/L	496.02 ppb	05:19:19
3	Mn 257.610†	445646.5	409401.9	484.76 ug/L	484.76 ppb	05:19:19
3	Mo 202.031†	6317.1	5800.1	475.04 ug/L	475.04 ppb	05:19:39
3	Ni 231.604†	18302.5	16754.2	476.39 ug/L	476.39 ppb	05:19:39
3	P 214.914†	1195.5	888.4	446.20 ug/L	446.20 ppb	05:19:39
3	Pb 220.353†	3743.6	3422.2	477.36 ug/L	477.36 ppb	05:19:39
3	S 181.975 Axial†	3683.5	3350.5	4817.7 ug/L	4817.7 ppb	05:19:39
3	Sb 206.836†	1518.5	1360.2	516.04 ug/L	516.04 ppb	05:19:39
3	Se 196.026†	708.4	680.8	480.55 ug/L	480.55 ppb	05:19:39
3	Si 251.611†	206433.4	189365.9	6334.8 ug/L	6334.8 ppb	05:19:19
3	Sn 189.927†	2716.6	2483.2	500.53 ug/L	500.53 ppb	05:19:39
3	Ti 334.940†	319281.1	295131.4	489.84 ug/L	489.84 ppb	05:19:19
3	Tl 190.801†	1524.5	1434.7	485.10 ug/L	485.10 ppb	05:19:39
3	U 409.014†	12722.8	14764.6	535.74 ug/L	535.74 ppb	05:19:19
3	V 292.402†	63257.4	59872.2	496.76 ug/L	496.76 ppb	05:19:19
3	Zn 213.857†	50231.8	45555.8	473.62 ug/L	473.62 ppb	05:19:19
3	SiO2†	205347.2	188371.2	13414 ug/L	13414 ppb	05:19:55

Mean Data: 1202036428|950319|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	818174.5	108.90 %	0.424			0.39%
Sc Radial	3991.1	113 %	0.9			0.79%
Y 371.029	642155.4	109.12 %	0.361			0.33%
Y RADIAL	4484.1	112.1 %	1.85			1.65%
Ag 328.068†	93293.4	486.42 ug/L	0.223	486.42 ppb	0.223	0.05%
Al 396.153Radial†	5054.9	4891.6 ug/L	109.30	4891.6 ppb	109.30	2.23%
As 188.979†	1038.8	485.59 ug/L	2.004	485.59 ppb	2.004	0.41%
B 249.677†	20328.2	502.55 ug/L	0.134	502.55 ppb	0.134	0.03%
Ba 233.527†	57416.1	489.95 ug/L	0.868	489.95 ppb	0.868	0.18%
Be 313.107†	1224151.1	481.45 ug/L	0.570	481.45 ppb	0.570	0.12%
Ca 317.933Radial†	2262.4	4942.3 ug/L	15.19	4942.3 ppb	15.19	0.31%
Cd 226.502†	35202.7	465.28 ug/L	2.851	465.28 ppb	2.851	0.61%
Co 228.616†	21254.8	465.77 ug/L	1.944	465.77 ppb	1.944	0.42%
Cr 267.716†	36595.3	479.25 ug/L	1.405	479.25 ppb	1.405	0.29%
Cu 324.752†	159250.6	496.08 ug/L	0.082	496.08 ppb	0.082	0.02%
Fe 238.204 Radial†	347.1	5035.0 ug/L	37.10	5035.0 ppb	37.10	0.74%
K 766.490 Radial†	25476.2	4783.2 ug/L	115.41	4783.2 ppb	115.41	2.41%

Mg 279.077 IEC†	96.1	4885.2 ug/L	125.34	4885.2 ppb	125.34	2.57%
Mn 257.610†	408534.6	483.73 ug/L	0.941	483.73 ppb	0.941	0.19%
Mo 202.031†	5777.4	473.19 ug/L	2.441	473.19 ppb	2.441	0.52%
Na 589.592 Radial†	11103.5	3810.6 ug/L	138.45	3810.6 ppb	138.45	3.63%
Ni 231.604†	16700.4	474.86 ug/L	2.447	474.86 ppb	2.447	0.52%
P 214.914†	883.0	442.83 ug/L	8.002	442.83 ppb	8.002	1.81%
Pb 220.353†	3415.1	476.39 ug/L	2.831	476.39 ppb	2.831	0.59%
S 181.975 Axial†	3340.4	4803.2 ug/L	28.43	4803.2 ppb	28.43	0.59%
Sb 206.836†	1358.1	515.20 ug/L	2.128	515.20 ppb	2.128	0.41%
Se 196.026†	690.7	487.39 ug/L	6.981	487.39 ppb	6.981	1.43%
Si 251.611†	189073.1	6325.0 ug/L	8.93	6325.0 ppb	8.93	0.14%
Sn 189.927†	2474.6	498.79 ug/L	3.649	498.79 ppb	3.649	0.73%
Sr 421.552†	64718.0	485.25 ug/L	13.844	485.25 ppb	13.844	2.85%
Ti 334.940†	294715.8	489.13 ug/L	0.610	489.13 ppb	0.610	0.12%
Tl 190.801†	1433.6	484.72 ug/L	0.773	484.72 ppb	0.773	0.16%
U 409.014†	14847.8	538.77 ug/L	2.918	538.77 ppb	2.918	0.54%
V 292.402†	59781.9	495.99 ug/L	0.826	495.99 ppb	0.826	0.17%
Zn 213.857†	45456.7	472.59 ug/L	0.898	472.59 ppb	0.898	0.19%
SiO2†	188687.2	13437 ug/L	22.4	13437 ppb	22.4	0.17%

Sequence No.: 113

Sample ID: 1202036429|950319|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 113

Date Collected: 2/20/2010 05:22:07

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202036429|950319|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3961.0	3961.0	112 %		05:24:21
1	Y RADIAL	4511.3	4511.3	112.8 %		05:24:01
1	Al 396.153Radial†	-97.4	26.3	25.549 ug/L	25.549 ppb	05:24:21
1	Ca 317.933Radial†	55.6	18.4	40.235 ug/L	40.235 ppb	05:24:21
1	Fe 238.204 Radial†	12.1	1.7	24.530 ug/L	24.530 ppb	05:24:21
1	K 766.490 Radial†	3054.2	-417.0	-77.826 ug/L	-77.826 ppb	05:24:01
1	Mg 279.077 IEC†	1.7	-1.1	-55.733 ug/L	-55.733 ppb	05:24:21
1	Na 589.592 Radial†	-56.8	-4078.0	-1399.5 ug/L	-1399.5 ppb	05:24:01
1	Sr 421.552†	585.6	-918.6	-6.8882 ug/L	-6.8882 ppb	05:24:01
1	Sc 361.383	791457.9	791457.9	105.34 %		05:25:17
1	Y 371.029	628583.3	628583.3	106.82 %		05:25:17
1	Ag 328.068†	226.6	-111.2	-0.5780 ug/L	-0.5780 ppb	05:25:17
1	As 188.979†	-28.3	-6.2	-2.8555 ug/L	-2.8555 ppb	05:25:37
1	B 249.677†	-44.2	400.0	9.9254 ug/L	9.9254 ppb	05:25:37
1	Ba 233.527†	135.1	-16.8	-0.1393 ug/L	-0.1393 ppb	05:25:37
1	Be 313.107†	-4572.0	15.6	0.0083 ug/L	0.0083 ppb	05:25:17
1	Cd 226.502†	-201.5	3.9	0.0522 ug/L	0.0522 ppb	05:25:37
1	Co 228.616†	-59.0	14.3	0.3123 ug/L	0.3123 ppb	05:25:37
1	Cr 267.716†	85.4	3.3	0.0405 ug/L	0.0405 ppb	05:25:37
1	Cu 324.752†	6132.6	-630.5	-1.9724 ug/L	-1.9724 ppb	05:25:17
1	Mn 257.610†	1026.9	503.6	0.6006 ug/L	0.6006 ppb	05:25:37
1	Mo 202.031†	14.5	3.8	0.3153 ug/L	0.3153 ppb	05:25:37
1	Ni 231.604†	94.7	10.7	0.3053 ug/L	0.3053 ppb	05:25:37
1	P 214.914†	218.6	-3.6	-1.8447 ug/L	-1.8447 ppb	05:25:37
1	Pb 220.353†	-62.4	-80.1	-11.116 ug/L	-11.116 ppb	05:25:37
1	S 181.975 Axial†	38.9	-0.5	-0.6756 ug/L	-0.6756 ppb	05:25:37
1	Sb 206.836†	30.5	-7.4	-2.7237 ug/L	-2.7237 ppb	05:25:37
1	Se 196.026†	-22.9	7.5	5.1987 ug/L	5.1987 ppb	05:25:37
1	Si 251.611†	10411.7	9387.2	314.31 ug/L	314.31 ppb	05:25:17
1	Sn 189.927†	16.2	0.0	0.0132 ug/L	0.0132 ppb	05:25:37
1	Ti 334.940†	-939.9	587.7	0.9781 ug/L	0.9781 ppb	05:25:17
1	Tl 190.801†	-17.7	15.7	5.2813 ug/L	5.2813 ppb	05:25:37
1	U 409.014†	-2732.2	469.4	17.083 ug/L	17.083 ppb	05:25:17
1	V 292.402†	-1616.1	158.6	1.3301 ug/L	1.3301 ppb	05:25:17
1	Zn 213.857†	792.7	108.8	1.1383 ug/L	1.1383 ppb	05:25:37
1	SiO2†	10476.3	9452.9	673.80 ug/L	673.80 ppb	05:26:33
2	Sc Radial	4002.7	4002.7	113 %		05:24:46
2	Y RADIAL	4470.2	4470.2	111.8 %		05:24:26
2	Al 396.153Radial†	-103.4	21.9	21.252 ug/L	21.252 ppb	05:24:46
2	Ca 317.933Radial†	52.4	15.1	32.953 ug/L	32.953 ppb	05:24:46
2	Fe 238.204 Radial†	10.0	-0.3	-4.7257 ug/L	-4.7257 ppb	05:24:46
2	K 766.490 Radial†	3028.8	-467.9	-87.379 ug/L	-87.379 ppb	05:24:26
2	Mg 279.077 IEC†	1.2	-1.6	-82.582 ug/L	-82.582 ppb	05:24:46
2	Na 589.592 Radial†	-111.0	-4125.4	-1415.8 ug/L	-1415.8 ppb	05:24:26
2	Sr 421.552†	500.1	-999.5	-7.4952 ug/L	-7.4952 ppb	05:24:26
2	Sc 361.383	794606.2	794606.2	105.76 %		05:25:43
2	Y 371.029	631273.0	631273.0	107.27 %		05:25:43
2	Ag 328.068†	214.6	-123.4	-0.6483 ug/L	-0.6483 ppb	05:25:43
2	As 188.979†	-24.3	-2.3	-1.0707 ug/L	-1.0707 ppb	05:26:03
2	B 249.677†	-73.9	372.1	9.2369 ug/L	9.2369 ppb	05:26:03
2	Ba 233.527†	138.2	-14.4	-0.1192 ug/L	-0.1192 ppb	05:26:03
2	Be 313.107†	-4543.7	59.6	0.0254 ug/L	0.0254 ppb	05:25:43
2	Cd 226.502†	-189.7	15.8	0.2120 ug/L	0.2120 ppb	05:26:03
2	Co 228.616†	-54.7	18.6	0.4084 ug/L	0.4084 ppb	05:26:03
2	Cr 267.716†	91.6	8.8	0.1098 ug/L	0.1098 ppb	05:26:03
2	Cu 324.752†	6186.6	-602.5	-1.8864 ug/L	-1.8864 ppb	05:25:43
2	Mn 257.610†	1038.5	510.6	0.6071 ug/L	0.6071 ppb	05:26:03
2	Mo 202.031†	21.7	10.5	0.8617 ug/L	0.8617 ppb	05:26:03
2	Ni 231.604†	89.6	5.6	0.1582 ug/L	0.1582 ppb	05:26:03

2	P 214.914†	231.8	8.1	5.3472 ug/L	5.3472 ppb	05:26:03
2	Pb 220.353†	-55.9	-73.7	-10.234 ug/L	-10.234 ppb	05:26:03
2	S 181.975 Axial†	47.9	7.9	11.375 ug/L	11.375 ppb	05:26:03
2	Sb 206.836†	24.2	-13.5	-4.8967 ug/L	-4.8967 ppb	05:26:03
2	Se 196.026†	-24.7	6.0	4.0283 ug/L	4.0283 ppb	05:26:03
2	Si 251.611†	10442.8	9377.6	313.98 ug/L	313.98 ppb	05:25:43
2	Sn 189.927†	22.1	5.5	1.1182 ug/L	1.1182 ppb	05:26:03
2	Ti 334.940†	-1005.1	529.6	0.8830 ug/L	0.8830 ppb	05:25:43
2	Tl 190.801†	-28.2	5.8	1.9672 ug/L	1.9672 ppb	05:26:03
2	U 409.014†	-2758.9	454.5	16.541 ug/L	16.541 ppb	05:25:43
2	V 292.402†	-1575.3	203.2	1.7064 ug/L	1.7064 ppb	05:25:43
2	Zn 213.857†	794.9	107.9	1.1342 ug/L	1.1342 ppb	05:26:03
2	SiO2†	10428.0	9367.8	667.72 ug/L	667.72 ppb	05:26:39
3	Sc Radial	3996.2	3996.2	113 %		05:25:11
3	Y RADIAL	4487.0	4487.0	112.2 %		05:24:51
3	Al 396.153Radial†	-75.7	46.3	44.988 ug/L	44.988 ppb	05:25:11
3	Ca 317.933Radial†	50.2	13.2	28.830 ug/L	28.830 ppb	05:25:11
3	Fe 238.204 Radial†	13.1	2.4	35.120 ug/L	35.120 ppb	05:25:11
3	K 766.490 Radial†	3055.2	-440.2	-82.168 ug/L	-82.168 ppb	05:24:51
3	Mg 279.077 IEC†	-0.1	-2.8	-141.22 ug/L	-141.22 ppb	05:25:11
3	Na 589.592 Radial†	-135.0	-4146.8	-1423.1 ug/L	-1423.1 ppb	05:24:51
3	Sr 421.552†	245.7	-1224.0	-9.1784 ug/L	-9.1784 ppb	05:24:51
3	Sc 361.383	790169.4	790169.4	105.17 %		05:26:08
3	Y 371.029	626845.8	626845.8	106.52 %		05:26:08
3	Ag 328.068†	134.7	-198.2	-1.0258 ug/L	-1.0258 ppb	05:26:08
3	As 188.979†	-28.6	-6.5	-2.9905 ug/L	-2.9905 ppb	05:26:28
3	B 249.677†	-88.4	357.9	8.8792 ug/L	8.8792 ppb	05:26:28
3	Ba 233.527†	137.2	-14.5	-0.1200 ug/L	-0.1200 ppb	05:26:28
3	Be 313.107†	-4574.1	6.5	0.0046 ug/L	0.0046 ppb	05:26:08
3	Cd 226.502†	-184.5	19.8	0.2609 ug/L	0.2609 ppb	05:26:28
3	Co 228.616†	-63.6	9.8	0.2130 ug/L	0.2130 ppb	05:26:28
3	Cr 267.716†	106.6	23.5	0.3055 ug/L	0.3055 ppb	05:26:28
3	Cu 324.752†	6257.0	-502.8	-1.5740 ug/L	-1.5740 ppb	05:26:08
3	Mn 257.610†	1028.2	506.4	0.6085 ug/L	0.6085 ppb	05:26:28
3	Mo 202.031†	12.6	2.0	0.1660 ug/L	0.1660 ppb	05:26:28
3	Ni 231.604†	81.6	-1.6	-0.0447 ug/L	-0.0447 ppb	05:26:28
3	P 214.914†	217.9	-3.9	-2.1152 ug/L	-2.1152 ppb	05:26:28
3	Pb 220.353†	-45.3	-64.0	-8.8723 ug/L	-8.8723 ppb	05:26:28
3	S 181.975 Axial†	48.0	8.2	11.838 ug/L	11.838 ppb	05:26:28
3	Sb 206.836†	31.6	-6.3	-2.3213 ug/L	-2.3213 ppb	05:26:28
3	Se 196.026†	-26.1	4.5	3.1620 ug/L	3.1620 ppb	05:26:28
3	Si 251.611†	10404.2	9396.3	314.62 ug/L	314.62 ppb	05:26:08
3	Sn 189.927†	15.8	-0.3	-0.0511 ug/L	-0.0511 ppb	05:26:28
3	Ti 334.940†	-978.8	549.3	0.9197 ug/L	0.9197 ppb	05:26:08
3	Tl 190.801†	-24.9	8.9	2.9901 ug/L	2.9901 ppb	05:26:28
3	U 409.014†	-2725.9	471.2	17.147 ug/L	17.147 ppb	05:26:08
3	V 292.402†	-1621.3	151.1	1.2634 ug/L	1.2634 ppb	05:26:08
3	Zn 213.857†	778.9	96.9	1.0139 ug/L	1.0139 ppb	05:26:28
3	SiO2†	10478.4	9471.1	675.10 ug/L	675.10 ppb	05:26:44

Mean Data: 1202036429|950319|5

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Units	Units		Conc. Units		
Sc 361.383	792077.8	105.42 %		0.304			0.29%
Sc Radial	3986.7	113 %		0.6			0.56%
Y 371.029	628900.7	106.87 %		0.379			0.35%
Y RADIAL	4489.5	112.3 %		0.52			0.46%
Ag 328.068†	-144.3	-0.7507 ug/L		0.24083	-0.7507 ppb	0.24083	32.08%
Al 396.153Radial†	31.5	30.597 ug/L		12.6474	30.597 ppb	12.6474	41.34%
As 188.979†	-5.0	-2.3056 ug/L		1.07155	-2.3056 ppb	1.07155	46.48%
B 249.677†	376.6	9.3472 ug/L		0.53174	9.3472 ppb	0.53174	5.69%
Ba 233.527†	-15.3	-0.1262 ug/L		0.01135	-0.1262 ppb	0.01135	9.00%
Be 313.107†	27.2	0.0128 ug/L		0.01106	0.0128 ppb	0.01106	86.53%
Ca 317.933Radial†	15.6	34.006 ug/L		5.7747	34.006 ppb	5.7747	16.98%
Cd 226.502†	13.1	0.1750 ug/L		0.10914	0.1750 ppb	0.10914	62.35%
Co 228.616†	14.3	0.3112 ug/L		0.09771	0.3112 ppb	0.09771	31.40%
Cr 267.716†	11.9	0.1519 ug/L		0.13742	0.1519 ppb	0.13742	90.44%
Cu 324.752†	-578.6	-1.8109 ug/L		0.20965	-1.8109 ppb	0.20965	11.58%
Fe 238.204 Radial†	1.3	18.308 ug/L		20.6386	18.308 ppb	20.6386	112.73%
K 766.490 Radial†	-441.7	-82.458 ug/L		4.7826	-82.458 ppb	4.7826	5.80%

Mg 279.077 IEC†	-1.8	-93.179 ug/L	43.7197	-93.179 ppb	43.7197	46.92%
Mn 257.610†	506.9	0.6054 ug/L	0.00422	0.6054 ppb	0.00422	0.70%
Mo 202.031†	5.4	0.4477 ug/L	0.36624	0.4477 ppb	0.36624	81.81%
Na 589.592 Radial†	-4116.8	-1412.8 ug/L	12.08	-1412.8 ppb	12.08	0.86%
Ni 231.604†	4.9	0.1396 ug/L	0.17571	0.1396 ppb	0.17571	125.86%
P 214.914†	0.2	0.4624 ug/L	4.23247	0.4624 ppb	4.23247	915.29%
Pb 220.353†	-72.6	-10.074 ug/L	1.1305	-10.074 ppb	1.1305	11.22%
S 181.975 Axial†	5.2	7.5123 ug/L	7.09467	7.5123 ppb	7.09467	94.44%
Sb 206.836†	-9.1	-3.3139 ug/L	1.38543	-3.3139 ppb	1.38543	41.81%
Se 196.026†	6.0	4.1297 ug/L	1.02210	4.1297 ppb	1.02210	24.75%
Si 251.611†	9387.0	314.31 ug/L	0.318	314.31 ppb	0.318	0.10%
Sn 189.927†	1.8	0.3601 ug/L	0.65734	0.3601 ppb	0.65734	182.54%
Sr 421.552†	-1047.4	-7.8539 ug/L	1.18650	-7.8539 ppb	1.18650	15.11%
Ti 334.940†	555.5	0.9269 ug/L	0.04794	0.9269 ppb	0.04794	5.17%
Tl 190.801†	10.1	3.4129 ug/L	1.69700	3.4129 ppb	1.69700	49.72%
U 409.014†	465.0	16.924 ug/L	0.3327	16.924 ppb	0.3327	1.97%
V 292.402†	171.0	1.4333 ug/L	0.23888	1.4333 ppb	0.23888	16.67%
Zn 213.857†	104.5	1.0955 ug/L	0.07071	1.0955 ppb	0.07071	6.46%
SiO2†	9430.6	672.21 ug/L	3.942	672.21 ppb	3.942	0.59%

Sequence No.: 114

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 2/20/2010 05:28:55

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	3922.5	3922.5	111 %		05:31:07
1	Y RADIAL	4532.1	4532.1	113.3 %		05:30:47
1	Al 396.153Radial†	5505.1	5077.1	4912.0 ug/L	4912.0 ppb	05:30:47
1	Ca 317.933Radial†	2555.2	2272.7	4964.8 ug/L	4964.8 ppb	05:31:07
1	Fe 238.204 Radial†	380.7	334.1	4848.2 ug/L	4848.2 ppb	05:31:07
1	K 766.490 Radial†	31369.9	25141.7	4718.7 ug/L	4718.7 ppb	05:30:47
1	Mg 279.077 IEC†	109.6	96.2	4889.1 ug/L	4889.1 ppb	05:31:07
1	Na 589.592 Radial†	30419.1	23401.1	8031.0 ug/L	8031.0 ppb	05:30:47
1	Sr 421.552†	71423.6	62960.2	472.07 ug/L	472.07 ppb	05:30:47
1	Sc 361.383	802879.2	802879.2	106.86 %		05:32:04
1	Y 371.029	630497.2	630497.2	107.14 %		05:32:04
1	Ag 328.068†	103257.5	96301.2	501.97 ug/L	501.97 ppb	05:32:10
1	As 188.979†	1123.0	1071.6	500.64 ug/L	500.64 ppb	05:32:30
1	B 249.677†	20483.1	19609.9	484.69 ug/L	484.69 ppb	05:32:10
1	Ba 233.527†	61385.4	57298.9	488.96 ug/L	488.96 ppb	05:32:10
1	Be 313.107†	1330381.0	1249315.0	491.30 ug/L	491.30 ppb	05:32:04
1	Cd 226.502†	39132.5	36815.0	486.62 ug/L	486.62 ppb	05:32:10
1	Co 228.616†	23644.9	22197.0	486.48 ug/L	486.48 ppb	05:32:10
1	Cr 267.716†	39870.3	37232.4	487.57 ug/L	487.57 ppb	05:32:10
1	Cu 324.752†	175590.0	157863.4	491.75 ug/L	491.75 ppb	05:32:10
1	Mn 257.610†	442338.1	413464.9	489.55 ug/L	489.55 ppb	05:32:04
1	Mo 202.031†	6485.5	6059.1	496.22 ug/L	496.22 ppb	05:32:30
1	Ni 231.604†	18366.7	17108.3	486.45 ug/L	486.45 ppb	05:32:10
1	P 214.914†	4456.2	3958.9	2323.3 ug/L	2323.3 ppb	05:32:30
1	Pb 220.353†	3748.5	3486.9	486.44 ug/L	486.44 ppb	05:32:30
1	S 181.975 Axial†	771.8	684.8	983.99 ug/L	983.99 ppb	05:32:30
1	Sb 206.836†	1487.1	1355.3	514.60 ug/L	514.60 ppb	05:32:30
1	Se 196.026†	747.2	728.5	512.41 ug/L	512.41 ppb	05:32:30
1	Si 251.611†	79404.2	73809.3	2465.3 ug/L	2465.3 ppb	05:32:10
1	Sn 189.927†	2637.6	2452.9	494.44 ug/L	494.44 ppb	05:32:30
1	Ti 334.940†	309218.0	290843.5	482.71 ug/L	482.71 ppb	05:32:10
1	Tl 190.801†	1546.0	1479.2	499.93 ug/L	499.93 ppb	05:32:30
1	U 409.014†	12339.4	14610.2	530.12 ug/L	530.12 ppb	05:32:10
1	V 292.402†	62607.7	60280.5	500.42 ug/L	500.42 ppb	05:32:10
1	Zn 213.857†	50551.9	46662.3	485.20 ug/L	485.20 ppb	05:32:10
1	SiO2†	79351.6	73764.4	5244.5 ug/L	5244.5 ppb	05:33:37
2	Sc Radial	3896.1	3896.1	110 %		05:31:32
2	Y RADIAL	4393.7	4393.7	109.9 %		05:31:12
2	Al 396.153Radial†	5437.3	5049.1	4884.9 ug/L	4884.9 ppb	05:31:12
2	Ca 317.933Radial†	2548.7	2282.4	4985.9 ug/L	4985.9 ppb	05:31:32
2	Fe 238.204 Radial†	379.5	335.3	4865.5 ug/L	4865.5 ppb	05:31:32
2	K 766.490 Radial†	31034.7	25028.8	4697.5 ug/L	4697.5 ppb	05:31:12
2	Mg 279.077 IEC†	112.6	99.6	5060.3 ug/L	5060.3 ppb	05:31:32
2	Na 589.592 Radial†	30156.9	23348.7	8013.0 ug/L	8013.0 ppb	05:31:12
2	Sr 421.552†	70853.3	62878.4	471.46 ug/L	471.46 ppb	05:31:12
2	Sc 361.383	803281.3	803281.3	106.91 %		05:32:35
2	Y 371.029	630502.0	630502.0	107.14 %		05:32:35
2	Ag 328.068†	104730.6	97630.6	508.88 ug/L	508.88 ppb	05:32:41
2	As 188.979†	1122.8	1070.8	500.36 ug/L	500.36 ppb	05:33:01
2	B 249.677†	20932.4	20020.5	494.86 ug/L	494.86 ppb	05:32:41
2	Ba 233.527†	62343.2	58166.0	496.36 ug/L	496.36 ppb	05:32:41
2	Be 313.107†	1332674.2	1250836.8	491.92 ug/L	491.92 ppb	05:32:35
2	Cd 226.502†	39769.5	37392.4	494.26 ug/L	494.26 ppb	05:32:41
2	Co 228.616†	24053.4	22568.0	494.60 ug/L	494.60 ppb	05:32:41
2	Cr 267.716†	40365.5	37676.9	493.38 ug/L	493.38 ppb	05:32:41
2	Cu 324.752†	178576.1	160574.2	500.19 ug/L	500.19 ppb	05:32:41
2	Mn 257.610†	443154.5	414021.3	490.20 ug/L	490.20 ppb	05:32:35
2	Mo 202.031†	6469.4	6041.0	494.74 ug/L	494.74 ppb	05:33:01
2	Ni 231.604†	18647.2	17362.0	493.67 ug/L	493.67 ppb	05:32:41

2	P 214.914†	4483.1	3982.1	2335.7 ug/L	2335.7 ppb	05:33:01
2	Pb 220.353†	3763.0	3498.8	488.07 ug/L	488.07 ppb	05:33:01
2	S 181.975 Axial†	792.2	703.6	1011.0 ug/L	1011.0 ppb	05:33:01
2	Sb 206.836†	1483.3	1351.0	513.03 ug/L	513.03 ppb	05:33:01
2	Se 196.026†	755.4	735.9	517.46 ug/L	517.46 ppb	05:33:01
2	Si 251.611†	80934.6	75203.5	2512.0 ug/L	2512.0 ppb	05:32:41
2	Sn 189.927†	2650.3	2463.5	496.59 ug/L	496.59 ppb	05:33:01
2	Ti 334.940†	314322.4	295473.0	490.37 ug/L	490.37 ppb	05:32:41
2	Tl 190.801†	1570.7	1501.7	507.48 ug/L	507.48 ppb	05:33:01
2	U 409.014†	12906.1	15134.5	549.19 ug/L	549.19 ppb	05:32:41
2	V 292.402†	63551.4	61133.8	507.41 ug/L	507.41 ppb	05:32:41
2	Zn 213.857†	51396.6	47428.6	493.18 ug/L	493.18 ppb	05:32:41
2	SiO2†	79457.8	73826.6	5248.9 ug/L	5248.9 ppb	05:33:42
3	Sc Radial	3862.7	3862.7	109 %		05:31:57
3	Y RADIAL	4281.0	4281.0	107.1 %		05:31:37
3	Al 396.153Radial†	5397.6	5055.5	4891.0 ug/L	4891.0 ppb	05:31:37
3	Ca 317.933Radial†	2507.0	2264.3	4946.3 ug/L	4946.3 ppb	05:31:57
3	Fe 238.204 Radial†	373.9	333.2	4835.0 ug/L	4835.0 ppb	05:31:57
3	K 766.490 Radial†	30988.4	25230.2	4735.3 ug/L	4735.3 ppb	05:31:37
3	Mg 279.077 IEC†	108.6	96.8	4919.6 ug/L	4919.6 ppb	05:31:57
3	Na 589.592 Radial†	29935.9	23383.3	8024.9 ug/L	8024.9 ppb	05:31:37
3	Sr 421.552†	70289.5	62918.8	471.76 ug/L	471.76 ppb	05:31:37
3	Sc 361.383	797966.7	797966.7	106.21 %		05:33:06
3	Y 371.029	626089.1	626089.1	106.39 %		05:33:06
3	Ag 328.068†	105591.1	99093.2	516.47 ug/L	516.47 ppb	05:33:12
3	As 188.979†	1122.4	1077.5	503.48 ug/L	503.48 ppb	05:33:32
3	B 249.677†	21223.8	20425.3	504.90 ug/L	504.90 ppb	05:33:12
3	Ba 233.527†	62685.4	58876.6	502.42 ug/L	502.42 ppb	05:33:12
3	Be 313.107†	1320537.1	1247710.7	490.71 ug/L	490.71 ppb	05:33:06
3	Cd 226.502†	40060.6	37914.3	501.16 ug/L	501.16 ppb	05:33:12
3	Co 228.616†	24211.5	22866.7	501.13 ug/L	501.13 ppb	05:33:12
3	Cr 267.716†	40618.1	38166.3	499.78 ug/L	499.78 ppb	05:33:12
3	Cu 324.752†	180267.3	163279.0	508.61 ug/L	508.61 ppb	05:33:12
3	Mn 257.610†	440531.6	414312.3	490.55 ug/L	490.55 ppb	05:33:06
3	Mo 202.031†	6447.6	6060.7	496.36 ug/L	496.36 ppb	05:33:32
3	Ni 231.604†	18722.7	17549.3	498.99 ug/L	498.99 ppb	05:33:12
3	P 214.914†	4444.8	3973.9	2329.1 ug/L	2329.1 ppb	05:33:32
3	Pb 220.353†	3720.9	3482.5	485.82 ug/L	485.82 ppb	05:33:32
3	S 181.975 Axial†	759.6	677.8	973.87 ug/L	973.87 ppb	05:33:32
3	Sb 206.836†	1481.6	1358.7	515.91 ug/L	515.91 ppb	05:33:32
3	Se 196.026†	756.6	741.7	521.31 ug/L	521.31 ppb	05:33:32
3	Si 251.611†	81530.5	76268.8	2547.6 ug/L	2547.6 ppb	05:33:12
3	Sn 189.927†	2640.1	2470.5	497.98 ug/L	497.98 ppb	05:33:32
3	Ti 334.940†	316790.7	299755.0	497.48 ug/L	497.48 ppb	05:33:12
3	Tl 190.801†	1545.4	1487.6	502.79 ug/L	502.79 ppb	05:33:32
3	U 409.014†	13009.5	15312.3	555.65 ug/L	555.65 ppb	05:33:12
3	V 292.402†	63873.5	61832.9	513.16 ug/L	513.16 ppb	05:33:12
3	Zn 213.857†	51683.4	48018.8	499.33 ug/L	499.33 ppb	05:33:12
3	SiO2†	80204.0	75024.1	5334.2 ug/L	5334.2 ppb	05:33:47

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	801375.8	106.66 %	0.394			0.37%
Sc Radial	3893.8	110 %	0.8			0.77%
Y 371.029	629029.5	106.89 %	0.433			0.40%
Y RADIAL	4402.3	110.1 %	3.15			2.86%
Ag 328.068†	97675.0	509.11 ug/L	7.250	509.11 ppb	7.250	1.42%
QC value within limits for Ag 328.068 Recovery = 101.82%						
Al 396.153Radial†	5060.6	4896.0 ug/L	14.23	4896.0 ppb	14.23	0.29%
QC value within limits for Al 396.153Radial Recovery = 97.92%						
As 188.979†	1073.3	501.49 ug/L	1.728	501.49 ppb	1.728	0.34%
QC value within limits for As 188.979 Recovery = 100.30%						
B 249.677†	20018.6	494.82 ug/L	10.103	494.82 ppb	10.103	2.04%
QC value within limits for B 249.677 Recovery = 98.96%						
Ba 233.527†	58113.8	495.91 ug/L	6.739	495.91 ppb	6.739	1.36%
QC value within limits for Ba 233.527 Recovery = 99.18%						
Be 313.107†	1249287.5	491.31 ug/L	0.605	491.31 ppb	0.605	0.12%
QC value within limits for Be 313.107 Recovery = 98.26%						
Ca 317.933Radial†	2273.1	4965.7 ug/L	19.81	4965.7 ppb	19.81	0.40%

QC value within limits for Ca 317.933 Radial Recovery = 99.31%

Cd 226.502†	37373.9	494.01 ug/L	7.277	494.01 ppb	7.277	1.47%
QC value within limits for Cd 226.502 Recovery = 98.80%						
Co 228.616†	22543.9	494.07 ug/L	7.337	494.07 ppb	7.337	1.48%
QC value within limits for Co 228.616 Recovery = 98.81%						
Cr 267.716†	37691.9	493.57 ug/L	6.108	493.57 ppb	6.108	1.24%
QC value within limits for Cr 267.716 Recovery = 98.71%						
Cu 324.752†	160572.2	500.18 ug/L	8.428	500.18 ppb	8.428	1.68%
QC value within limits for Cu 324.752 Recovery = 100.04%						
Fe 238.204 Radial†	334.2	4849.6 ug/L	15.32	4849.6 ppb	15.32	0.32%
QC value within limits for Fe 238.204 Radial Recovery = 96.99%						
K 766.490 Radial†	25133.6	4717.2 ug/L	18.98	4717.2 ppb	18.98	0.40%
QC value within limits for K 766.490 Radial Recovery = 94.34%						
Mg 279.077 IEC†	97.5	4956.4 ug/L	91.32	4956.4 ppb	91.32	1.84%
QC value within limits for Mg 279.077 IEC Recovery = 99.13%						
Mn 257.610†	413932.8	490.10 ug/L	0.508	490.10 ppb	0.508	0.10%
QC value within limits for Mn 257.610 Recovery = 98.02%						
Mo 202.031†	6053.6	495.78 ug/L	0.896	495.78 ppb	0.896	0.18%
QC value within limits for Mo 202.031 Recovery = 99.16%						
Na 589.592 Radial†	23377.7	8023.0 ug/L	9.14	8023.0 ppb	9.14	0.11%
QC value less than the lower limit for Na 589.592 Radial Recovery = 80.23%						
Ni 231.604†	17339.9	493.04 ug/L	6.293	493.04 ppb	6.293	1.28%
QC value within limits for Ni 231.604 Recovery = 98.61%						
P 214.914†	3971.6	2329.4 ug/L	6.23	2329.4 ppb	6.23	0.27%
QC value within limits for P 214.914 Recovery = 93.18%						
Pb 220.353†	3489.4	486.78 ug/L	1.163	486.78 ppb	1.163	0.24%
QC value within limits for Pb 220.353 Recovery = 97.36%						
S 181.975 Axial†	688.7	989.61 ug/L	19.168	989.61 ppb	19.168	1.94%
QC value within limits for S 181.975 Axial Recovery = 98.96%						
Sb 206.836†	1355.0	514.51 ug/L	1.438	514.51 ppb	1.438	0.28%
QC value within limits for Sb 206.836 Recovery = 102.90%						
Se 196.026†	735.4	517.06 ug/L	4.460	517.06 ppb	4.460	0.86%
QC value within limits for Se 196.026 Recovery = 103.41%						
Si 251.611†	75093.9	2508.3 ug/L	41.30	2508.3 ppb	41.30	1.65%
QC value within limits for Si 251.611 Recovery = 100.33%						
Sn 189.927†	2462.3	496.33 ug/L	1.781	496.33 ppb	1.781	0.36%
QC value within limits for Sn 189.927 Recovery = 99.27%						
Sr 421.552†	62919.2	471.77 ug/L	0.307	471.77 ppb	0.307	0.06%
QC value within limits for Sr 421.552 Recovery = 94.35%						
Ti 334.940†	295357.2	490.19 ug/L	7.389	490.19 ppb	7.389	1.51%
QC value within limits for Ti 334.940 Recovery = 98.04%						
Tl 190.801†	1489.5	503.40 ug/L	3.812	503.40 ppb	3.812	0.76%
QC value within limits for Tl 190.801 Recovery = 100.68%						
U 409.014†	15019.0	544.98 ug/L	13.272	544.98 ppb	13.272	2.44%
QC value within limits for U 409.014 Recovery = 109.00%						
V 292.402†	61082.4	507.00 ug/L	6.384	507.00 ppb	6.384	1.26%
QC value within limits for V 292.402 Recovery = 101.40%						
Zn 213.857†	47369.9	492.57 ug/L	7.087	492.57 ppb	7.087	1.44%
QC value within limits for Zn 213.857 Recovery = 98.51%						
SiO2†	74205.0	5275.9 ug/L	50.60	5275.9 ppb	50.60	0.96%
QC value within limits for SiO2 Recovery = 98.66%						

QC Failed. Continue with analysis.

Sequence No.: 115

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 2/20/2010 05:35:57

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3982.3	3982.3	113 %		05:38:10
1	Y RADIAL	4489.1	4489.1	112.3 %		05:37:50
1	Al 396.153Radial†	-110.5	15.1	14.696 ug/L	14.696 ppb	05:37:50
1	Ca 317.933Radial†	42.0	6.0	13.156 ug/L	13.156 ppb	05:38:10
1	Fe 238.204 Radial†	8.7	-1.4	-20.077 ug/L	-20.077 ppb	05:38:10
1	K 766.490 Radial†	2974.2	-502.6	-93.893 ug/L	-93.893 ppb	05:37:50
1	Mg 279.077 IEC†	1.0	-1.8	-89.602 ug/L	-89.602 ppb	05:38:10
1	Na 589.592 Radial†	-175.3	-4183.1	-1435.6 ug/L	-1435.6 ppb	05:37:50
1	Sr 421.552†	375.0	-1108.3	-8.3110 ug/L	-8.3110 ppb	05:37:50
1	Sc 361.383	800025.9	800025.9	106.48 %		05:39:07
1	Y 371.029	636462.4	636462.4	108.16 %		05:39:07
1	Ag 328.068†	217.5	-122.0	-0.6487 ug/L	-0.6487 ppb	05:39:07
1	As 188.979†	-24.4	-2.2	-1.0293 ug/L	-1.0293 ppb	05:39:27
1	B 249.677†	-181.9	271.1	6.7336 ug/L	6.7336 ppb	05:39:27
1	Ba 233.527†	62.4	-86.5	-0.7327 ug/L	-0.7327 ppb	05:39:27
1	Be 313.107†	-4628.9	8.7	0.0048 ug/L	0.0048 ppb	05:39:07
1	Cd 226.502†	-199.5	7.8	0.1096 ug/L	0.1096 ppb	05:39:27
1	Co 228.616†	-68.6	5.9	0.1292 ug/L	0.1292 ppb	05:39:27
1	Cr 267.716†	91.1	7.7	0.0935 ug/L	0.0935 ppb	05:39:27
1	Cu 324.752†	6188.1	-640.7	-2.0087 ug/L	-2.0087 ppb	05:39:07
1	Mn 257.610†	469.2	-30.7	-0.0346 ug/L	-0.0346 ppb	05:39:27
1	Mo 202.031†	16.2	5.3	0.4299 ug/L	0.4299 ppb	05:39:27
1	Ni 231.604†	88.9	4.4	0.1247 ug/L	0.1247 ppb	05:39:27
1	P 214.914†	202.3	-21.1	-12.481 ug/L	-12.481 ppb	05:39:27
1	Pb 220.353†	-58.5	-75.8	-10.519 ug/L	-10.519 ppb	05:39:27
1	S 181.975 Axial†	47.6	7.3	10.488 ug/L	10.488 ppb	05:39:27
1	Sb 206.836†	38.0	-0.7	-0.2255 ug/L	-0.2255 ppb	05:39:27
1	Se 196.026†	-26.6	4.3	2.8287 ug/L	2.8287 ppb	05:39:27
1	Si 251.611†	564.5	33.6	1.1191 ug/L	1.1191 ppb	05:39:27
1	Sn 189.927†	22.2	5.5	1.1191 ug/L	1.1191 ppb	05:39:27
1	Ti 334.940†	-1188.9	363.4	0.6032 ug/L	0.6032 ppb	05:39:07
1	Tl 190.801†	-19.7	14.0	4.7039 ug/L	4.7039 ppb	05:39:27
1	U 409.014†	-2653.1	571.5	20.803 ug/L	20.803 ppb	05:39:07
1	V 292.402†	-1576.5	212.2	1.7843 ug/L	1.7843 ppb	05:39:07
1	Zn 213.857†	671.6	-13.1	-0.1321 ug/L	-0.1321 ppb	05:39:27
1	SiO2†	563.1	36.6	2.5985 ug/L	2.5985 ppb	05:40:23
2	Sc Radial	3956.2	3956.2	112 %		05:38:35
2	Y RADIAL	4494.9	4494.9	112.4 %		05:38:15
2	Al 396.153Radial†	-104.3	20.0	19.346 ug/L	19.346 ppb	05:38:15
2	Ca 317.933Radial†	28.6	-5.6	-12.321 ug/L	-12.321 ppb	05:38:35
2	Fe 238.204 Radial†	9.3	-0.8	-11.464 ug/L	-11.464 ppb	05:38:35
2	K 766.490 Radial†	2922.4	-531.6	-99.311 ug/L	-99.311 ppb	05:38:15
2	Mg 279.077 IEC†	1.8	-1.0	-52.914 ug/L	-52.914 ppb	05:38:35
2	Na 589.592 Radial†	-245.0	-4246.4	-1457.3 ug/L	-1457.3 ppb	05:38:15
2	Sr 421.552†	489.6	-1003.7	-7.5261 ug/L	-7.5261 ppb	05:38:15
2	Sc 361.383	800068.2	800068.2	106.49 %		05:39:32
2	Y 371.029	636370.1	636370.1	108.14 %		05:39:32
2	Ag 328.068†	212.7	-126.6	-0.6673 ug/L	-0.6673 ppb	05:39:32
2	As 188.979†	-23.9	-1.8	-0.8135 ug/L	-0.8135 ppb	05:39:52
2	B 249.677†	-222.6	232.9	5.7844 ug/L	5.7844 ppb	05:39:52
2	Ba 233.527†	47.2	-100.7	-0.8542 ug/L	-0.8542 ppb	05:39:52
2	Be 313.107†	-4587.3	47.9	0.0199 ug/L	0.0199 ppb	05:39:32
2	Cd 226.502†	-199.0	8.3	0.1140 ug/L	0.1140 ppb	05:39:52
2	Co 228.616†	-65.4	8.9	0.1970 ug/L	0.1970 ppb	05:39:52
2	Cr 267.716†	76.7	-5.8	-0.0816 ug/L	-0.0816 ppb	05:39:52
2	Cu 324.752†	6206.8	-623.5	-1.9525 ug/L	-1.9525 ppb	05:39:32
2	Mn 257.610†	475.1	-25.2	-0.0287 ug/L	-0.0287 ppb	05:39:52
2	Mo 202.031†	26.9	15.2	1.2465 ug/L	1.2465 ppb	05:39:52
2	Ni 231.604†	83.1	-1.1	-0.0305 ug/L	-0.0305 ppb	05:39:52

2	P 214.914†	221.8	-2.8	-1.2980 ug/L	-1.2980 ppb	05:39:52
2	Pb 220.353†	-43.0	-61.3	-8.5035 ug/L	-8.5035 ppb	05:39:52
2	S 181.975 Axial†	41.3	1.4	1.9870 ug/L	1.9870 ppb	05:39:52
2	Sb 206.836†	38.7	-0.1	0.0330 ug/L	0.0330 ppb	05:39:52
2	Se 196.026†	-25.4	5.4	3.6494 ug/L	3.6494 ppb	05:39:52
2	Si 251.611†	536.0	6.8	0.2120 ug/L	0.2120 ppb	05:39:52
2	Sn 189.927†	24.9	8.1	1.6252 ug/L	1.6252 ppb	05:39:52
2	Ti 334.940†	-1269.2	288.1	0.4734 ug/L	0.4734 ppb	05:39:32
2	Tl 190.801†	-32.0	2.5	0.8307 ug/L	0.8307 ppb	05:39:52
2	U 409.014†	-2757.0	474.0	17.255 ug/L	17.255 ppb	05:39:32
2	V 292.402†	-1606.5	184.1	1.5586 ug/L	1.5586 ppb	05:39:32
2	Zn 213.857†	673.4	-11.4	-0.1152 ug/L	-0.1152 ppb	05:39:52
2	SiO2†	546.2	20.7	1.4426 ug/L	1.4426 ppb	05:40:28
3	Sc Radial	3938.1	3938.1	111 %		05:39:00
3	Y RADIAL	4484.3	4484.3	112.1 %		05:38:40
3	Al 396.153Radial†	-98.1	25.1	24.369 ug/L	24.369 ppb	05:38:40
3	Ca 317.933Radial†	38.3	3.2	6.9412 ug/L	6.9412 ppb	05:39:00
3	Fe 238.204 Radial†	9.3	-0.8	-11.133 ug/L	-11.133 ppb	05:39:00
3	K 766.490 Radial†	2946.9	-497.5	-92.926 ug/L	-92.926 ppb	05:38:40
3	Mg 279.077 IEC†	3.7	0.7	35.989 ug/L	35.989 ppb	05:39:00
3	Na 589.592 Radial†	-254.2	-4255.6	-1460.5 ug/L	-1460.5 ppb	05:38:40
3	Sr 421.552†	510.5	-982.9	-7.3704 ug/L	-7.3704 ppb	05:38:40
3	Sc 361.383	781097.3	781097.3	103.96 %		05:39:58
3	Y 371.029	621268.0	621268.0	105.57 %		05:39:58
3	Ag 328.068†	232.7	-102.5	-0.5411 ug/L	-0.5411 ppb	05:39:58
3	As 188.979†	-25.0	-3.3	-1.5496 ug/L	-1.5496 ppb	05:40:18
3	B 249.677†	-250.1	201.4	5.0016 ug/L	5.0016 ppb	05:40:18
3	Ba 233.527†	50.8	-96.2	-0.8168 ug/L	-0.8168 ppb	05:40:18
3	Be 313.107†	-4537.6	-8.9	-0.0026 ug/L	-0.0026 ppb	05:39:58
3	Cd 226.502†	-186.5	15.7	0.2118 ug/L	0.2118 ppb	05:40:18
3	Co 228.616†	-75.1	-1.9	-0.0409 ug/L	-0.0409 ppb	05:40:18
3	Cr 267.716†	81.1	0.2	-0.0017 ug/L	-0.0017 ppb	05:40:18
3	Cu 324.752†	6038.1	-644.2	-2.0149 ug/L	-2.0149 ppb	05:39:58
3	Mn 257.610†	453.6	-35.0	-0.0440 ug/L	-0.0440 ppb	05:40:18
3	Mo 202.031†	25.4	14.4	1.1798 ug/L	1.1798 ppb	05:40:18
3	Ni 231.604†	91.1	8.5	0.2406 ug/L	0.2406 ppb	05:40:18
3	P 214.914†	207.4	-11.6	-6.7122 ug/L	-6.7122 ppb	05:40:18
3	Pb 220.353†	-43.1	-62.3	-8.6490 ug/L	-8.6490 ppb	05:40:18
3	S 181.975 Axial†	40.7	1.8	2.5862 ug/L	2.5862 ppb	05:40:18
3	Sb 206.836†	28.5	-9.0	-3.2738 ug/L	-3.2738 ppb	05:40:18
3	Se 196.026†	-15.0	14.9	10.047 ug/L	10.047 ppb	05:40:18
3	Si 251.611†	587.8	68.9	2.2933 ug/L	2.2933 ppb	05:40:18
3	Sn 189.927†	10.1	-5.6	-1.1293 ug/L	-1.1293 ppb	05:40:18
3	Ti 334.940†	-1301.0	228.6	0.3716 ug/L	0.3716 ppb	05:39:58
3	Tl 190.801†	-26.9	6.7	2.2358 ug/L	2.2358 ppb	05:40:18
3	U 409.014†	-2804.4	365.6	13.307 ug/L	13.307 ppb	05:39:58
3	V 292.402†	-1623.6	131.0	1.1169 ug/L	1.1169 ppb	05:39:58
3	Zn 213.857†	680.9	11.2	0.1203 ug/L	0.1203 ppb	05:40:18
3	SiO2†	555.8	42.5	2.9938 ug/L	2.9938 ppb	05:40:33

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	793730.4	105.64 %		1.456			1.38%
Sc Radial	3958.9	112 %		0.6			0.56%
Y 371.029	631366.8	107.29 %		1.486			1.39%
Y RADIAL	4489.4	112.3 %		0.13			0.12%
Ag 328.068†	-117.0	-0.6190 ug/L		0.06811	-0.6190 ppb	0.06811	11.00%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	20.1	19.470 ug/L		4.8377	19.470 ppb	4.8377	24.85%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-2.4	-1.1308 ug/L		0.37841	-1.1308 ppb	0.37841	33.46%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	235.1	5.8399 ug/L		0.86734	5.8399 ppb	0.86734	14.85%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-94.4	-0.8012 ug/L		0.06220	-0.8012 ppb	0.06220	7.76%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	15.9	0.0074 ug/L		0.01148	0.0074 ppb	0.01148	156.10%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	1.2	2.5920 ug/L		13.28405	2.5920 ppb	13.28405	512.49%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	10.6	0.1451 ug/L	0.05775	0.1451 ppb	0.05775	39.79%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	4.3	0.0951 ug/L	0.12255	0.0951 ppb	0.12255	128.82%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	0.7	0.0034 ug/L	0.08770	0.0034 ppb	0.08770	>999.9%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-636.1	-1.9920 ug/L	0.03433	-1.9920 ppb	0.03433	1.72%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	-1.0	-14.224 ug/L	5.0709	-14.224 ppb	5.0709	35.65%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	-510.6	-95.376 ug/L	3.4412	-95.376 ppb	3.4412	3.61%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.7	-35.509 ug/L	64.5794	-35.509 ppb	64.5794	181.87%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-30.3	-0.0358 ug/L	0.00771	-0.0358 ppb	0.00771	21.55%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	11.6	0.9521 ug/L	0.45339	0.9521 ppb	0.45339	47.62%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-4228.3	-1451.1 ug/L	13.55	-1451.1 ppb	13.55	0.93%	
QC value less than the lower limit for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	3.9	0.1116 ug/L	0.13602	0.1116 ppb	0.13602	121.90%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-11.9	-6.8303 ug/L	5.59229	-6.8303 ppb	5.59229	81.87%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-66.5	-9.2239 ug/L	1.12419	-9.2239 ppb	1.12419	12.19%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	3.5	5.0203 ug/L	4.74442	5.0203 ppb	4.74442	94.50%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	-3.2	-1.1554 ug/L	1.83913	-1.1554 ppb	1.83913	159.17%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	8.2	5.5084 ug/L	3.95197	5.5084 ppb	3.95197	71.74%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	36.4	1.2081 ug/L	1.04350	1.2081 ppb	1.04350	86.37%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	2.7	0.5384 ug/L	1.46624	0.5384 ppb	1.46624	272.36%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-1031.6	-7.7358 ug/L	0.50414	-7.7358 ppb	0.50414	6.52%	
QC value less than the lower limit for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	293.4	0.4828 ug/L	0.11607	0.4828 ppb	0.11607	24.04%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	7.7	2.5902 ug/L	1.96076	2.5902 ppb	1.96076	75.70%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	470.4	17.122 ug/L	3.7497	17.122 ppb	3.7497	21.90%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	175.8	1.4866 ug/L	0.33950	1.4866 ppb	0.33950	22.84%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	-4.4	-0.0423 ug/L	0.14108	-0.0423 ppb	0.14108	333.24%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	33.3	2.3450 ug/L	0.80610	2.3450 ppb	0.80610	34.38%	
QC value within limits for SiO2 Recovery = Not calculated							

QC Failed. Continue with analysis.

ICPMS#3 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Thursday, March 04, 2010 11:34:46

Sample Description:

Method File: c:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.6369

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		353.6		353.604		15.869		4.5
Mg	24.0		4655.0		4654.958		70.505		1.5
Co	58.9		13717.8		13717.784		159.539		1.2
Rh	102.9		34903.6		34903.588		172.026		0.5
In	114.9		49603.6		49603.571		286.405		0.6
Pb	208.0		37951.9		37951.946		141.883		0.4
[> Ba	137.9		44041.0		44041.038		381.017		0.9
[Ba++	69.0		1038.7		0.024		0.001		2.3
[> Ce	139.9		57359.5		57359.525		265.657		0.5
[CeO	155.9		1141.2		0.020		0.000		1.5
Bkgd	220.0		1.7		1.700		1.304		76.7

Current Optimization File Data

Current Value	Description
1.01	Nebulizer Gas Flow
7.20	Lens Voltage
1450.00	ICP RF Power
-1855.00	Analog Stage Voltage
1350.00	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	21	7.0	460.7
Co	59	21	8.0	14339.2
In	115	21	9.0	66134.1

ICPMS#3 Instrument Tuning Report

File Name: 100304.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.0	584	2060	0.633
Be	9.0	9.0	2071	2040	0.711
Mg	24.0	24.0	5712	2110	0.642
Mg	25.0	25.0	5902	2020	0.664
Mg	26.0	25.9	6224	2140	0.631
Co	58.9	58.9	14204	2115	0.651
Rh	102.9	102.9	24902	2165	0.663
In	114.9	114.9	27832	2180	0.650
Ce	139.9	140.0	33927	2220	0.624
Pb	206.0	206.0	49992	2280	0.635
Pb	207.0	206.9	50272	2310	0.643
Pb	208.0	208.0	50486	2300	0.641
U	238.1	238.1	57842	2340	0.673

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, March 04, 2010 11:39:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\Blank.001

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9		ug/L			1
[> Sc	45		ug/L		249037	
[> Ge	74		ug/L		86399	
| Se	77		ug/L		703	
| Se	82		ug/L		40	
[Kr	83		ug/L		19	
[> In	115		ug/L		60149	
| Sb	121		ug/L		1527	
[Sb	123		ug/L		1224	
[> Lu	175		ug/L		110980	
[Tl	205		ug/L		150	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Simple Linear	
Sc	45	Simple Linear	
Ge	74	Simple Linear	
Se	77	Simple Linear	
Se	82	Simple Linear	
Kr	83	Simple Linear	
In	115	Simple Linear	
Sb	121	Simple Linear	
Sb	123	Simple Linear	
Lu	175	Simple Linear	
Tl	205	Simple Linear	

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[Be	9										
[> Sc	45										
[> Ge	74										
| Se	77										
| Se	82										
[Kr	83										
[> In	115										
| Sb	121										
[Sb	123										
[> Lu	175										
[Tl	205										

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

Sample ID: Blank

Report Date/Time: Thursday, March 04, 2010 11:39:59

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Thursday, March 04, 2010 11:41:58

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\Standard 1.002

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	10.000	ug/L	9.644	285	0.001
[>	Sc 45		ug/L		250228	250228.370
[>	Ge 74		ug/L		87821	87820.670
|	Se 77		ug/L		901	0.002
|	Se 82	10.000	ug/L	11.072	210	0.002
|	Kr 83		ug/L		26	0.000
[>	In 115		ug/L		62214	62213.758
|	Sb 121	10.000	ug/L	1.713	10175	0.138
|	Sb 123		ug/L		7808	0.105
[>	Lu 175		ug/L		111335	111334.621
|	Tl 205	10.000	ug/L	0.418	55262	0.495

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear 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

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[	Be 9					
[>	Sc 45					
[>	Ge 74					
|	Se 77					
|	Se 82					
|	Kr 83					
[>	In 115					
|	Sb 121					
|	Sb 123					
[>	Lu 175					
|	Tl 205					

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

Sample ID: Standard 1

Report Date/Time: Thursday, March 04, 2010 11:42:42

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, March 04, 2010 11:44:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\Standard 2.003

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	100.007 ug/L	1.803	2849	0.011
[>	Sc	45	ug/L		249741	249741.024
[>	Ge	74	ug/L		88992	88991.888
|	Se	77	ug/L		2666	0.022
|	Se	82	100.212 ug/L	3.607	2223	0.025
[	Kr	83	ug/L		19	-0.000
[>	In	115	ug/L		61330	61330.192
|	Sb	121	100.192 ug/L	3.422	106609	1.713
[	Sb	123	ug/L		83286	1.337
[>	Lu	175	ug/L		114421	114421.224
[	Tl	205	99.984 ug/L	1.346	557445	4.870

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[	Be	9				
[>	Sc	45				
[>	Ge	74				
|	Se	77				
|	Se	82				
[	Kr	83				
[>	In	115				
|	Sb	121				
[	Sb	123				
[>	Lu	175				
[	Tl	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: Standard 2

Report Date/Time: Thursday, March 04, 2010 11:45:25

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, March 04, 2010 11:47:24

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 1.004

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	54.618	ug/L	3.435	1562	0.006
[>	Sc	45		ug/L		250662	250661.896
[>	Ge	74		ug/L		89053	89052.591
|	Se	77		ug/L		1857	0.013
|	Se	82	52.000	ug/L	4.401	1174	0.013
[	Kr	83		ug/L		19	-0.000
[>	In	115		ug/L		61573	61573.284
|	Sb	121	49.922	ug/L	3.630	54098	0.853
[	Sb	123		ug/L		42400	0.668
[>	Lu	175		ug/L		113815	113815.392
|	Tl	205	51.247	ug/L	1.934	284256	2.496

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[Be	9	109.236				
[> Sc	45		100.7			
[> Ge	74		103.1			
| Se	77					
| Se	82	104.000				
[Kr	83					
[> In	115		102.4			
| Sb	121	99.844				
[Sb	123					
[> Lu	175		102.6			
[Tl	205	102.494				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 1

Report Date/Time: Thursday, March 04, 2010 11:48:09

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Thursday, March 04, 2010 11:50:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 2.005

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	-0.001	ug/L	6368.082	1	-0.000
[> Sc	45		ug/L		251455	251454.892
[> Ge	74		ug/L		89284	89283.705
| Se	77		ug/L		945	0.002
| Se	82	1.137	ug/L	92.460	66	0.000
| Kr	83		ug/L		26	0.000
[> In	115		ug/L		62261	62260.991
| Sb	121	3.586	ug/L	2.921	5398	0.061
| Sb	123		ug/L		4165	0.047
[> Lu	175		ug/L		112616	112615.605
| Tl	205	0.161	ug/L	4.320	1038	0.008

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[Be	9					
[> Sc	45		101.0			
[> Ge	74		103.3			
| Se	77					
| Se	82					
| Kr	83					
[> In	115		103.5			
| Sb	121					
| Sb	123					
[> Lu	175		101.5			
| Tl	205					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 2	Sb	121ICB is out of limits (+/- PQL)

Sample ID: QC Std 2

Report Date/Time: Thursday, March 04, 2010 11:50:57

Page 1

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Thursday, March 04, 2010 11:52:57

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 3.006

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.739	ug/L	16.850	22	0.000
[> Sc	45		ug/L		252579	252578.672
[> Ge	74		ug/L		89241	89241.100
| Se	77		ug/L		1119	0.004
| Se	82	4.079	ug/L	9.988	130	0.001
| Kr	83		ug/L		20	-0.000
[> In	115		ug/L		62102	62101.729
| Sb	121	4.596	ug/L	2.055	6455	0.079
| Sb	123		ug/L		5058	0.061
[> Lu	175		ug/L		112084	112084.101
| Tl	205	1.192	ug/L	1.257	6658	0.058

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ge	74	Linear Thru Zero	
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	0.9998
Kr	83	Linear Thru Zero	
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	0.9998
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9	147.768				
[> Sc	45		101.4			
[> Ge	74		103.3			
| Se	77					
| Se	82	81.578				
| Kr	83					
[> In	115		103.2			
| Sb	121	153.187				
| Sb	123					
[> Lu	175		101.0			
| Tl	205	119.172				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Be	9	CRDL is out of limits
QC Std 3	Sb	121	CRDL is out of limits

Sample ID: QC Std 3

Report Date/Time: Thursday, March 04, 2010 11:53:42

Page 1

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Thursday, March 04, 2010 11:55:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 4.007

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.092 ug/L	79.708	3	0.000
[>	Sc	45	ug/L		206959	206958.874
[>	Ge	74	ug/L		75237	75236.683
|	Se	77	ug/L		1323	0.009
|	Se	82	2.423 ug/L	37.490	80	0.001
[	Kr	83	ug/L		49	0.000
[>	In	115	ug/L		52593	52592.513
|	Sb	121	3.409 ug/L	1.368	4400	0.058
[	Sb	123	ug/L		3365	0.044
[>	Lu	175	ug/L		97960	97960.372
[	Tl	205	0.055 ug/L	4.310	393	0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[	Be	9				
[>	Sc	45		83.1		
[>	Ge	74		87.1		
|	Se	77				
|	Se	82				
[	Kr	83				
[>	In	115		87.4		
|	Sb	121				
[	Sb	123				
[>	Lu	175		88.3		
[	Tl	205				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 4

Report Date/Time: Thursday, March 04, 2010 11:56:26

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Thursday, March 04, 2010 11:58:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 5.008

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	18.509	ug/L	5.084	444	0.002
[> Sc	45		ug/L		209871	209871.171
[> Ge	74		ug/L		76880	76879.747
| Se	77		ug/L		1702	0.014
| Se	82	24.376	ug/L	6.047	494	0.006
| Kr	83		ug/L		57	0.001
[> In	115		ug/L		52177	52176.674
| Sb	121	23.768	ug/L	0.485	22522	0.406
| Sb	123		ug/L		17499	0.315
[> Lu	175		ug/L		98310	98309.763
| Tl	205	19.626	ug/L	1.349	94115	0.956

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[Be	9		92.543								
[> Sc	45				84.3						
[> Ge	74				89.0						
| Se	77										
| Se	82		121.882								
| Kr	83										
[> In	115				86.7						
| Sb	121		118.840								
| Sb	123										
[> Lu	175				88.6						
| Tl	205		98.130								

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 5	Se	82ICSAB is out of limits

Sample ID: QC Std 5

Report Date/Time: Thursday, March 04, 2010 11:59:12

Page 1

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, March 04, 2010 12:01:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 6.009

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	54.526	ug/L	3.592	1586	0.006
[> Sc	45		ug/L		255031	255031.479
[> Ge	74		ug/L		90114	90113.564
| Se	77		ug/L		1932	0.013
| Se	82	47.054	ug/L	3.889	1079	0.012
[Kr	83		ug/L		21	0.000
[> In	115		ug/L		61609	61608.991
| Sb	121	44.880	ug/L	4.266	48826	0.767
| Sb	123		ug/L		38266	0.601
[> Lu	175		ug/L		113759	113758.640
[Tl	205	50.625	ug/L	1.465	280695	2.466

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ge	74	Linear Thru Zero	
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	0.9998
Kr	83	Linear Thru Zero	
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	0.9998
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[Be	9		109.052								
[> Sc	45				102.4						
[> Ge	74				104.3						
| Se	77										
| Se	82		94.107								
[Kr	83										
[> In	115				102.4						
| Sb	121		89.760								
| Sb	123										
[> Lu	175				102.5						
[Tl	205		101.250								

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Sb	121	CCV is out of limits (+/- 10%)

Sample ID: QC Std 6

Report Date/Time: Thursday, March 04, 2010 12:01:58

Page 1

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, March 04, 2010 12:04:00

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 7.010

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.077	ug/L	92.290	3	0.000
[> Sc	45		ug/L		262023	262023.255
[> Ge	74		ug/L		92200	92200.183
| Se	77		ug/L		1077	0.004
| Se	82	0.223	ug/L	302.096	48	0.000
[Kr	83		ug/L		14	-0.000
[> In	115		ug/L		61680	61680.018
| Sb	121	1.702	ug/L	4.415	3360	0.029
[Sb	123		ug/L		2620	0.022
[> Lu	175		ug/L		115853	115853.369
[Tl	205	0.158	ug/L	6.283	1051	0.008

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[Be	9					
[> Sc	45		105.2			
[> Ge	74		106.7			
| Se	77					
| Se	82					
[Kr	83					
[> In	115		102.5			
| Sb	121					
[Sb	123					
[> Lu	175		104.4			
[Tl	205					

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

Sample ID: QC Std 7

Report Date/Time: Thursday, March 04, 2010 12:04:47

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, March 04, 2010 12:26:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 6.018

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
|	Be 9	52.686	ug/L	2.370	1575	0.006
|>	Sc 45		ug/L		262006	262006.109
|>	Ge 74		ug/L		93409	93409.339
|	Se 77		ug/L		1957	0.013
|	Se 82	43.437	ug/L	1.044	1036	0.011
|	Kr 83		ug/L		23	0.000
|>	In 115		ug/L		62909	62908.617
|	Sb 121	48.422	ug/L	1.528	53670	0.828
|	Sb 123		ug/L		42054	0.648
|>	Lu 175		ug/L		117220	117219.932
|	Tl 205	50.294	ug/L	0.541	287307	2.450

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
|	Be 9	105.372				
|>	Sc 45		105.2			
|>	Ge 74		108.1			
|	Se 77					
|	Se 82	86.874				
|	Kr 83					
|>	In 115		104.6			
|	Sb 121	96.844				
|	Sb 123					
|>	Lu 175		105.6			
|	Tl 205	100.588				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 6	Se	82CCV is out of limits (+/- 10%)

Sample ID: QC Std 6

Report Date/Time: Thursday, March 04, 2010 12:26:59

Page 1

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, March 04, 2010 12:29:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 7.019

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	-0.001	ug/L	3093.332	1	-0.000
[>	Sc 45		ug/L		256693	256693.332
[>	Ge 74		ug/L		91610	91610.071
|	Se 77		ug/L		1067	0.004
|	Se 82	-0.331	ug/L	102.849	35	-0.000
[	Kr 83		ug/L		20	-0.000
[>	In 115		ug/L		62227	62226.787
|	Sb 121	0.420	ug/L	9.223	2026	0.007
[	Sb 123		ug/L		1570	0.005
[>	Lu 175		ug/L		114646	114646.017
[	Tl 205	0.192	ug/L	3.140	1224	0.009

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[	Be 9					
[>	Sc 45		103.1			
[>	Ge 74		106.0			
|	Se 77					
|	Se 82					
[	Kr 83					
[>	In 115		103.5			
|	Sb 121					
[	Sb 123					
[>	Lu 175		103.3			
[	Tl 205					

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

Sample ID: QC Std 7

Report Date/Time: Thursday, March 04, 2010 12:29:48

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, March 04, 2010 12:48:35

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 6.026

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	55.460 ug/L	4.353	1576	0.006
[>	Sc	45	ug/L		249022	249022.443
[>	Ge	74	ug/L		88841	88840.610
|	Se	77	ug/L		1763	0.012
|	Se	82	44.804 ug/L	2.417	1015	0.011
|	Kr	83	ug/L		23	0.000
[>	In	115	ug/L		60245	60244.668
|	Sb	121	48.436 ug/L	0.656	51407	0.828
|	Sb	123	ug/L		40080	0.645
[>	Lu	175	ug/L		112879	112878.690
|	Tl	205	50.684 ug/L	1.006	278842	2.469

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[	Be	9	110.920							
[>	Sc	45		100.0						
[>	Ge	74		102.8						
|	Se	77								
|	Se	82	89.608							
|	Kr	83								
[>	In	115		100.2						
|	Sb	121	96.871							
|	Sb	123								
[>	Lu	175		101.7						
|	Tl	205	101.368							

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 6	Be	9CCV is out of limits (+/- 10%)
QC Std 6	Se	82CCV is out of limits (+/- 10%)

Sample ID: QC Std 6

Report Date/Time: Thursday, March 04, 2010 12:49:21

Page 1

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, March 04, 2010 12:51:23

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 7.027

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.035	ug/L	202.656	2	0.000
[>	Sc 45		ug/L		251069	251068.904
[>	Ge 74		ug/L		89279	89278.692
|	Se 77		ug/L		1019	0.003
|	Se 82	-0.213	ug/L	165.551	37	-0.000
|	Kr 83		ug/L		20	-0.000
[>	In 115		ug/L		60332	60332.485
|	Sb 121	0.265	ug/L	16.549	1804	0.005
|	Sb 123		ug/L		1414	0.003
[>	Lu 175		ug/L		114462	114462.277
|	Tl 205	0.161	ug/L	4.061	1052	0.008

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[	Be 9					
[>	Sc 45		100.8			
[>	Ge 74		103.3			
|	Se 77					
|	Se 82					
|	Kr 83					
[>	In 115		100.3			
|	Sb 121					
|	Sb 123					
[>	Lu 175		103.1			
|	Tl 205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 7

Report Date/Time: Thursday, March 04, 2010 12:52:10

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202036451

Sample Date/Time: Thursday, March 04, 2010 12:54:11

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 950326|1|prb

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\1202036451.028

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.047 ug/L	114.448	2	0.000
[>	Sc	45	ug/L		248316	248315.884
[>	Ge	74	ug/L		91018	91017.960
|	Se	77	ug/L		3223	0.027
|	Se	82	0.298 ug/L	232.056	49	0.000
|	Kr	83	ug/L		20	-0.000
[>	In	115	ug/L		60125	60125.248
|	Sb	121	0.340 ug/L	10.724	1876	0.006
|	Sb	123	ug/L		1484	0.004
[>	Lu	175	ug/L		110640	110640.263
|	Tl	205	0.046 ug/L	8.046	396	0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[	Be	9				
[>	Sc	45		99.7		
[>	Ge	74		105.3		
|	Se	77				
|	Se	82				
|	Kr	83				
[>	In	115		100.0		
|	Sb	121				
|	Sb	123				
[>	Lu	175		99.7		
|	Tl	205				

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

Sample ID: 1202036451

Report Date/Time: Thursday, March 04, 2010 12:54:58

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202036452

Sample Date/Time: Thursday, March 04, 2010 12:56:59

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 950326|1|prb

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\1202036452.029

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	61.745	ug/L	4.695	1807	0.007
[>	Sc 45		ug/L		256488	256488.135
[>	Ge 74		ug/L		94114	94113.601
|	Se 77		ug/L		3643	0.031
|	Se 82	48.742	ug/L	2.605	1166	0.012
|	Kr 83		ug/L		25	0.000
[>	In 115		ug/L		61490	61490.071
|	Sb 121	62.152	ug/L	0.159	66887	1.062
|	Sb 123		ug/L		52014	0.826
[>	Lu 175		ug/L		114798	114797.666
|	Tl 205	48.181	ug/L	1.423	269532	2.347

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[	Be 9					
[>	Sc 45		103.0			
[>	Ge 74		108.9			
|	Se 77					
|	Se 82					
|	Kr 83					
[>	In 115		102.2			
|	Sb 121					
|	Sb 123					
[>	Lu 175		103.4			
|	Tl 205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 1202036452

Report Date/Time: Thursday, March 04, 2010 12:57:47

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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202036453

Sample Date/Time: Thursday, March 04, 2010 13:05:20

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 950326|1|prb

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\1202036453.032

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.023	ug/L	85.905	2	0.000
[>	Sc 45		ug/L		250804	250803.633
[>	Ge 74		ug/L		93112	93112.394
|	Se 77		ug/L		3433	0.029
|	Se 82	-0.560	ug/L	93.521	31	-0.000
[	Kr 83		ug/L		18	-0.000
[>	In 115		ug/L		60212	60211.964
|	Sb 121	-0.976	ug/L	3.718	524	-0.017
[	Sb 123		ug/L		403	-0.014
[>	Lu 175		ug/L		113237	113237.289
[	Tl 205	0.081	ug/L	6.147	599	0.004

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[Be 9					
[> Sc 45		100.7			
[> Ge 74		107.8			
| Se 77					
| Se 82					
[Kr 83					
[> In 115		100.1			
| Sb 121					
[Sb 123					
[> Lu 175		102.0			
[Tl 205					

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

Sample ID: 1202036453

Report Date/Time: Thursday, March 04, 2010 13:06:06

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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202036454

Sample Date/Time: Thursday, March 04, 2010 13:08:17

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 950326|1|prb

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\1202036454.033

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	67.247	ug/L	5.949	1962	0.008
[> Sc	45		ug/L		255681	255680.922
[> Ge	74		ug/L		95964	95963.929
| Se	77		ug/L		3847	0.032
| Se	82	18.721	ug/L	4.701	484	0.005
[Kr	83		ug/L		18	-0.000
[> In	115		ug/L		61607	61606.521
| Sb	121	247.342	ug/L	1.451	261999	4.228
[Sb	123		ug/L		203388	3.281
[> Lu	175		ug/L		116772	116771.622
[Tl	205	94.104	ug/L	1.056	535445	4.584

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ge	74	Linear Thru Zero	
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	0.9998
Kr	83	Linear Thru Zero	
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	0.9998
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9					
[> Sc	45		102.7			
[> Ge	74		111.1			
| Se	77					
| Se	82					
[Kr	83					
[> In	115		102.4			
| Sb	121					
[Sb	123					
[> Lu	175		105.2			
[Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 1202036454

Report Date/Time: Thursday, March 04, 2010 13:09:04

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QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202036454

Report Date/Time: Thursday, March 04, 2010 13:09:04

Page 2

ICPMS#3 - Summary Report

Sample ID: 1202036455

Sample Date/Time: Thursday, March 04, 2010 13:11:05

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 950326[5]prb

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\1202036455.034

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.034	ug/L	175.629	2	0.000
[> Sc	45		ug/L		252700	252700.212
[> Ge	74		ug/L		92223	92222.661
| Se	77		ug/L		1781	0.011
| Se	82	-1.062	ug/L	47.423	19	-0.000
[Kr	83		ug/L		19	-0.000
[> In	115		ug/L		61464	61464.425
| Sb	121	-1.108	ug/L	3.927	396	-0.019
[Sb	123		ug/L		295	-0.016
[> Lu	175		ug/L		114139	114138.966
[Tl	205	1.090	ug/L	4.396	6214	0.053

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[Be	9					
[> Sc	45		101.5			
[> Ge	74		106.7			
| Se	77					
| Se	82					
[Kr	83					
[> In	115		102.2			
| Sb	121					
[Sb	123					
[> Lu	175		102.8			
[Tl	205					

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

Sample ID: 1202036455

Report Date/Time: Thursday, March 04, 2010 13:11:52

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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 246323001

Sample Date/Time: Thursday, March 04, 2010 13:13:52

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950326|1|prb

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\246323001.035

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.022	ug/L	86.432	2	0.000
[> Sc	45		ug/L		253479	253479.411
[> Ge	74		ug/L		93821	93821.360
| Se	77		ug/L		3644	0.031
| Se	82	-0.762	ug/L	77.402	26	-0.000
[Kr	83		ug/L		19	-0.000
[> In	115		ug/L		60773	60773.103
| Sb	121	-1.072	ug/L	0.777	429	-0.018
[Sb	123		ug/L		328	-0.015
[> Lu	175		ug/L		112102	112102.256
[Tl	205	0.366	ug/L	3.359	2148	0.018

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[Be	9					
[> Sc	45		101.8			
[> Ge	74		108.6			
| Se	77					
| Se	82					
[Kr	83					
[> In	115		101.0			
| Sb	121					
[Sb	123					
[> Lu	175		101.0			
[Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 246323001

Report Date/Time: Thursday, March 04, 2010 13:14:38

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, March 04, 2010 13:16:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 6.036

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	55.242	ug/L	1.386	1614	0.006
[> Sc	45		ug/L		256199	256198.631
[> Ge	74		ug/L		93043	93043.287
[Se	77		ug/L		2140	0.015
[Se	82	44.064	ug/L	4.666	1046	0.011
[Kr	83		ug/L		24	0.000
[> In	115		ug/L		62588	62588.338
[Sb	121	48.252	ug/L	0.553	53212	0.825
[Sb	123		ug/L		41291	0.639
[> Lu	175		ug/L		116746	116746.358
[Tl	205	50.093	ug/L	0.800	285041	2.440

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ge	74	Linear Thru Zero	
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	0.9998
Kr	83	Linear Thru Zero	
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	0.9998
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[Be	9	110.484				
[> Sc	45		102.9			
[> Ge	74		107.7			
[Se	77					
[Se	82	88.128				
[Kr	83					
[> In	115		104.1			
[Sb	121	96.505				
[Sb	123					
[> Lu	175		105.2			
[Tl	205	100.185				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Be	9	CCV is out of limits (+/- 10%)
QC Std 6	Se	82	CCV is out of limits (+/- 10%)

Sample ID: QC Std 6

Report Date/Time: Thursday, March 04, 2010 13:17:25

Page 1

QC Action

QC Action Line: Continue

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, March 04, 2010 13:19:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 7.037

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be 9	0.034	ug/L	205.099	2	0.000
[>	Sc 45		ug/L		256708	256708.396
[>	Ge 74		ug/L		91075	91075.031
|	Se 77		ug/L		1196	0.005
|	Se 82	-0.583	ug/L	67.291	29	-0.000
[	Kr 83		ug/L		25	0.000
[>	In 115		ug/L		61291	61290.739
|	Sb 121	0.248	ug/L	16.912	1816	0.004
[	Sb 123		ug/L		1370	0.002
[>	Lu 175		ug/L		114730	114730.020
[	Tl 205	0.443	ug/L	2.052	2632	0.022

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ge	74Linear Thru Zero	
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	0.9998
Kr	83Linear Thru Zero	
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	0.9998
Sb	123Linear Thru Zero	
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
[Be 9					
[> Sc 45		103.1			
[> Ge 74		105.4			
| Se 77					
| Se 82					
[Kr 83					
[> In 115		101.9			
| Sb 121					
[Sb 123					
[> Lu 175		103.4			
[Tl 205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 7

Report Date/Time: Thursday, March 04, 2010 13:20:14

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, March 04, 2010 13:22:15

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\Blank.038

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc	45	ug/L		298787	
|	V	51	ug/L		297	
|	Cr	52	ug/L		1783	
|	Cr	53	ug/L		27059	
[>	Lu	175	ug/L		127117	
|	U	238	ug/L		42	

Sample ID: Blank

Report Date/Time: Thursday, March 04, 2010 13:22:43

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Simple Linear	
Cr	52Simple Linear	
Cr	53Simple Linear	
Lu	175Linear Thru Zero	
U	238Simple Linear	

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc	45					
|	V	51					
|	Cr	52					
|	Cr	53					
[>	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#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Thursday, March 04, 2010 13:24:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\Standard 1.039

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		300158	300157.978
|	V 51	10.000	ug/L	7.079	14754	0.048
|	Cr 52	10.000	ug/L	3.740	17988	0.054
|	Cr 53		ug/L		28875	0.006
[>	Lu 175		ug/L		128542	128541.925
|	U 238	10.000	ug/L	1.252	93282	0.725

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc	45					
|	V	51					
|	Cr	52					
|	Cr	53					
[>	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#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, March 04, 2010 13:26:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\Standard 2.040

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		306023	306022.965
|	V 51	100.034	ug/L	1.647	152439	0.497
|	Cr 52	99.955	ug/L	1.969	159881	0.517
[	Cr 53		ug/L		45622	0.059
[>	Lu 175		ug/L		130463	130462.639
[	U 238	99.961	ug/L	0.641	910570	6.979

Sample ID: Standard 2

Report Date/Time: Thursday, March 04, 2010 13:26:32

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc	45					
|	V	51					
|	Cr	52					
|	Cr	53					
[>	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#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, March 04, 2010 13:28:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 1.041

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		307605	307604.703
|	V 51	50.201	ug/L	3.363	77007	0.249
|	Cr 52	52.189	ug/L	3.546	84673	0.270
[	Cr 53		ug/L		36750	0.029
[>	Lu 175		ug/L		132114	132113.708
[	U 238	54.320	ug/L	1.190	500898	3.792

Sample ID: QC Std 1

Report Date/Time: Thursday, March 04, 2010 13:28:27

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc	45			103.0		
|	V	51	100.402				
|	Cr	52	104.378				
|	Cr	53					
[>	Lu	175			103.9		
|	U	238	108.641				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Thursday, March 04, 2010 13:29:58

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 2.042

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		303550	303549.535
|	V 51	-0.178	ug/L	811.911	152	-0.001
|	Cr 52	0.056	ug/L	31.070	1901	0.000
[	Cr 53		ug/L		27581	0.001
[>	Lu 175		ug/L		130020	130020.296
[	U 238	0.012	ug/L	17.181	149	0.001

Sample ID: QC Std 2

Report Date/Time: Thursday, March 04, 2010 13:30:26

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc	45		101.6		
[	V	51				
[	Cr	52				
[	Cr	53				
[>	Lu	175		102.3		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Thursday, March 04, 2010 13:31:56

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 3.043

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		308528	308528.165
|	V 51	10.569	ug/L	16.285	16622	0.053
|	Cr 52	11.417	ug/L	3.634	20032	0.059
[	Cr 53		ug/L		31312	0.011
[>	Lu 175		ug/L		130969	130968.603
	U 238	0.243	ug/L	4.469	2267	0.017

Sample ID: QC Std 3

Report Date/Time: Thursday, March 04, 2010 13:32:22

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc	45			103.3		
|	V	51	105.695				
|	Cr	52	114.172				
|	Cr	53					
[>	Lu	175			103.0		
	U	238	121.736				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Thursday, March 04, 2010 13:33:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 4.044

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		260414	260414.422
|	V 51	-1.893	ug/L	76.937	-2078	-0.009
|	Cr 52	2.708	ug/L	4.793	5189	0.014
|	Cr 53		ug/L		22063	-0.005
[>	Lu 175		ug/L		114962	114961.566
	U 238	0.001	ug/L	106.937	46	0.000

Sample ID: QC Std 4

Report Date/Time: Thursday, March 04, 2010 13:34:18

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc	45			87.2		
|	V	51					
|	Cr	52	82.048				
|	Cr	53					
[>	Lu	175			90.4		
|	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Thursday, March 04, 2010 13:35:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 5.045

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		262201	262201.272
|	V 51	19.160	ug/L	5.943	25321	0.095
|	Cr 52	23.437	ug/L	4.703	33240	0.121
|	Cr 53		ug/L		25850	0.009
[>	Lu 175		ug/L		115867	115867.262
	U 238	22.212	ug/L	1.364	179687	1.551

Sample ID: QC Std 5

Report Date/Time: Thursday, March 04, 2010 13:36:15

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc	45			87.8		
|	V	51	95.802				
|	Cr	52	100.587				
|	Cr	53					
[>	Lu	175			91.1		
|	U	238	111.062				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, March 04, 2010 13:37:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 6.046

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		306571	306570.669
|	V 51	49.032	ug/L	0.160	74975	0.244
|	Cr 52	48.616	ug/L	3.316	78752	0.251
|	Cr 53		ug/L		35527	0.026
[>	Lu 175		ug/L		131423	131423.409
	U 238	50.180	ug/L	0.428	460408	3.503

Sample ID: QC Std 6

Report Date/Time: Thursday, March 04, 2010 13:38:14

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc	45			102.6		
|	V	51	98.065				
|	Cr	52	97.232				
|	Cr	53					
[>	Lu	175			103.4		
|	U	238	100.359				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, March 04, 2010 13:39:46

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 7.047

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		309884	309883.878
|	V 51	-1.096	ug/L	116.152	-1271	-0.005
|	Cr 52	-0.159	ug/L	22.513	1594	-0.001
|	Cr 53		ug/L		27987	0.000
[>	Lu 175		ug/L		129508	129507.588
|	U 238	0.009	ug/L	12.726	121	0.001

Sample ID: QC Std 7

Report Date/Time: Thursday, March 04, 2010 13:40:14

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc	45			103.7		
|	V	51					
|	Cr	52					
|	Cr	53					
[>	Lu	175			101.9		
	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#3 - Summary Report

Sample ID: 1202036451

Sample Date/Time: Thursday, March 04, 2010 13:42:44

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 950326|1|prb

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\1202036451.048

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		298896	298895.621
|	V 51	-4.954	ug/L	62.012	-6873	-0.025
|	Cr 52	1.748	ug/L	6.091	4481	0.009
|	Cr 53		ug/L		69443	0.142
[>	Lu 175		ug/L		127919	127919.405
|	U 238	0.009	ug/L	5.301	126	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc	45			100.0		
|	V	51					
|	Cr	52					
|	Cr	53					
[>	Lu	175			100.6		
	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#3 - Summary Report

Sample ID: 1202036452

Sample Date/Time: Thursday, March 04, 2010 13:44:44

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 950326|1|prb

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\1202036452.049

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		307126	307125.527
|	V 51	48.404	ug/L	5.099	74307	0.240
|	Cr 52	52.529	ug/L	2.790	85164	0.272
[	Cr 53		ug/L		68130	0.132
[>	Lu 175		ug/L		130876	130876.183
[U 238	52.351	ug/L	2.096	478607	3.655

Sample ID: 1202036452

Report Date/Time: Thursday, March 04, 2010 13:45:12

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc	45			102.8		
|	V	51					
|	Cr	52					
|	Cr	53					
[>	Lu	175			103.0		
	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#3 - Summary Report

Sample ID: 246323001

Sample Date/Time: Thursday, March 04, 2010 13:47:12

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950326|1|prb

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\246323001.050

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc	45	ug/L		297956	297955.555
|	V	51	-4.386 ug/L	73.889	-6019	-0.022
|	Cr	52	2.644 ug/L	4.410	5846	0.014
|	Cr	53	ug/L		72417	0.153
[>	Lu	175	ug/L		126470	126469.734
	U	238	0.044 ug/L	2.297	434	0.003

Sample ID: 246323001

Report Date/Time: Thursday, March 04, 2010 13:47:40

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc	45			99.7		
|	V	51					
|	Cr	52					
|	Cr	53					
[>	Lu	175			99.5		
	U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202036453

Sample Date/Time: Thursday, March 04, 2010 13:51:08

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 950326|1|prb

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\1202036453.052

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		304089	304089.410
|	V 51	-7.907	ug/L	58.972	-11362	-0.039
|	Cr 52	4.517	ug/L	4.778	8905	0.023
|	Cr 53		ug/L		85140	0.190
[>	Lu 175		ug/L		127089	127089.151
|	U 238	0.035	ug/L	2.236	355	0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45			101.8		
|	V 51					
|	Cr 52					
|	Cr 53					
[>	Lu 175			100.0		
|	U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202036453

Report Date/Time: Thursday, March 04, 2010 13:51:36

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ICPMS#3 - Summary Report

Sample ID: 1202036454

Sample Date/Time: Thursday, March 04, 2010 13:53:07

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 950326|1|prb

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\1202036454.053

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Sc 45		ug/L		301190	301190.024
| V 51	46.056	ug/L	4.652	69319	0.229
| Cr 52	56.179	ug/L	2.753	89189	0.291
| Cr 53		ug/L		86616	0.198
[> Lu 175		ug/L		128884	128884.151
| U 238	52.804	ug/L	1.498	475112	3.687

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Sc 45		100.8			
| V 51					
| Cr 52					
| Cr 53					
[> Lu 175		101.4			
| U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202036454

Report Date/Time: Thursday, March 04, 2010 13:53:35

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ICPMS#3 - Summary Report

Sample ID: 1202036455

Sample Date/Time: Thursday, March 04, 2010 13:55:06

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 950326|5|prb

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\1202036455.054

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		307177	307176.783
|	V 51	-2.645	ug/L	105.955	-3529	-0.013
|	Cr 52	1.649	ug/L	2.613	4456	0.009
|	Cr 53		ug/L		47795	0.065
[>	Lu 175		ug/L		129612	129611.810
|	U 238	0.042	ug/L	0.240	422	0.003

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45			102.8		
|	V 51					
|	Cr 52					
|	Cr 53					
[>	Lu 175			102.0		
|	U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202036455

Report Date/Time: Thursday, March 04, 2010 13:55:34

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ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, March 04, 2010 13:57:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 6.055

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		307610	307609.827
|	V 51	47.189	ug/L	2.960	72522	0.234
|	Cr 52	49.209	ug/L	3.834	79942	0.254
|	Cr 53		ug/L		42508	0.048
[>	Lu 175		ug/L		131390	131389.527
|	U 238	49.972	ug/L	2.737	458001	3.489

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45		103.0			
|	V 51	94.378				
|	Cr 52	98.418				
|	Cr 53					
[>	Lu 175		103.4			
|	U 238	99.943				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, March 04, 2010 13:59:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\misc 6.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 7.056

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Sc 45		ug/L		308776	308776.031
|	V 51	-1.203	ug/L	96.484	-1447	-0.006
|	Cr 52	0.093	ug/L	126.135	1981	0.000
|	Cr 53		ug/L		31723	0.013
[>	Lu 175		ug/L		128976	128976.063
|	U 238	0.011	ug/L	5.975	141	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Sc	45Linear Thru Zero	
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Sc 45			103.3		
|	V 51					
|	Cr 52					
|	Cr 53					
[>	Lu 175			101.5		
|	U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Thursday, March 04, 2010 13:59:32

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ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Wednesday, March 03, 2010 12:04:40

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.636

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		6025.9		6025.871		118.104		2.0
Mg	24.0		55283.2		55283.165		371.214		0.7
Co	58.9		95810.4		95810.420		471.561		0.5
Rh	102.9		189365.5		189365.471		1478.717		0.8
In	114.9		270547.8		270547.787		2382.775		0.9
Pb	208.0		292457.1		292457.148		1806.253		0.6
[> Ba	137.9		263351.1		263351.108		2083.681		0.8
[Ba++	69.0		3503.3		0.013		0.000		0.8
[> Ce	139.9		326855.2		326855.202		1857.344		0.6
[CeO	155.9		8109.5		0.025		0.000		2.0
Bkgd	220.0		14.8		14.800		1.525		10.3

Current Optimization File Data

Current Value	Description
0.87	Nebulizer Gas Flow
6.00	Lens Voltage
1450.00	ICP RF Power
-1750.00	Analog Stage Voltage
1250.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	11	6.3	6153.0
Co	59	11	6.8	101263.0
In	115	11	7.5	285997.8

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	586	2050	0.706
Be	9.0	9.0	2053	2075	0.657
Mg	24.0	24.0	5685	2080	0.640
Mg	25.0	25.0	5925	2080	0.636
Mg	26.0	26.0	6179	2080	0.648
Co	58.9	59.0	14191	2110	0.629
Rh	102.9	102.9	24867	2160	0.640
In	114.9	114.9	27794	2180	0.645
Ce	139.9	139.9	33865	2200	0.640
Pb	206.0	206.0	49948	2295	0.633
Pb	207.0	207.0	50159	2240	0.639
Pb	208.0	208.0	50451	2265	0.710
U	238.1	238.1	57731	2275	0.735

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, March 04, 2010 02:41:32

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\Blank.232

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7		ug/L		67	
Be	9		ug/L		7	
B	11		ug/L		397	
Na	23		ug/L		7335	
Mg	24		ug/L		1000	
Al	27		ug/L		2667	
P	31		ug/L		4285	
K	39		ug/L		306274	
Ca	43		ug/L		109	
> Sc	45		ug/L		1478074	
Ti	47		ug/L		182	
V	51		ug/L		253	
Cr	52		ug/L		2305	
Cr	53		ug/L		41926	
Mn	55		ug/L		746	
Fe	57		ug/L		2477	
Co	59		ug/L		33	
Ni	60		ug/L		75	
Cu	63		ug/L		115	
Cu	65		ug/L		51	
Zn	66		ug/L		439	
Zn	67		ug/L		6312	
Zn	68		ug/L		1073	
> Ge	74		ug/L		328466	
As	75		ug/L		-108	
Se	77		ug/L		2060	
Se	82		ug/L		10	
Kr	83		ug/L		67	
Sr	88		ug/L		96	
Y	89		ug/L		47	
Mo	98		ug/L		48	
Ag	107		ug/L		20	
Cd	111		ug/L		12	
Cd	114		ug/L		29	
> In	115		ug/L		275709	
Sn	120		ug/L		177	
Sb	121		ug/L		85	
Sb	123		ug/L		69	
Ba	135		ug/L		19	
Ba	137		ug/L		35	
Ho	165		ug/L		15	
> Lu	175		ug/L		657600	
Tl	205		ug/L		5652	
Pb	208		ug/L		319	
Bi	209		ug/L		567	
Th	232		ug/L		392	
U	238		ug/L		197	

Sample ID: Blank

Report Date/Time: Thursday, March 04, 2010 02:44:16

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	0.9999
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	0.9999
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9999
U	238Linear 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					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
|>	Sc	45					
|	Ti	47					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
|>	Ge	74					
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
|>	In	115					
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
|>	Lu	175					
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	Th	232					
|	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Thursday, March 04, 2010 02:47:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\Standard 1.233

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	10.000	ug/L	1.077	22874	0.017
Be	9	10.000	ug/L	0.499	4424	0.003
B	11	20.000	ug/L	2.062	9411	0.007
Na	23	1000.000	ug/L	8.167	2836041	2.067
Mg	24	1000.000	ug/L	3.031	2165965	1.581
Al	27	1000.000	ug/L	5.129	2651021	1.934
P	31	1000.000	ug/L	1.674	156424	0.111
K	39	1000.000	ug/L	6.830	3708036	2.499
Ca	43	1000.000	ug/L	2.638	9419	0.007
> Sc	45		ug/L		1369500	1369499.663
Ti	47	10.000	ug/L	2.088	4798	0.003
V	51	10.000	ug/L	10.834	47283	0.034
Cr	52	10.000	ug/L	2.860	43550	0.030
Cr	53		ug/L		75848	0.027
Mn	55	10.000	ug/L	1.580	74035	0.054
Fe	57	1000.000	ug/L	2.106	147184	0.106
Co	59	10.000	ug/L	1.180	54002	0.039
Ni	60	10.000	ug/L	1.341	11326	0.008
Cu	63		ug/L		25952	0.019
Cu	65	10.000	ug/L	0.519	12808	0.009
Zn	66	10.000	ug/L	2.401	9625	0.031
Zn	67		ug/L		11846	0.020
Zn	68		ug/L		7741	0.023
> Ge	74		ug/L		298834	298834.183
As	75	10.000	ug/L	2.344	8158	0.028
Se	77		ug/L		4647	0.009
Se	82	10.000	ug/L	0.416	1013	0.003
Kr	83		ug/L		58	-0.000
Sr	88	10.000	ug/L	2.252	124940	0.476
Y	89		ug/L		50	0.000
Mo	98	10.000	ug/L	1.782	29100	0.111
Ag	107	10.000	ug/L	1.744	55089	0.210
Cd	111	10.000	ug/L	1.985	15231	0.058
Cd	114		ug/L		36990	0.141
> In	115		ug/L		262160	262159.761
Sn	120	10.000	ug/L	1.807	65858	0.251
Sb	121	10.000	ug/L	2.317	55336	0.211
Sb	123		ug/L		43880	0.167
Ba	135		ug/L		16029	0.025
Ba	137	10.000	ug/L	2.118	28505	0.045
Ho	165		ug/L		10	-0.000
> Lu	175		ug/L		631809	631809.085
Tl	205	10.000	ug/L	1.840	276884	0.430
Pb	208	10.000	ug/L	0.598	472153	0.747
Bi	209		ug/L		499	-0.000
Th	232	10.000	ug/L	0.376	584529	0.925
U	238	10.000	ug/L	1.915	635713	1.006

Sample ID: Standard 1

Report Date/Time: Thursday, March 04, 2010 02:50:20

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	1.0000
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	1.0000
Co	59Linear Thru Zero	1.0000
Ni	60Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Zn	66Linear Thru Zero	1.0000
Zn	67Linear Thru Zero	
Zn	68Linear Thru Zero	
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Sr	88Linear Thru Zero	1.0000
Y	89Linear Thru Zero	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
Pb	208Linear Thru Zero	1.0000
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

Sample ID: Standard 1

Report Date/Time: Thursday, March 04, 2010 02:50:20

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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					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
L Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
L Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
L Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					
Tl	205					
Pb	208					
Bi	209					
Th	232					
L 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: Standard 2

Sample Date/Time: Thursday, March 04, 2010 02:53:43

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\Standard 2.234

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	99.966	ug/L	0.729	235285	0.161
Be	9	99.979	ug/L	2.623	46125	0.032
B	11	200.000	ug/L	2.395	96825	0.066
Na	23	10015.640	ug/L	1.461	35833928	24.535
Mg	24	9999.110	ug/L	6.277	22902723	15.670
Al	27	10008.029	ug/L	6.521	30718357	21.049
P	31	9992.094	ug/L	0.715	1509637	1.031
K	39	9995.906	ug/L	0.321	35356948	24.002
Ca	43	10001.016	ug/L	1.005	100521	0.069
> Sc	45		ug/L		1460562	1460561.846
Ti	47	99.995	ug/L	0.933	49268	0.034
V	51	100.051	ug/L	0.782	529065	0.362
Cr	52	99.932	ug/L	0.856	415675	0.283
Cr	53		ug/L		126684	0.058
Mn	55	99.945	ug/L	2.688	741518	0.507
Fe	57	9989.344	ug/L	0.234	1397415	0.955
Co	59	99.944	ug/L	1.816	544690	0.373
Ni	60	99.953	ug/L	1.068	114676	0.078
Cu	63		ug/L		266267	0.182
Cu	65	99.952	ug/L	1.965	129862	0.089
Zn	66	99.984	ug/L	1.485	97559	0.304
Zn	67		ug/L		27214	0.066
Zn	68		ug/L		70646	0.218
> Ge	74		ug/L		319754	319753.655
As	75	100.027	ug/L	2.056	90689	0.284
Se	77		ug/L		12220	0.032
Se	82	99.945	ug/L	1.347	10188	0.032
Kr	83		ug/L		85	0.000
Sr	88	99.967	ug/L	0.546	1230495	4.608
Y	89		ug/L		149	0.000
Mo	98	100.038	ug/L	2.104	307657	1.152
Ag	107	99.970	ug/L	0.918	544238	2.038
Cd	111	100.022	ug/L	1.242	158627	0.594
Cd	114		ug/L		376927	1.411
> In	115		ug/L		267019	267019.296
Sn	120	99.990	ug/L	2.493	662804	2.482
Sb	121	99.988	ug/L	2.293	556162	2.083
Sb	123		ug/L		442029	1.655
Ba	135		ug/L		163862	0.260
Ba	137	100.027	ug/L	1.186	292498	0.463
Ho	165		ug/L		18	0.000
> Lu	175		ug/L		631034	631033.732
Tl	205	99.797	ug/L	0.614	2254036	3.563
Pb	208	99.851	ug/L	0.495	4096510	6.491
Bi	209		ug/L		1147	0.001
Th	232	99.822	ug/L	1.196	4945594	7.837
U	238	99.824	ug/L	0.168	5387457	8.537

Sample ID: Standard 2

Report Date/Time: Thursday, March 04, 2010 02:56:24

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45					
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74					
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115					
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175					
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 2

Report Date/Time: Thursday, March 04, 2010 02:56:24

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ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, March 04, 2010 02:59:47

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 1.235

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	51.978	ug/L	0.902	125343	0.084
Be	9	52.419	ug/L	1.802	24781	0.017
B	11	107.156	ug/L	2.506	53327	0.035
Na	23	4806.450	ug/L	10.290	17610233	11.774
Mg	24	5177.546	ug/L	7.731	12148237	8.114
Al	27	4754.781	ug/L	3.299	14968502	10.000
P	31	5283.042	ug/L	1.761	819610	0.545
K	39	5045.000	ug/L	4.545	18432091	12.114
Ca	43	5001.049	ug/L	1.042	51539	0.034
> Sc	45		ug/L		1496124	1496123.634
Ti	47	50.998	ug/L	0.636	25832	0.017
V	51	50.536	ug/L	4.226	273806	0.183
Cr	52	52.922	ug/L	1.903	226582	0.150
Cr	53		ug/L		108321	0.044
Mn	55	52.576	ug/L	2.821	400007	0.267
Fe	57	5337.436	ug/L	1.738	765924	0.510
Co	59	51.195	ug/L	1.799	285840	0.191
Ni	60	52.384	ug/L	1.555	61598	0.041
Cu	63		ug/L		143259	0.096
Cu	65	52.199	ug/L	0.252	69514	0.046
Zn	66	51.783	ug/L	1.501	51572	0.157
Zn	67		ug/L		20225	0.043
Zn	68		ug/L		37958	0.114
> Ge	74		ug/L		324991	324990.770
As	75	50.666	ug/L	0.706	46650	0.144
Se	77		ug/L		8603	0.020
Se	82	53.672	ug/L	1.215	5566	0.017
Kr	83		ug/L		68	0.000
Sr	88	55.299	ug/L	2.014	682389	2.549
Y	89		ug/L		83	0.000
Mo	98	50.765	ug/L	4.445	156449	0.585
Ag	107	52.523	ug/L	2.208	286635	1.071
Cd	111	51.880	ug/L	3.117	82469	0.308
Cd	114		ug/L		196480	0.734
> In	115		ug/L		267781	267780.744
Sn	120	52.392	ug/L	3.632	348109	1.300
Sb	121	52.431	ug/L	3.748	292285	1.092
Sb	123		ug/L		232084	0.867
Ba	135		ug/L		85574	0.134
Ba	137	51.579	ug/L	1.713	152328	0.239
Ho	165		ug/L		44	0.000
> Lu	175		ug/L		637292	637292.148
Tl	205	55.682	ug/L	0.405	1272548	1.988
Pb	208	55.200	ug/L	1.441	2287020	3.588
Bi	209		ug/L		840	0.000
Th	232	52.069	ug/L	1.073	2605589	4.088
U	238	53.633	ug/L	1.364	2923153	4.587

Sample ID: QC Std 1

Report Date/Time: Thursday, March 04, 2010 03:02:29

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Li	7	103.956				
Be	9	104.838				
B	11	107.156				
Na	23	96.129				
Mg	24	103.551				
Al	27	94.154				
P	31	105.661				
K	39	100.900				
Ca	43	100.021				
> Sc	45		101.2			
Ti	47	101.996				
V	51	101.071				
Cr	52	105.844				
Cr	53					
Mn	55	105.152				
Fe	57	106.749				
Co	59	102.389				
Ni	60	104.768				
Cu	63					
Cu	65	104.397				
Zn	66	103.565				
Zn	67					
Zn	68					
> Ge	74		98.9			
As	75	101.333				
Se	77					
Se	82	107.343				
Kr	83					
Sr	88	110.598				
Y	89					
Mo	98	101.530				
Ag	107	105.047				
Cd	111	103.760				
Cd	114					
> In	115		97.1			
Sn	120	104.784				
Sb	121	104.863				
Sb	123					
Ba	135					
Ba	137	103.159				
Ho	165					
> Lu	175		96.9			
Tl	205	111.365				
Pb	208	110.400				
Bi	209					
Th	232	104.138				
U	238	107.267				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 1	Sr	88	88ICV is out of limits (+/- 10%)
QC Std 1	Tl	205	205ICV is out of limits (+/- 10%)
QC Std 1	Pb	208	208ICV is out of limits (+/- 10%)

QC Action

Sample ID: QC Std 1
 Report Date/Time: Thursday, March 04, 2010 03:02:29
 Page 3

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Thursday, March 04, 2010 03:05:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 2.236

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.024	ug/L	31.758	131	0.000
Be	9	0.005	ug/L	177.415	10	0.000
B	11	3.948	ug/L	17.531	2458	0.001
Na	23	2.159	ug/L	85.800	16010	0.005
Mg	24	1.745	ug/L	71.684	5335	0.003
Al	27	0.565	ug/L	165.983	4668	0.001
P	31	0.542	ug/L	285.420	4622	0.000
K	39	0.247	ug/L	1226.724	324991	0.001
Ca	43	1.522	ug/L	108.063	132	0.000
> Sc	45		ug/L		1564058	1564057.904
Ti	47	-0.052	ug/L	51.092	166	-0.000
V	51	-0.226	ug/L	45.906	-1011	-0.001
Cr	52	0.162	ug/L	15.373	3159	0.000
Cr	53		ug/L		47778	0.002
Mn	55	0.010	ug/L	8.481	867	0.000
Fe	57	1.271	ug/L	28.336	2811	0.000
Co	59	0.010	ug/L	40.434	92	0.000
Ni	60	0.023	ug/L	44.404	107	0.000
Cu	63		ug/L		143	0.000
Cu	65	0.017	ug/L	37.794	77	0.000
Zn	66	-0.036	ug/L	43.949	429	-0.000
Zn	67		ug/L		6737	0.000
Zn	68		ug/L		1084	-0.000
> Ge	74		ug/L		349750	349750.460
As	75	-0.001	ug/L	7242.163	-115	-0.000
Se	77		ug/L		2438	0.001
Se	82	0.036	ug/L	394.826	15	0.000
Kr	83		ug/L		58	-0.000
Sr	88	0.010	ug/L	38.008	229	0.000
Y	89		ug/L		35	-0.000
Mo	98	0.032	ug/L	20.849	155	0.000
Ag	107	0.011	ug/L	43.329	83	0.000
Cd	111	0.011	ug/L	28.905	32	0.000
Cd	114		ug/L		71	0.000
> In	115		ug/L		285399	285399.047
Sn	120	0.019	ug/L	26.361	320	0.000
Sb	121	0.110	ug/L	14.253	743	0.002
Sb	123		ug/L		567	0.002
Ba	135		ug/L		39	0.000
Ba	137	0.008	ug/L	28.803	60	0.000
Ho	165		ug/L		9	-0.000
> Lu	175		ug/L		664211	664210.565
Tl	205	0.477	ug/L	27.575	17001	0.017
Pb	208	0.012	ug/L	35.091	833	0.001
Bi	209		ug/L		512	-0.000
Th	232	0.024	ug/L	5.368	1624	0.002
U	238	0.013	ug/L	24.434	966	0.001

Sample ID: QC Std 2

Report Date/Time: Thursday, March 04, 2010 03:08:39

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear 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						
|	B	11						
|	Na	23						
|	Mg	24						
|	Al	27						
|	P	31						
|	K	39						
|	Ca	43						
>	Sc	45		105.8				
|	Ti	47						
|	V	51						
|	Cr	52						
|	Cr	53						
|	Mn	55						
|	Fe	57						
|	Co	59						
|	Ni	60						
|	Cu	63						
|	Cu	65						
|	Zn	66						
|	Zn	67						
|	Zn	68						
>	Ge	74		106.5				
|	As	75						
|	Se	77						
|	Se	82						
|	Kr	83						
|	Sr	88						
|	Y	89						
|	Mo	98						
|	Ag	107						
|	Cd	111						
|	Cd	114						
>	In	115		103.5				
|	Sn	120						
|	Sb	121						
|	Sb	123						
|	Ba	135						
|	Ba	137						
|	Ho	165						
>	Lu	175		101.0				
|	Tl	205						
|	Pb	208						
|	Bi	209						
|	Th	232						
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Thursday, March 04, 2010 03:12:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 3.237

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	11.340	ug/L	1.569	26673	0.018
Be	9	0.572	ug/L	5.429	270	0.000
B	11	17.440	ug/L	4.282	8776	0.006
Na	23	249.511	ug/L	9.384	896719	0.611
Mg	24	23.683	ug/L	15.687	55108	0.037
Al	27	42.139	ug/L	14.554	131610	0.089
P	31	77.671	ug/L	4.564	15892	0.008
K	39	355.305	ug/L	1.957	1544552	0.853
Ca	43	216.422	ug/L	0.795	2275	0.001
> Sc	45		ug/L		1456890	1456890.285
Ti	47	8.654	ug/L	2.507	4418	0.003
V	51	9.439	ug/L	8.706	49977	0.034
Cr	52	11.617	ug/L	2.881	50204	0.033
Cr	53		ug/L		80729	0.027
Mn	55	5.902	ug/L	2.233	44380	0.030
Fe	57	124.603	ug/L	1.365	19797	0.012
Co	59	1.136	ug/L	1.380	6209	0.004
Ni	60	2.331	ug/L	6.421	2739	0.002
Cu	63		ug/L		3297	0.002
Cu	65	1.194	ug/L	2.181	1597	0.001
Zn	66	11.514	ug/L	2.172	11580	0.035
Zn	67		ug/L		12115	0.019
Zn	68		ug/L		9208	0.026
> Ge	74		ug/L		318828	318827.711
As	75	5.459	ug/L	3.933	4838	0.016
Se	77		ug/L		4562	0.008
Se	82	6.375	ug/L	5.264	657	0.002
Kr	83		ug/L		52	-0.000
Sr	88	11.793	ug/L	3.098	146667	0.544
Y	89		ug/L		48	0.000
Mo	98	0.557	ug/L	5.223	1776	0.006
Ag	107	1.050	ug/L	0.897	5791	0.021
Cd	111	1.133	ug/L	6.547	1825	0.007
Cd	114		ug/L		4288	0.016
> In	115		ug/L		269663	269662.869
Sn	120	5.524	ug/L	2.252	37140	0.137
Sb	121	3.409	ug/L	3.079	19226	0.071
Sb	123		ug/L		15176	0.056
Ba	135		ug/L		3600	0.006
Ba	137	2.158	ug/L	2.728	6402	0.010
Ho	165		ug/L		16	0.000
> Lu	175		ug/L		636914	636913.868
Tl	205	1.402	ug/L	0.409	37364	0.050
Pb	208	2.520	ug/L	1.725	104621	0.164
Bi	209		ug/L		492	-0.000
Th	232	1.373	ug/L	0.309	69054	0.108
U	238	0.300	ug/L	2.755	16517	0.026

Sample ID: QC Std 3

Report Date/Time: Thursday, March 04, 2010 03:14:43

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	113.397				
Be	9	114.355				
B	11	116.270				
Na	23	99.804				
Mg	24	157.886				
Al	27	140.464				
P	31	155.343				
K	39	118.435				
Ca	43	108.211				
> Sc	45		98.6			
Ti	47	86.544				
V	51	94.394				
Cr	52	116.173				
Cr	53					
Mn	55	118.049				
Fe	57	124.603				
Co	59	113.598				
Ni	60	116.560				
Cu	63					
Cu	65	119.413				
Zn	66	115.137				
Zn	67					
Zn	68					
> Ge	74		97.1			
As	75	109.186				
Se	77					
Se	82	127.497				
Kr	83					
Sr	88	117.931				
Y	89					
Mo	98	111.355				
Ag	107	104.975				
Cd	111	113.251				
Cd	114					
> In	115		97.8			
Sn	120	110.484				
Sb	121	113.627				
Sb	123					
Ba	135					
Ba	137	107.920				
Ho	165					
> Lu	175		96.9			
Tl	205	140.219				
Pb	208	125.975				
Bi	209					
Th	232	137.334				
U	238	149.887				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Mg	24	CRDL is out of limits
QC Std 3	Al	27	CRDL is out of limits
QC Std 3	P	31	CRDL is out of limits
QC Std 3	Tl	205	CRDL is out of limits
QC Std 3	Th	232	CRDL is out of limits
QC Std 3	U	238	CRDL is out of limits

Sample ID: QC Std 3

Report Date/Time: Thursday, March 04, 2010 03:14:43

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QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Thursday, March 04, 2010 03:18:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 4.238

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.101	ug/L	3.010	288	0.000
Be	9	0.080	ug/L	13.781	42	0.000
B	11	1.751	ug/L	10.920	1177	0.001
Na	23	91066.358	ug/L	4.534	310197177	223.079
Mg	24	97199.602	ug/L	3.603	211807135	152.328
Al	27	92756.490	ug/L	3.651	271285957	195.090
P	31	91011.566	ug/L	0.860	13059408	9.389
K	39	100158.588	ug/L	2.104	334738061	240.496
Ca	43	91286.964	ug/L	1.314	872622	0.627
> Sc	45		ug/L		1390586	1390586.420
Ti	47	1590.960	ug/L	0.640	743837	0.535
V	51	0.449	ug/L	279.347	2451	0.002
Cr	52	2.025	ug/L	3.747	10141	0.006
Cr	53		ug/L		64775	0.018
Mn	55	5.687	ug/L	1.288	40847	0.029
Fe	57	104493.896	ug/L	3.203	13893157	9.991
Co	59	0.418	ug/L	4.365	2202	0.002
Ni	60	4.482	ug/L	2.713	4964	0.004
Cu	63		ug/L		5969	0.004
Cu	65	3.788	ug/L	2.610	4733	0.003
Zn	66	4.235	ug/L	3.831	4280	0.013
Zn	67		ug/L		11115	0.018
Zn	68		ug/L		2012	0.003
> Ge	74		ug/L		301362	301362.076
As	75	0.125	ug/L	184.348	10	0.000
Se	77		ug/L		5626	0.012
Se	82	-1.639	ug/L	27.101	-148	-0.001
Kr	83		ug/L		338	0.001
Sr	88	3.198	ug/L	1.030	36513	0.147
Y	89		ug/L		435	0.002
Mo	98	1774.206	ug/L	1.403	5048149	20.431
Ag	107	0.114	ug/L	10.542	595	0.002
Cd	111	0.661	ug/L	6.478	981	0.004
Cd	114		ug/L		10257	0.041
> In	115		ug/L		247099	247098.685
Sn	120	0.262	ug/L	1.521	1764	0.006
Sb	121	0.066	ug/L	12.010	416	0.001
Sb	123		ug/L		318	0.001
Ba	135		ug/L		1180	0.002
Ba	137	0.750	ug/L	1.422	1992	0.003
Ho	165		ug/L		11111	0.020
> Lu	175		ug/L		564690	564690.202
Tl	205	0.037	ug/L	27.469	5591	0.001
Pb	208	0.237	ug/L	1.307	8970	0.015
Bi	209		ug/L		6610	0.011
Th	232	0.053	ug/L	31.950	2676	0.004
U	238	0.017	ug/L	5.829	974	0.001

Sample ID: QC Std 4

Report Date/Time: Thursday, March 04, 2010 03:20:49

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear 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					
B	11					
Na	23	91.066				
Mg	24	97.200				
Al	27	92.756				
P	31	91.012				
K	39	100.159				
Ca	43	91.287				
> Sc	45		94.1			
Ti	47	79.548				
V	51					
Cr	52	61.349				
Cr	53					
Mn	55	98.055				
Fe	57	104.494				
Co	59	178.031				
Ni	60	135.419				
Cu	63					
Cu	65	113.408				
Zn	66	112.629				
Zn	67					
Zn	68					
> Ge	74		91.7			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88	108.052				
Y	89					
Mo	98	88.710				
Ag	107					
Cd	111	148.922				
Cd	114					
> In	115		89.6			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137	93.992				
Ho	165					
> Lu	175		85.9			
Tl	205					
Pb	208	125.326				
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 4	Ti	47	ICSA is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Thursday, March 04, 2010 03:24:13

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 5.239

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	18.437	ug/L	0.572	39941	0.030
Be	9	18.001	ug/L	0.883	7643	0.006
B	11	18.170	ug/L	1.446	8416	0.006
Na	23	87157.002	ug/L	4.066	286671424	213.503
Mg	24	95019.667	ug/L	5.973	199925272	148.911
Al	27	90051.073	ug/L	0.945	254319422	189.400
P	31	91530.086	ug/L	0.973	12682634	9.442
K	39	101754.003	ug/L	4.667	328396870	244.327
Ca	43	91787.441	ug/L	1.592	847175	0.631
Sc	45		ug/L		1342807	1342806.923
Ti	47	1600.143	ug/L	0.750	722420	0.538
V	51	20.681	ug/L	6.334	100697	0.075
Cr	52	22.184	ug/L	0.373	86472	0.063
Cr	53		ug/L		69439	0.023
Mn	55	26.022	ug/L	0.427	178065	0.132
Fe	57	105856.796	ug/L	2.233	13591557	10.121
Co	59	19.810	ug/L	0.465	99305	0.074
Ni	60	22.287	ug/L	0.565	23564	0.017
Cu	63		ug/L		50244	0.037
Cu	65	22.340	ug/L	0.086	26729	0.020
Zn	66	22.452	ug/L	1.826	20563	0.068
Zn	67		ug/L		13234	0.026
Zn	68		ug/L		13673	0.043
Ge	74		ug/L		295610	295610.472
As	75	20.632	ug/L	3.424	17221	0.059
Se	77		ug/L		6692	0.016
Se	82	19.649	ug/L	6.606	1859	0.006
Kr	83		ug/L		303	0.001
Sr	88	26.057	ug/L	0.905	292274	1.201
Y	89		ug/L		430	0.002
Mo	98	1781.546	ug/L	0.766	4991036	20.516
Ag	107	18.880	ug/L	0.488	93656	0.385
Cd	111	19.154	ug/L	1.080	27686	0.114
Cd	114		ug/L		75243	0.309
In	115		ug/L		243274	243274.121
Sn	120	20.583	ug/L	1.712	124427	0.511
Sb	121	20.744	ug/L	0.862	105187	0.432
Sb	123		ug/L		81725	0.336
Ba	135		ug/L		31051	0.056
Ba	137	21.594	ug/L	1.616	55465	0.100
Ho	165		ug/L		11024	0.020
Lu	175		ug/L		554111	554110.792
Tl	205	22.437	ug/L	0.262	448709	0.801
Pb	208	21.732	ug/L	0.594	783112	1.413
Bi	209		ug/L		7134	0.012
Th	232	23.652	ug/L	1.484	1029243	1.857
U	238	24.204	ug/L	1.863	1147164	2.070

Sample ID: QC Std 5

Report Date/Time: Thursday, March 04, 2010 03:26:55

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Li	7	92.183				
Be	9	90.007				
B	11	90.851				
Na	23	87.157				
Mg	24	95.020				
Al	27	90.051				
P	31	91.530				
K	39	101.754				
Ca	43	91.787				
> Sc	45		90.8			
Ti	47	80.007				
V	51	103.405				
Cr	52	95.208				
Cr	53					
Mn	55	100.860				
Fe	57	105.857				
Co	59	97.901				
Ni	60	95.610				
Cu	63					
Cu	65	95.717				
Zn	66	94.493				
Zn	67					
Zn	68					
> Ge	74		90.0			
As	75	103.158				
Se	77					
Se	82	98.243				
Kr	83					
Sr	88	113.487				
Y	89					
Mo	98	89.077				
Ag	107	94.398				
Cd	111	93.690				
Cd	114					
> In	115		88.2			
Sn	120	102.915				
Sb	121	103.722				
Sb	123					
Ba	135					
Ba	137	103.827				
Ho	165					
> Lu	175		84.3			
Tl	205	112.187				
Pb	208	107.645				
Bi	209					
Th	232	118.260				
U	238	121.022				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 5	U	238	ICSAB is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, March 04, 2010 03:30:20

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 6.240

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	50.355	ug/L	1.846	112800	0.081
Be	9	50.103	ug/L	3.217	22003	0.016
B	11	97.868	ug/L	1.552	45282	0.032
Na	23	4436.877	ug/L	3.856	15122307	10.869
Mg	24	4996.407	ug/L	2.317	10883636	7.830
Al	27	4654.453	ug/L	3.321	13606714	9.789
P	31	5140.373	ug/L	2.046	741030	0.530
K	39	5036.407	ug/L	2.862	17099000	12.093
Ca	43	4839.403	ug/L	2.079	46333	0.033
> Sc	45		ug/L		1390168	1390167.942
Ti	47	51.411	ug/L	1.731	24196	0.017
V	51	49.555	ug/L	1.159	249537	0.179
Cr	52	51.502	ug/L	1.248	204950	0.146
Cr	53		ug/L		97081	0.041
Mn	55	51.886	ug/L	1.296	366851	0.263
Fe	57	5278.561	ug/L	1.896	703859	0.505
Co	59	50.052	ug/L	2.427	259647	0.187
Ni	60	51.913	ug/L	2.228	56714	0.041
Cu	63		ug/L		129868	0.093
Cu	65	51.798	ug/L	1.594	64083	0.046
Zn	66	50.678	ug/L	1.199	47667	0.154
Zn	67		ug/L		17916	0.039
Zn	68		ug/L		34510	0.109
> Ge	74		ug/L		306895	306894.631
As	75	49.714	ug/L	3.580	43203	0.141
Se	77		ug/L		7755	0.019
Se	82	50.980	ug/L	1.891	4991	0.016
Kr	83		ug/L		63	0.000
Sr	88	51.428	ug/L	0.560	628337	2.371
Y	89		ug/L		89	0.000
Mo	98	48.116	ug/L	1.090	146896	0.554
Ag	107	49.217	ug/L	1.484	265922	1.003
Cd	111	48.966	ug/L	1.917	77082	0.291
Cd	114		ug/L		186112	0.702
> In	115		ug/L		265026	265026.461
Sn	120	50.317	ug/L	2.397	331058	1.249
Sb	121	50.123	ug/L	0.979	276741	1.044
Sb	123		ug/L		216068	0.815
Ba	135		ug/L		79677	0.128
Ba	137	49.808	ug/L	0.682	144215	0.231
Ho	165		ug/L		44	0.000
> Lu	175		ug/L		624812	624811.544
Tl	205	53.527	ug/L	2.523	1199300	1.911
Pb	208	53.578	ug/L	0.675	2176432	3.483
Bi	209		ug/L		854	0.001
Th	232	50.940	ug/L	2.620	2498725	3.999
U	238	52.575	ug/L	3.059	2808824	4.496

Sample ID: QC Std 6

Report Date/Time: Thursday, March 04, 2010 03:33:03

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	100.709				
Be	9	100.205				
B	11	97.868				
Na	23	88.738				
Mg	24	99.928				
Al	27	92.167				
P	31	102.807				
K	39	100.728				
Ca	43	96.788				
> Sc	45		94.1			
Ti	47	102.821				
V	51	99.111				
Cr	52	103.005				
Cr	53					
Mn	55	103.773				
Fe	57	105.571				
Co	59	100.104				
Ni	60	103.825				
Cu	63					
Cu	65	103.596				
Zn	66	101.357				
Zn	67					
Zn	68					
> Ge	74		93.4			
As	75	99.428				
Se	77					
Se	82	101.960				
Kr	83					
Sr	88	102.857				
Y	89					
Mo	98	96.232				
Ag	107	98.433				
Cd	111	97.932				
Cd	114					
> In	115		96.1			
Sn	120	100.633				
Sb	121	100.247				
Sb	123					
Ba	135					
Ba	137	99.616				
Ho	165					
> Lu	175		95.0			
Tl	205	107.053				
Pb	208	107.156				
Bi	209					
Th	232	101.880				
U	238	105.149				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Na	23	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, March 04, 2010 03:36:28

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 7.241

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.004	ug/L	88.082	76	0.000
Be	9	0.010	ug/L	31.107	12	0.000
B	11	2.390	ug/L	21.972	1550	0.001
Na	23	2.250	ug/L	5.572	15342	0.006
Mg	24	2.344	ug/L	121.831	6336	0.004
Al	27	2.063	ug/L	41.118	9003	0.004
P	31	-0.042	ug/L	4867.930	4239	-0.000
K	39	-1.510	ug/L	246.565	298080	-0.004
Ca	43	2.946	ug/L	45.872	138	0.000
> Sc	45		ug/L		1464499	1464499.142
Ti	47	0.017	ug/L	160.672	189	0.000
V	51	-0.124	ug/L	247.676	-400	-0.000
Cr	52	0.015	ug/L	330.626	2346	0.000
Cr	53		ug/L		43392	0.001
Mn	55	-0.005	ug/L	79.411	700	-0.000
Fe	57	2.194	ug/L	37.847	2762	0.000
Co	59	0.004	ug/L	34.228	54	0.000
Ni	60	0.007	ug/L	154.707	83	0.000
Cu	63		ug/L		124	0.000
Cu	65	0.014	ug/L	19.118	69	0.000
Zn	66	0.010	ug/L	324.810	450	0.000
Zn	67		ug/L		6022	-0.001
Zn	68		ug/L		1016	-0.000
> Ge	74		ug/L		328681	328681.322
As	75	0.125	ug/L	144.439	9	0.000
Se	77		ug/L		2248	0.001
Se	82	0.111	ug/L	67.066	22	0.000
Kr	83		ug/L		60	-0.000
Sr	88	0.002	ug/L	54.523	123	0.000
Y	89		ug/L		31	-0.000
Mo	98	0.072	ug/L	2.603	278	0.001
Ag	107	0.006	ug/L	31.611	54	0.000
Cd	111	0.006	ug/L	36.629	22	0.000
Cd	114		ug/L		48	0.000
> In	115		ug/L		278376	278375.578
Sn	120	0.012	ug/L	17.174	264	0.000
Sb	121	0.062	ug/L	19.285	443	0.001
Sb	123		ug/L		356	0.001
Ba	135		ug/L		25	0.000
Ba	137	0.003	ug/L	103.984	44	0.000
Ho	165		ug/L		9	-0.000
> Lu	175		ug/L		662491	662491.070
Tl	205	0.402	ug/L	19.637	15212	0.014
Pb	208	0.004	ug/L	11.989	504	0.000
Bi	209		ug/L		528	-0.000
Th	232	0.020	ug/L	0.852	1421	0.002
U	238	0.006	ug/L	8.440	565	0.001

Sample ID: QC Std 7

Report Date/Time: Thursday, March 04, 2010 03:39:12

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		99.1			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		100.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		101.0			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		100.7			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Thursday, March 04, 2010 03:39:12

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ICPMS#5 - Summary Report

Sample ID: QC Std 10

Sample Date/Time: Thursday, March 04, 2010 03:42:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 10.242

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	861.337	ug/L	0.825	1732194	1.387
Be	9	914.866	ug/L	1.277	360847	0.289
B	11	1.693	ug/L	4.695	1033	0.001
Na	23	44852.293	ug/L	4.810	137103725	109.872
Mg	24	48833.113	ug/L	4.157	95571512	76.529
Al	27	46400.561	ug/L	4.453	121801858	97.592
P	31	22807.169	ug/L	1.446	2941032	2.353
K	39	51008.995	ug/L	2.803	153149389	122.480
Ca	43	47370.440	ug/L	1.120	406575	0.326
Sc	45		ug/L		1248349	1248348.885
Ti	47	55.559	ug/L	3.751	23460	0.019
V	51	799.170	ug/L	1.655	3611120	2.892
Cr	52	825.684	ug/L	0.606	2921570	2.339
Cr	53		ug/L		457928	0.338
Mn	55	854.481	ug/L	0.986	5415897	4.338
Fe	57	53370.524	ug/L	0.871	6371915	5.103
Co	59	788.685	ug/L	1.047	3674286	2.943
Ni	60	857.669	ug/L	0.798	840573	0.673
Cu	63		ug/L		1734886	1.390
Cu	65	833.486	ug/L	1.211	925507	0.741
Zn	66	1957.084	ug/L	0.348	1678244	5.947
Zn	67		ug/L		302864	1.054
Zn	68		ug/L		1267309	4.489
Ge	74		ug/L		282118	282118.359
As	75	870.411	ug/L	0.843	697170	2.472
Se	77		ug/L		35732	0.120
Se	82	481.378	ug/L	1.705	43256	0.153
Kr	83		ug/L		165	0.000
Sr	88	937.603	ug/L	1.875	10264911	43.219
Y	89		ug/L		337	0.001
Mo	98	874.448	ug/L	0.703	2391384	10.070
Ag	107	213.228	ug/L	0.562	1032431	4.347
Cd	111	840.414	ug/L	1.078	1185323	4.991
Cd	114		ug/L		2803585	11.805
In	115		ug/L		237489	237489.037
Sn	120	807.409	ug/L	0.668	4759073	20.038
Sb	121	227.859	ug/L	1.008	1127053	4.746
Sb	123		ug/L		902178	3.799
Ba	135		ug/L		1281112	2.276
Ba	137	863.861	ug/L	0.589	2252680	4.003
Ho	165		ug/L		148	0.000
Lu	175		ug/L		562819	562818.917
Tl	205	463.248	ug/L	0.885	9315006	16.541
Pb	208	4536.166	ug/L	0.430	165974202	294.892
Bi	209		ug/L		5137	0.008
Th	232	2469.705	ug/L	0.687	109137405	193.906
U	238	5232.714	ug/L	1.390	251889505	447.521

Sample ID: QC Std 10

Report Date/Time: Thursday, March 04, 2010 03:45:15

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	86.134				
Be	9	91.487				
B	11					
Na	23	89.705				
Mg	24	97.666				
Al	27	92.801				
P	31	91.229				
K	39	102.018				
Ca	43	94.741				
> Sc	45		84.5			
Ti	47					
V	51	79.917				
Cr	52	82.568				
Cr	53					
Mn	55	85.448				
Fe	57	106.741				
Co	59	78.869				
Ni	60	85.767				
Cu	63					
Cu	65	83.349				
Zn	66	78.283				
Zn	67					
Zn	68					
> Ge	74		85.9			
As	75	87.041				
Se	77					
Se	82	96.276				
Kr	83					
Sr	88	93.760				
Y	89					
Mo	98	87.445				
Ag	107	85.291				
Cd	111	84.041				
Cd	114					
> In	115		86.1			
Sn	120	80.741				
Sb	121	91.144				
Sb	123					
Ba	135					
Ba	137	86.386				
Ho	165					
> Lu	175		85.6			
Tl	205	92.650				
Pb	208	90.723				
Bi	209					
Th	232	98.788				
U	238	104.654				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 10	Li	7	7LRS is out of limits (+/- 10%)
QC Std 10	Na	23	23LRS is out of limits (+/- 10%)
QC Std 10	V	51	51LRS is out of limits (+/- 10%)
QC Std 10	Cr	52	52LRS is out of limits (+/- 10%)
QC Std 10	Mn	55	55LRS is out of limits (+/- 10%)
QC Std 10	Co	59	59LRS is out of limits (+/- 10%)
QC Std 10	Ni	60	60LRS is out of limits (+/- 10%)

Sample ID: QC Std 10

Report Date/Time: Thursday, March 04, 2010 03:45:15

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QC Std 10	Cu	65LRS is out of limits (+/- 10%)
QC Std 10	Zn	66LRS is out of limits (+/- 10%)
QC Std 10	As	75LRS is out of limits (+/- 10%)
QC Std 10	Mo	98LRS is out of limits (+/- 10%)
QC Std 10	Ag	107LRS is out of limits (+/- 10%)
QC Std 10	Cd	111LRS is out of limits (+/- 10%)
QC Std 10	Sn	120LRS is out of limits (+/- 10%)
QC Std 10	Ba	137LRS is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 11

Sample Date/Time: Thursday, March 04, 2010 03:48:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 11.243

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	52.421	ug/L	1.922	117183	0.084
Be	9	52.480	ug/L	0.233	23004	0.017
B	11	102.499	ug/L	1.222	47308	0.034
Na	23	4643.330	ug/L	9.444	15779587	11.374
Mg	24	5228.603	ug/L	6.988	11365261	8.194
Al	27	5107.504	ug/L	2.723	14901529	10.742
P	31	5256.252	ug/L	1.273	756103	0.542
K	39	5051.038	ug/L	3.910	17108007	12.128
Ca	43	4990.647	ug/L	1.872	47679	0.034
> Sc	45		ug/L		1387043	1387043.135
Ti	47	52.459	ug/L	0.336	24630	0.018
V	51	51.391	ug/L	2.634	258202	0.186
Cr	52	53.330	ug/L	1.048	211695	0.151
Cr	53		ug/L		94465	0.040
Mn	55	53.220	ug/L	1.661	375432	0.270
Fe	57	5471.901	ug/L	0.335	728000	0.523
Co	59	51.991	ug/L	1.033	269152	0.194
Ni	60	52.910	ug/L	0.834	57686	0.042
Cu	63		ug/L		133701	0.096
Cu	65	52.571	ug/L	1.348	64904	0.047
Zn	66	52.477	ug/L	2.952	48999	0.159
Zn	67		ug/L		18947	0.043
Zn	68		ug/L		35521	0.113
> Ge	74		ug/L		304784	304783.684
As	75	50.912	ug/L	2.315	43953	0.145
Se	77		ug/L		7252	0.018
Se	82	53.346	ug/L	2.115	5188	0.017
Kr	83		ug/L		57	-0.000
Sr	88	54.218	ug/L	0.213	649517	2.499
Y	89		ug/L		73	0.000
Mo	98	50.443	ug/L	1.167	150991	0.581
Ag	107	51.311	ug/L	1.803	271840	1.046
Cd	111	50.994	ug/L	1.324	78709	0.303
Cd	114		ug/L		192262	0.740
> In	115		ug/L		259858	259858.022
Sn	120	52.424	ug/L	1.951	338258	1.301
Sb	121	53.047	ug/L	1.129	287182	1.105
Sb	123		ug/L		226379	0.871
Ba	135		ug/L		83429	0.133
Ba	137	51.711	ug/L	1.150	150818	0.240
Ho	165		ug/L		42	0.000
> Lu	175		ug/L		629383	629383.445
Tl	205	55.553	ug/L	1.381	1254001	1.984
Pb	208	54.623	ug/L	1.132	2235034	3.551
Bi	209		ug/L		838	0.000
Th	232	52.888	ug/L	1.002	2613846	4.152
U	238	54.473	ug/L	2.842	2931828	4.659

Sample ID: QC Std 11

Report Date/Time: Thursday, March 04, 2010 03:51:20

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	104.842				
Be	9	104.960				
B	11	102.499				
Na	23	92.867				
Mg	24	104.572				
Al	27	101.139				
P	31	105.125				
K	39	101.021				
Ca	43	99.813				
> Sc	45		93.8			
Ti	47	104.917				
V	51	102.783				
Cr	52	106.661				
Cr	53					
Mn	55	106.439				
Fe	57	109.438				
Co	59	103.982				
Ni	60	105.820				
Cu	63					
Cu	65	105.142				
Zn	66	104.955				
Zn	67					
Zn	68					
> Ge	74		92.8			
As	75	101.825				
Se	77					
Se	82	106.692				
Kr	83					
Sr	88	108.435				
Y	89					
Mo	98	100.887				
Ag	107	102.621				
Cd	111	101.987				
Cd	114					
> In	115		94.3			
Sn	120	104.848				
Sb	121	106.094				
Sb	123					
Ba	135					
Ba	137	103.423				
Ho	165					
> Lu	175		95.7			
Tl	205	111.107				
Pb	208	109.245				
Bi	209					
Th	232	105.777				
U	238	108.946				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 11	Tl	205	CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 12

Sample Date/Time: Thursday, March 04, 2010 03:54:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 12.244

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.060	ug/L	15.052	209	0.000
Be	9	0.018	ug/L	47.804	16	0.000
B	11	2.477	ug/L	17.163	1609	0.001
Na	23	2.292	ug/L	24.065	15675	0.006
Mg	24	1.579	ug/L	15.801	4667	0.002
Al	27	1.388	ug/L	45.588	7002	0.003
P	31	-1.786	ug/L	56.462	4022	-0.000
K	39	8.752	ug/L	103.808	337971	0.021
Ca	43	0.958	ug/L	132.951	119	0.000
> Sc	45		ug/L		1481483	1481482.710
Ti	47	-0.062	ug/L	34.015	152	-0.000
V	51	-0.251	ug/L	189.338	-1105	-0.001
Cr	52	0.010	ug/L	723.197	2351	0.000
Cr	53		ug/L		41995	-0.000
Mn	55	0.004	ug/L	139.142	775	0.000
Fe	57	1.007	ug/L	47.775	2625	0.000
Co	59	0.021	ug/L	27.217	151	0.000
Ni	60	0.014	ug/L	29.386	92	0.000
Cu	63		ug/L		212	0.000
Cu	65	0.043	ug/L	24.174	108	0.000
Zn	66	0.046	ug/L	55.351	487	0.000
Zn	67		ug/L		6436	0.000
Zn	68		ug/L		1138	0.000
> Ge	74		ug/L		330089	330088.629
As	75	0.073	ug/L	229.215	-39	0.000
Se	77		ug/L		1920	-0.000
Se	82	0.047	ug/L	456.554	15	0.000
Kr	83		ug/L		64	-0.000
Sr	88	0.019	ug/L	16.199	338	0.001
Y	89		ug/L		36	-0.000
Mo	98	0.107	ug/L	11.463	389	0.001
Ag	107	0.011	ug/L	24.655	81	0.000
Cd	111	0.021	ug/L	2.684	46	0.000
Cd	114		ug/L		106	0.000
> In	115		ug/L		275850	275849.731
Sn	120	0.061	ug/L	7.878	592	0.002
Sb	121	0.227	ug/L	12.905	1390	0.005
Sb	123		ug/L		1074	0.004
Ba	135		ug/L		52	0.000
Ba	137	0.015	ug/L	21.870	81	0.000
Ho	165		ug/L		10	-0.000
> Lu	175		ug/L		664878	664878.381
Tl	205	0.712	ug/L	24.020	22600	0.025
Pb	208	0.079	ug/L	19.487	3755	0.005
Bi	209		ug/L		540	-0.000
Th	232	0.065	ug/L	9.356	3770	0.005
U	238	0.095	ug/L	16.813	5616	0.008

Sample ID: QC Std 12

Report Date/Time: Thursday, March 04, 2010 03:57:29

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9998

Sample ID: QC Std 12

Report Date/Time: Thursday, March 04, 2010 03:57:29

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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		100.2				
Ti	47						
V	51						
Cr	52						
Cr	53						
Mn	55						
Fe	57						
Co	59						
Ni	60						
Cu	63						
Cu	65						
Zn	66						
Zn	67						
Zn	68						
> Ge	74		100.5				
As	75						
Se	77						
Se	82						
Kr	83						
Sr	88						
Y	89						
Mo	98						
Ag	107						
Cd	111						
Cd	114						
> In	115		100.1				
Sn	120						
Sb	121						
Sb	123						
Ba	135						
Ba	137						
Ho	165						
> Lu	175		101.1				
Tl	205						
Pb	208						
Bi	209						
Th	232						
U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, March 04, 2010 04:44:01

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 8.252

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	53.623	ug/L	2.487	108235	0.086
Be	9	53.042	ug/L	1.478	20983	0.017
B	11	100.502	ug/L	2.154	41886	0.033
Na	23	4525.038	ug/L	3.160	13890516	11.085
Mg	24	4866.915	ug/L	6.316	9551770	7.627
Al	27	4613.989	ug/L	6.928	12164001	9.704
P	31	5044.127	ug/L	2.923	655117	0.520
K	39	4947.896	ug/L	2.633	15132389	11.881
Ca	43	4808.584	ug/L	0.523	41471	0.033
> Sc	45		ug/L		1252026	1252025.776
Ti	47	48.838	ug/L	1.508	20708	0.016
V	51	49.905	ug/L	2.844	226309	0.181
Cr	52	52.315	ug/L	1.154	187483	0.148
Cr	53		ug/L		83165	0.038
Mn	55	52.771	ug/L	1.283	336048	0.268
Fe	57	5458.824	ug/L	2.113	655379	0.522
Co	59	51.202	ug/L	0.662	239263	0.191
Ni	60	52.403	ug/L	1.483	51566	0.041
Cu	63		ug/L		117436	0.094
Cu	65	50.731	ug/L	1.610	56524	0.045
Zn	66	50.714	ug/L	1.046	42774	0.154
Zn	67		ug/L		15306	0.036
Zn	68		ug/L		30894	0.109
> Ge	74		ug/L		275180	275179.526
As	75	49.991	ug/L	1.448	38971	0.142
Se	77		ug/L		6456	0.017
Se	82	52.892	ug/L	3.319	4643	0.017
Kr	83		ug/L		51	-0.000
Sr	88	51.256	ug/L	0.975	582770	2.363
Y	89		ug/L		106	0.000
Mo	98	47.098	ug/L	2.242	133785	0.542
Ag	107	48.689	ug/L	1.349	244815	0.993
Cd	111	48.893	ug/L	2.731	71615	0.290
Cd	114		ug/L		172971	0.701
> In	115		ug/L		246648	246648.265
Sn	120	49.514	ug/L	1.273	303223	1.229
Sb	121	50.073	ug/L	3.017	257240	1.043
Sb	123		ug/L		202266	0.820
Ba	135		ug/L		74139	0.121
Ba	137	47.455	ug/L	2.389	135240	0.220
Ho	165		ug/L		45	0.000
> Lu	175		ug/L		615011	615010.694
Tl	205	53.556	ug/L	2.186	1181315	1.912
Pb	208	53.632	ug/L	1.296	2144420	3.487
Bi	209		ug/L		804	0.000
Th	232	50.387	ug/L	1.138	2433409	3.956
U	238	52.464	ug/L	0.379	2759716	4.487

Sample ID: QC Std 8

Report Date/Time: Thursday, March 04, 2010 04:46:44

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % DI	Duplicate Rel. % Difference
Li	7	107.246				
Be	9	106.084				
B	11	100.502				
Na	23	90.501				
Mg	24	97.338				
Al	27	91.366				
P	31	100.883				
K	39	98.958				
Ca	43	96.172				
> Sc	45		84.7			
Ti	47	97.677				
V	51	99.811				
Cr	52	104.631				
Cr	53					
Mn	55	105.543				
Fe	57	109.176				
Co	59	102.404				
Ni	60	104.806				
Cu	63					
Cu	65	101.462				
Zn	66	101.428				
Zn	67					
Zn	68					
> Ge	74		83.8			
As	75	99.981				
Se	77					
Se	82	105.784				
Kr	83					
Sr	88	102.512				
Y	89					
Mo	98	94.196				
Ag	107	97.378				
Cd	111	97.786				
Cd	114					
> In	115		89.5			
Sn	120	99.029				
Sb	121	100.145				
Sb	123					
Ba	135					
Ba	137	94.911				
Ho	165					
> Lu	175		93.5			
Tl	205	107.112				
Pb	208	107.264				
Bi	209					
Th	232	100.774				
U	238	104.929				

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: Thursday, March 04, 2010 04:50:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 9.253

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.037	ug/L	19.908	142	0.000
Be	9	0.010	ug/L	12.499	11	0.000
B	11	2.606	ug/L	16.395	1531	0.001
Na	23	1.594	ug/L	98.975	12006	0.004
Mg	24	0.667	ug/L	81.552	2334	0.001
Al	27	0.781	ug/L	113.340	4668	0.002
P	31	-1.001	ug/L	192.676	3791	-0.000
K	39	-1.089	ug/L	258.194	277335	-0.003
Ca	43	-0.030	ug/L	3924.053	100	-0.000
> Sc	45		ug/L		1355493	1355492.861
Ti	47	0.009	ug/L	320.715	171	0.000
V	51	-0.193	ug/L	183.008	-707	-0.001
Cr	52	0.135	ug/L	18.877	2632	0.000
Cr	53		ug/L		37039	-0.001
Mn	55	0.001	ug/L	562.974	691	0.000
Fe	57	0.566	ug/L	34.410	2345	0.000
Co	59	0.008	ug/L	22.311	73	0.000
Ni	60	0.001	ug/L	310.934	71	0.000
Cu	63		ug/L		119	0.000
Cu	65	0.011	ug/L	74.170	60	0.000
Zn	66	-0.047	ug/L	37.371	358	-0.000
Zn	67		ug/L		5222	-0.002
Zn	68		ug/L		855	-0.000
> Ge	74		ug/L		299747	299746.801
As	75	0.014	ug/L	1327.472	-86	0.000
Se	77		ug/L		1701	-0.001
Se	82	0.218	ug/L	111.249	30	0.000
Kr	83		ug/L		58	-0.000
Sr	88	0.004	ug/L	22.216	139	0.000
Y	89		ug/L		44	-0.000
Mo	98	0.030	ug/L	18.913	134	0.000
Ag	107	0.004	ug/L	20.233	39	0.000
Cd	111	0.005	ug/L	169.287	19	0.000
Cd	114		ug/L		45	0.000
> In	115		ug/L		258869	258868.939
Sn	120	0.012	ug/L	15.428	244	0.000
Sb	121	0.062	ug/L	12.664	415	0.001
Sb	123		ug/L		332	0.001
Ba	135		ug/L		23	0.000
Ba	137	0.004	ug/L	90.866	46	0.000
Ho	165		ug/L		12	-0.000
> Lu	175		ug/L		645060	645059.975
Tl	205	0.373	ug/L	23.135	14154	0.013
Pb	208	0.008	ug/L	25.458	645	0.001
Bi	209		ug/L		489	-0.000
Th	232	0.020	ug/L	2.989	1385	0.002
U	238	0.009	ug/L	17.208	685	0.001

Sample ID: QC Std 9

Report Date/Time: Thursday, March 04, 2010 04:52:54

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear 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						
B	11						
Na	23						
Mg	24						
Al	27						
P	31						
K	39						
Ca	43						
> Sc	45		91.7				
Ti	47						
V	51						
Cr	52						
Cr	53						
Mn	55						
Fe	57						
Co	59						
Ni	60						
Cu	63						
Cu	65						
Zn	66						
Zn	67						
Zn	68						
> Ge	74		91.3				
As	75						
Se	77						
Se	82						
Kr	83						
Sr	88						
Y	89						
Mo	98						
Ag	107						
Cd	111						
Cd	114						
> In	115		93.9				
Sn	120						
Sb	121						
Sb	123						
Ba	135						
Ba	137						
Ho	165						
> Lu	175		98.1				
Tl	205						
Pb	208						
Bi	209						
Th	232						
U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Thursday, March 04, 2010 04:52:54

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ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, March 04, 2010 05:20:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 8.258

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	53.085	ug/L	0.381	111468	0.086
Be	9	51.466	ug/L	1.111	21188	0.016
B	11	98.317	ug/L	2.677	42646	0.032
Na	23	4528.538	ug/L	2.946	14455290	11.093
Mg	24	4928.687	ug/L	2.598	10060301	7.724
Al	27	4743.715	ug/L	5.109	12995584	9.977
P	31	5081.487	ug/L	1.917	686569	0.524
K	39	5026.172	ug/L	0.049	15994095	12.069
Ca	43	4789.055	ug/L	1.383	42973	0.033
> Sc	45		ug/L		1302901	1302900.737
Ti	47	48.775	ug/L	2.365	21525	0.016
V	51	49.264	ug/L	1.865	232442	0.178
Cr	52	52.160	ug/L	1.803	194483	0.148
Cr	53		ug/L		85730	0.037
Mn	55	53.094	ug/L	1.971	351725	0.270
Fe	57	5373.921	ug/L	2.060	671412	0.514
Co	59	51.385	ug/L	1.389	249841	0.192
Ni	60	52.550	ug/L	2.402	53798	0.041
Cu	63		ug/L		122806	0.094
Cu	65	51.185	ug/L	0.949	59351	0.046
Zn	66	50.199	ug/L	3.059	44412	0.153
Zn	67		ug/L		15570	0.035
Zn	68		ug/L		32243	0.108
> Ge	74		ug/L		288748	288747.879
As	75	49.859	ug/L	1.421	40777	0.142
Se	77		ug/L		6820	0.017
Se	82	51.212	ug/L	1.447	4718	0.016
Kr	83		ug/L		67	0.000
Sr	88	51.548	ug/L	1.724	597778	2.376
Y	89		ug/L		115	0.000
Mo	98	47.258	ug/L	3.914	136874	0.544
Ag	107	48.873	ug/L	1.751	250649	0.996
Cd	111	49.133	ug/L	3.852	73377	0.292
Cd	114		ug/L		179210	0.713
> In	115		ug/L		251624	251623.679
Sn	120	49.660	ug/L	3.161	310109	1.232
Sb	121	50.318	ug/L	2.140	263664	1.048
Sb	123		ug/L		207526	0.825
Ba	135		ug/L		77274	0.124
Ba	137	48.118	ug/L	1.538	138523	0.223
Ho	165		ug/L		48	0.000
> Lu	175		ug/L		621212	621212.014
Tl	205	53.549	ug/L	0.821	1193201	1.912
Pb	208	53.410	ug/L	1.011	2157060	3.472
Bi	209		ug/L		783	0.000
Th	232	50.287	ug/L	0.368	2453013	3.948
U	238	52.536	ug/L	2.840	2791109	4.493

Sample ID: QC Std 8

Report Date/Time: Thursday, March 04, 2010 05:23:42

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Li	7	106.169				
Be	9	102.932				
B	11	98.317				
Na	23	90.571				
Mg	24	98.574				
Al	27	93.935				
P	31	101.630				
K	39	100.523				
Ca	43	95.781				
> Sc	45		88.1			
Ti	47	97.550				
V	51	98.527				
Cr	52	104.320				
Cr	53					
Mn	55	106.188				
Fe	57	107.478				
Co	59	102.771				
Ni	60	105.100				
Cu	63					
Cu	65	102.370				
Zn	66	100.398				
Zn	67					
Zn	68					
> Ge	74		87.9			
As	75	99.719				
Se	77					
Se	82	102.423				
Kr	83					
Sr	88	103.097				
Y	89					
Mo	98	94.516				
Ag	107	97.747				
Cd	111	98.265				
Cd	114					
> In	115		91.3			
Sn	120	99.319				
Sb	121	100.636				
Sb	123					
Ba	135					
Ba	137	96.237				
Ho	165					
> Lu	175		94.5			
Tl	205	107.098				
Pb	208	106.819				
Bi	209					
Th	232	100.575				
U	238	105.073				

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: Thursday, March 04, 2010 05:23:42

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ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Thursday, March 04, 2010 05:27:08

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 9.259

Concentration Results

Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens.	Mean	Net Intens.	Mean
Li	7	0.032	ug/L		6.551		132		0.000
Be	9	0.012	ug/L		87.450		12		0.000
B	11	2.401	ug/L		20.277		1452		0.001
Na	23	1.263	ug/L		25.830		11004		0.003
Mg	24	0.195	ug/L		556.139		1334		0.000
Al	27	0.187	ug/L		375.147		3000		0.000
P	31	-3.047	ug/L		40.975		3531		-0.000
K	39	-2.124	ug/L		645.664		276364		-0.005
Ca	43	0.875	ug/L		79.922		109		0.000
> Sc	45		ug/L				1366453	1366452.996	
Ti	47	-0.063	ug/L		48.288		140		-0.000
V	51	-0.066	ug/L		636.742		-98		-0.000
Cr	52	0.249	ug/L		22.160		3095		0.001
Cr	53		ug/L				37112		-0.001
Mn	55	0.018	ug/L		25.840		814		0.000
Fe	57	0.710	ug/L		47.222		2383		0.000
Co	59	0.005	ug/L		43.975		56		0.000
Ni	60	0.006	ug/L		126.036		76		0.000
Cu	63		ug/L				109		0.000
Cu	65	0.011	ug/L		27.658		61		0.000
Zn	66	-0.043	ug/L		18.193		362		-0.000
Zn	67		ug/L				5136		-0.002
Zn	68		ug/L				780		-0.001
> Ge	74		ug/L				299952	299952.288	
As	75	0.076	ug/L		82.313		-34		0.000
Se	77		ug/L				1756		-0.000
Se	82	0.215	ug/L		44.206		30		0.000
Kr	83		ug/L				54		-0.000
Sr	88	0.005	ug/L		41.313		149		0.000
Y	89		ug/L				40		-0.000
Mo	98	0.020	ug/L		34.566		107		0.000
Ag	107	0.005	ug/L		33.661		47		0.000
Cd	111	0.004	ug/L		170.896		17		0.000
Cd	114		ug/L				34		0.000
> In	115		ug/L				260367	260366.846	
Sn	120	0.009	ug/L		9.676		224		0.000
Sb	121	0.057	ug/L		3.735		390		0.001
Sb	123		ug/L				312		0.001
Ba	135		ug/L				33		0.000
Ba	137	0.009	ug/L		1.825		61		0.000
Ho	165		ug/L				11		-0.000
> Lu	175		ug/L				634383	634382.728	
Tl	205	0.356	ug/L		20.526		13519		0.013
Pb	208	0.009	ug/L		12.927		682		0.001
Bi	209		ug/L				433		-0.000
Th	232	0.019	ug/L		3.502		1328		0.001
U	238	0.010	ug/L		5.935		710		0.001

Sample ID: QC Std 9

Report Date/Time: Thursday, March 04, 2010 05:29:52

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear 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					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
>	Sc	45		92.4			
|	Ti	47					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74		91.3			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		94.4			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		96.5			
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	Th	232					
|	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Thursday, March 04, 2010 05:29:52

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ICPMS#5 - Summary Report

Sample ID: 1202036451

Sample Date/Time: Thursday, March 04, 2010 05:33:16

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 950326|1|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\1202036451.260

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.180	ug/L	6.093	409	0.000
Be	9	0.014	ug/L	1.739	11	0.000
B	11	1.175	ug/L	7.116	800	0.000
Na	23	8.045	ug/L	33.624	30033	0.020
Mg	24	7.072	ug/L	74.678	14343	0.011
Al	27	54.837	ug/L	4.141	142710	0.115
P	31	9.530	ug/L	28.505	4730	0.001
K	39	19.081	ug/L	20.522	308295	0.046
Ca	43	20.690	ug/L	30.334	263	0.000
> Sc	45		ug/L		1218199	1218199.418
Ti	47	1.700	ug/L	4.570	846	0.001
V	51	-2.715	ug/L	69.732	-11715	-0.010
Cr	52	2.259	ug/L	4.326	9692	0.006
Cr	53		ug/L		147396	0.093
Mn	55	1.841	ug/L	1.463	12002	0.009
Fe	57	67.128	ug/L	2.676	9860	0.006
Co	59	0.020	ug/L	5.530	119	0.000
Ni	60	0.144	ug/L	10.433	200	0.000
Cu	63		ug/L		273	0.000
Cu	65	0.095	ug/L	11.881	145	0.000
Zn	66	1.278	ug/L	3.827	1374	0.004
Zn	67		ug/L		26632	0.082
Zn	68		ug/L		2521	0.006
> Ge	74		ug/L		263211	263211.085
As	75	-0.894	ug/L	97.101	-753	-0.003
Se	77		ug/L		7986	0.024
Se	82	0.503	ug/L	33.734	50	0.000
Kr	83		ug/L		42	-0.000
Sr	88	0.099	ug/L	5.058	1164	0.005
Y	89		ug/L		1027	0.004
Mo	98	0.012	ug/L	23.957	74	0.000
Ag	107	0.002	ug/L	46.652	27	0.000
Cd	111	0.002	ug/L	197.013	13	0.000
Cd	114		ug/L		24	-0.000
> In	115		ug/L		237517	237516.564
Sn	120	0.135	ug/L	6.204	949	0.003
Sb	121	0.038	ug/L	23.217	263	0.001
Sb	123		ug/L		205	0.001
Ba	135		ug/L		667	0.001
Ba	137	0.416	ug/L	3.187	1188	0.002
Ho	165		ug/L		109	0.000
> Lu	175		ug/L		599301	599300.605
Tl	205	-0.004	ug/L	139.211	5058	-0.000
Pb	208	0.072	ug/L	3.277	3086	0.005
Bi	209		ug/L		525	0.000
Th	232	0.067	ug/L	10.612	3511	0.005
U	238	0.011	ug/L	1.928	743	0.001

Sample ID: 1202036451

Report Date/Time: Thursday, March 04, 2010 05:36:00

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		82.4			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		80.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		86.1			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		91.1			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202036451

Report Date/Time: Thursday, March 04, 2010 05:36:00

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ICPMS#5 - Summary Report

Sample ID: 1202036452

Sample Date/Time: Thursday, March 04, 2010 05:39:26

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 950326[1]ba]

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\1202036452.261

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	50.811	ug/L	0.254	100088	0.082
Be	9	51.851	ug/L	2.002	20026	0.016
B	11	97.369	ug/L	3.287	39617	0.032
Na	23	1750.734	ug/L	3.159	5248502	4.289
Mg	24	1900.079	ug/L	7.339	3637744	2.978
Al	27	1853.135	ug/L	6.667	4763466	3.898
P	31	1993.172	ug/L	0.721	254848	0.206
K	39	1919.482	ug/L	10.362	5881816	4.609
Ca	43	1866.537	ug/L	2.175	15769	0.013
> Sc	45		ug/L		1222173	1222173.337
Ti	47	41.509	ug/L	1.437	17205	0.014
V	51	43.833	ug/L	9.946	194042	0.159
Cr	52	49.209	ug/L	0.811	172255	0.139
Cr	53		ug/L		132536	0.080
Mn	55	51.444	ug/L	1.295	319766	0.261
Fe	57	2192.050	ug/L	2.136	258194	0.210
Co	59	48.494	ug/L	1.489	221220	0.181
Ni	60	48.799	ug/L	2.512	46875	0.038
Cu	63		ug/L		108231	0.088
Cu	65	47.870	ug/L	1.044	52082	0.043
Zn	66	48.474	ug/L	1.838	39575	0.147
Zn	67		ug/L		25368	0.076
Zn	68		ug/L		29566	0.108
> Ge	74		ug/L		266233	266232.660
As	75	47.219	ug/L	1.195	35608	0.134
Se	77		ug/L		9498	0.029
Se	82	51.777	ug/L	1.728	4398	0.016
Kr	83		ug/L		55	0.000
Sr	88	47.094	ug/L	1.623	524799	2.171
Y	89		ug/L		1042	0.004
Mo	98	43.257	ug/L	0.381	120446	0.498
Ag	107	46.079	ug/L	0.851	227108	0.939
Cd	111	46.689	ug/L	1.303	67029	0.277
Cd	114		ug/L		162183	0.671
> In	115		ug/L		241711	241710.978
Sn	120	47.289	ug/L	1.394	283856	1.174
Sb	121	47.876	ug/L	0.856	241085	0.997
Sb	123		ug/L		191053	0.790
Ba	135		ug/L		67112	0.110
Ba	137	42.522	ug/L	1.295	119789	0.197
Ho	165		ug/L		148	0.000
> Lu	175		ug/L		607854	607853.683
Tl	205	49.603	ug/L	2.266	1081885	1.771
Pb	208	50.281	ug/L	1.314	1987147	3.269
Bi	209		ug/L		1580168	2.599
Th	232	46.075	ug/L	1.376	2199301	3.617
U	238	48.406	ug/L	0.891	2516553	4.140

Sample ID: 1202036452

Report Date/Time: Thursday, March 04, 2010 05:42:10

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		82.7			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		81.1			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		87.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		92.4			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202036452

Report Date/Time: Thursday, March 04, 2010 05:42:10

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ICPMS#5 - Summary Report

Sample ID: 246323001

Sample Date/Time: Thursday, March 04, 2010 05:45:36

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950326|1|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\246323001.262

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.413	ug/L	6.612	807	0.001
Be	9	0.019	ug/L	57.377	12	0.000
B	11	28.268	ug/L	2.253	10915	0.009
Na	23	131.400	ug/L	11.324	371826	0.322
Mg	24	17.556	ug/L	8.338	32036	0.028
Al	27	69.122	ug/L	2.405	167308	0.145
P	31	10.408	ug/L	11.125	4514	0.001
K	39	147.776	ug/L	9.896	639028	0.355
Ca	43	41.956	ug/L	8.400	412	0.000
> Sc	45		ug/L		1136552	1136552.348
Ti	47	2.201	ug/L	5.550	981	0.001
V	51	-2.307	ug/L	77.117	-9202	-0.008
Cr	52	2.724	ug/L	11.913	10532	0.008
Cr	53		ug/L		141481	0.096
Mn	55	2.313	ug/L	2.358	13918	0.012
Fe	57	76.603	ug/L	4.032	10229	0.007
Co	59	0.025	ug/L	5.740	130	0.000
Ni	60	0.095	ug/L	13.228	143	0.000
Cu	63		ug/L		2831	0.002
Cu	65	1.340	ug/L	2.916	1394	0.001
Zn	66	1.267	ug/L	4.478	1265	0.004
Zn	67		ug/L		26011	0.087
Zn	68		ug/L		2429	0.007
> Ge	74		ug/L		244046	244046.296
As	75	-1.227	ug/L	10.110	-932	-0.003
Se	77		ug/L		7610	0.025
Se	82	0.560	ug/L	21.833	51	0.000
Kr	83		ug/L		39	-0.000
Sr	88	0.211	ug/L	5.103	2237	0.010
Y	89		ug/L		1157	0.005
Mo	98	0.030	ug/L	42.567	116	0.000
Ag	107	0.007	ug/L	30.105	47	0.000
Cd	111	0.011	ug/L	49.323	24	0.000
Cd	114		ug/L		39	0.000
> In	115		ug/L		222175	222174.928
Sn	120	0.146	ug/L	11.510	948	0.004
Sb	121	0.029	ug/L	15.838	202	0.001
Sb	123		ug/L		169	0.001
Ba	135		ug/L		1017	0.002
Ba	137	0.707	ug/L	3.957	1906	0.003
Ho	165		ug/L		142	0.000
> Lu	175		ug/L		573024	573024.227
Tl	205	0.422	ug/L	28.104	13554	0.015
Pb	208	0.198	ug/L	1.845	7642	0.013
Bi	209		ug/L		410	-0.000
Th	232	0.096	ug/L	23.097	4654	0.008
U	238	0.043	ug/L	9.599	2261	0.004

Sample ID: 246323001

Report Date/Time: Thursday, March 04, 2010 05:48:20

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		76.9			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		74.3			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		80.6			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		87.1			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036453
 Sample Date/Time: Thursday, March 04, 2010 05:57:58
 Sample Type:
 Sample Description: LANL 6020 DUP
 Number of Replicates: 3
 Batch ID: 950326|1|baj
 Method File: c:\elandata\Method\6020 2.mth
 Dataset File: C:\elandata\Dataset\100303\1202036453.264

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.382	ug/L	1.928	670	0.001
Be	9	0.021	ug/L	29.237	12	0.000
B	11	27.388	ug/L	0.555	9448	0.009
Na	23	153.388	ug/L	6.366	386160	0.376
Mg	24	14.880	ug/L	16.762	24354	0.023
Al	27	58.602	ug/L	13.808	126901	0.123
P	31	13.537	ug/L	24.069	4358	0.001
K	39	163.762	ug/L	11.406	609450	0.393
Ca	43	51.906	ug/L	15.301	437	0.000
> Sc	45		ug/L		1014668	1014668.091
Ti	47	2.326	ug/L	2.878	918	0.001
V	51	-5.536	ug/L	11.942	-20142	-0.020
Cr	52	3.249	ug/L	3.368	10921	0.009
Cr	53		ug/L		133425	0.103
Mn	55	3.057	ug/L	2.852	16255	0.016
Fe	57	85.335	ug/L	2.586	9978	0.008
Co	59	0.025	ug/L	5.315	119	0.000
Ni	60	0.121	ug/L	2.696	148	0.000
Cu	63		ug/L		2830	0.003
Cu	65	1.441	ug/L	4.232	1335	0.001
Zn	66	1.732	ug/L	7.668	1435	0.005
Zn	67		ug/L		22132	0.083
Zn	68		ug/L		2340	0.007
> Ge	74		ug/L		217481	217480.572
As	75	-1.134	ug/L	38.069	-771	-0.003
Se	77		ug/L		7586	0.029
Se	82	0.462	ug/L	39.641	39	0.000
Kr	83		ug/L		33	-0.000
Sr	88	0.206	ug/L	3.023	2010	0.009
Y	89		ug/L		1087	0.005
Mo	98	0.014	ug/L	26.437	69	0.000
Ag	107	0.003	ug/L	22.621	27	0.000
Cd	111	0.012	ug/L	39.610	24	0.000
Cd	114		ug/L		27	0.000
> In	115		ug/L		204258	204257.845
Sn	120	0.125	ug/L	3.163	764	0.003
Sb	121	0.008	ug/L	24.804	96	0.000
Sb	123		ug/L		85	0.000
Ba	135		ug/L		819	0.001
Ba	137	0.588	ug/L	1.681	1523	0.003
Ho	165		ug/L		139	0.000
> Lu	175		ug/L		548375	548375.251
Tl	205	-0.014	ug/L	29.689	4440	-0.000
Pb	208	0.201	ug/L	1.608	7440	0.013
Bi	209		ug/L		265	-0.000
Th	232	0.049	ug/L	5.656	2438	0.004
U	238	0.044	ug/L	1.133	2230	0.004

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear 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					
|	B	11					
|	Na	23					
|	Mg	24					
|	Al	27					
|	P	31					
|	K	39					
|	Ca	43					
>	Sc	45		68.6			
|	Ti	47					
|	V	51					
|	Cr	52					
|	Cr	53					
|	Mn	55					
|	Fe	57					
|	Co	59					
|	Ni	60					
|	Cu	63					
|	Cu	65					
|	Zn	66					
|	Zn	67					
|	Zn	68					
>	Ge	74		66.2			
|	As	75					
|	Se	77					
|	Se	82					
|	Kr	83					
|	Sr	88					
|	Y	89					
|	Mo	98					
|	Ag	107					
|	Cd	111					
|	Cd	114					
>	In	115		74.1			
|	Sn	120					
|	Sb	121					
|	Sb	123					
|	Ba	135					
|	Ba	137					
|	Ho	165					
>	Lu	175		83.4			
|	Tl	205					
|	Pb	208					
|	Bi	209					
|	Th	232					
|	U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202036453

Report Date/Time: Thursday, March 04, 2010 06:00:43

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ICPMS#5 - Summary Report

Sample ID: 1202036454

Sample Date/Time: Thursday, March 04, 2010 06:04:10

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 950326[1]ba]

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\1202036454.265

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	56.347	ug/L	1.101	90386	0.091
Be	9	55.693	ug/L	1.746	17517	0.018
B	11	128.439	ug/L	1.056	42472	0.042
Na	23	1865.031	ug/L	5.531	4552272	4.569
Mg	24	1866.072	ug/L	6.180	2911272	2.924
Al	27	1800.044	ug/L	1.543	3770031	3.786
P	31	1946.236	ug/L	0.710	202718	0.201
K	39	2073.377	ug/L	2.320	5161226	4.978
Ca	43	1909.362	ug/L	1.485	13136	0.013
> Sc	45		ug/L		995313	995312.964
Ti	47	41.967	ug/L	3.866	14163	0.014
V	51	45.495	ug/L	4.131	164039	0.165
Cr	52	51.718	ug/L	0.557	147367	0.147
Cr	53		ug/L		142503	0.115
Mn	55	54.381	ug/L	1.574	275275	0.276
Fe	57	2260.481	ug/L	0.794	216783	0.216
Co	59	49.427	ug/L	0.903	183620	0.184
Ni	60	49.738	ug/L	2.190	38917	0.039
Cu	63		ug/L		90577	0.091
Cu	65	49.174	ug/L	1.130	43566	0.044
Zn	66	49.402	ug/L	2.086	32954	0.150
Zn	67		ug/L		27371	0.107
Zn	68		ug/L		24708	0.110
> Ge	74		ug/L		217594	217593.872
As	75	71.868	ug/L	0.809	44334	0.204
Se	77		ug/L		8051	0.031
Se	82	20.824	ug/L	1.970	1450	0.007
Kr	83		ug/L		41	-0.000
Sr	88	47.453	ug/L	0.495	444452	2.187
Y	89		ug/L		1191	0.006
Mo	98	42.861	ug/L	0.996	100306	0.494
Ag	107	46.273	ug/L	1.366	191668	0.943
Cd	111	9.685	ug/L	1.923	11692	0.058
Cd	114		ug/L		27512	0.135
> In	115		ug/L		203153	203153.240
Sn	120	47.599	ug/L	2.444	240078	1.181
Sb	121	184.372	ug/L	0.282	780186	3.840
Sb	123		ug/L		616191	3.033
Ba	135		ug/L		58170	0.107
Ba	137	41.163	ug/L	3.457	103335	0.191
Ho	165		ug/L		400	0.001
> Lu	175		ug/L		541879	541878.576
Tl	205	93.113	ug/L	2.148	1805734	3.325
Pb	208	42.702	ug/L	2.352	1504046	2.776
Bi	209		ug/L		745	0.001
Th	232	49.412	ug/L	3.504	2101500	3.880
U	238	51.537	ug/L	1.631	2388010	4.408

Sample ID: 1202036454

Report Date/Time: Thursday, March 04, 2010 06:06:55

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		67.3			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		66.2			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		73.7			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		82.4			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202036454

Report Date/Time: Thursday, March 04, 2010 06:06:55

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ICPMS#5 - Summary Report

Sample ID: 1202036455

Sample Date/Time: Thursday, March 04, 2010 06:10:21

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 950326|5|baj

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\1202036455.266

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.086	ug/L	6.654	197	0.000
Be	9	0.012	ug/L	1.703	9	0.000
B	11	8.076	ug/L	5.713	3134	0.003
Na	23	31.729	ug/L	11.316	88274	0.078
Mg	24	1.759	ug/L	18.911	3667	0.003
Al	27	12.816	ug/L	20.245	30700	0.027
P	31	7.523	ug/L	23.821	3924	0.001
K	39	31.206	ug/L	18.745	301146	0.075
Ca	43	10.590	ug/L	9.617	157	0.000
> Sc	45		ug/L		1067364	1067363.592
Ti	47	0.502	ug/L	5.159	312	0.000
V	51	-1.033	ug/L	19.147	-3810	-0.004
Cr	52	1.138	ug/L	4.266	5105	0.003
Cr	53		ug/L		66994	0.034
Mn	55	0.672	ug/L	5.520	4179	0.003
Fe	57	19.446	ug/L	0.629	3773	0.002
Co	59	0.006	ug/L	26.830	49	0.000
Ni	60	0.079	ug/L	3.212	121	0.000
Cu	63		ug/L		704	0.001
Cu	65	0.307	ug/L	11.258	328	0.000
Zn	66	0.630	ug/L	3.673	759	0.002
Zn	67		ug/L		9162	0.020
Zn	68		ug/L		1349	0.003
> Ge	74		ug/L		233343	233342.764
As	75	-0.408	ug/L	52.126	-347	-0.001
Se	77		ug/L		3755	0.010
Se	82	0.274	ug/L	56.157	28	0.000
Kr	83		ug/L		48	0.000
Sr	88	0.045	ug/L	5.959	523	0.002
Y	89		ug/L		277	0.001
Mo	98	0.023	ug/L	16.699	94	0.000
Ag	107	0.002	ug/L	22.946	25	0.000
Cd	111	0.001	ug/L	607.559	11	0.000
Cd	114		ug/L		22	-0.000
> In	115		ug/L		216089	216089.161
Sn	120	0.042	ug/L	7.323	363	0.001
Sb	121	0.043	ug/L	11.607	260	0.001
Sb	123		ug/L		202	0.001
Ba	135		ug/L		202	0.000
Ba	137	0.129	ug/L	10.289	371	0.001
Ho	165		ug/L		49	0.000
> Lu	175		ug/L		571188	571187.929
Tl	205	1.395	ug/L	18.142	33435	0.050
Pb	208	0.042	ug/L	0.546	1851	0.003
Bi	209		ug/L		272	-0.000
Th	232	0.032	ug/L	17.038	1778	0.003
U	238	0.036	ug/L	0.842	1952	0.003

Sample ID: 1202036455

Report Date/Time: Thursday, March 04, 2010 06:13:05

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear 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					
B	11					
Na	23					
Mg	24					
Al	27					
P	31					
K	39					
Ca	43					
> Sc	45		72.2			
Ti	47					
V	51					
Cr	52					
Cr	53					
Mn	55					
Fe	57					
Co	59					
Ni	60					
Cu	63					
Cu	65					
Zn	66					
Zn	67					
Zn	68					
> Ge	74		71.0			
As	75					
Se	77					
Se	82					
Kr	83					
Sr	88					
Y	89					
Mo	98					
Ag	107					
Cd	111					
Cd	114					
> In	115		78.4			
Sn	120					
Sb	121					
Sb	123					
Ba	135					
Ba	137					
Ho	165					
> Lu	175		86.9			
Tl	205					
Pb	208					
Bi	209					
Th	232					
U	238					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Thursday, March 04, 2010 06:16:29

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 8.267

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	54.840	ug/L	1.484	99857	0.088
Be	9	54.099	ug/L	1.807	19311	0.017
B	11	100.321	ug/L	1.115	37727	0.033
Na	23	4418.542	ug/L	6.322	12227841	10.824
Mg	24	4809.511	ug/L	2.364	8513183	7.537
Al	27	4573.618	ug/L	1.573	10869186	9.619
P	31	4931.047	ug/L	0.598	577939	0.509
K	39	5182.749	ug/L	4.470	14285696	12.445
Ca	43	4758.505	ug/L	1.980	37029	0.033
> Sc	45		ug/L		1129804	1129804.172
Ti	47	48.943	ug/L	2.092	18723	0.016
V	51	49.562	ug/L	1.014	202822	0.179
Cr	52	52.131	ug/L	0.660	168589	0.148
Cr	53		ug/L		81363	0.044
Mn	55	52.613	ug/L	0.490	302319	0.267
Fe	57	5427.874	ug/L	1.522	588080	0.519
Co	59	50.760	ug/L	2.224	213971	0.189
Ni	60	51.329	ug/L	0.974	45579	0.040
Cu	63		ug/L		103848	0.092
Cu	65	50.214	ug/L	2.499	50485	0.045
Zn	66	50.406	ug/L	0.815	38202	0.153
Zn	67		ug/L		14229	0.038
Zn	68		ug/L		27701	0.109
> Ge	74		ug/L		247227	247227.191
As	75	49.417	ug/L	0.554	34612	0.140
Se	77		ug/L		6416	0.020
Se	82	51.349	ug/L	0.443	4051	0.016
Kr	83		ug/L		59	0.000
Sr	88	49.341	ug/L	0.961	513168	2.274
Y	89		ug/L		88	0.000
Mo	98	45.960	ug/L	2.639	119461	0.529
Ag	107	47.976	ug/L	3.068	220699	0.978
Cd	111	48.410	ug/L	1.779	64880	0.288
Cd	114		ug/L		159217	0.706
> In	115		ug/L		225594	225594.079
Sn	120	49.888	ug/L	0.379	279464	1.238
Sb	121	50.254	ug/L	1.538	236217	1.047
Sb	123		ug/L		185039	0.820
Ba	135		ug/L		68356	0.117
Ba	137	45.500	ug/L	3.023	123232	0.211
Ho	165		ug/L		38	0.000
> Lu	175		ug/L		584501	584500.587
Tl	205	53.999	ug/L	3.214	1131758	1.928
Pb	208	53.774	ug/L	2.297	2043201	3.496
Bi	209		ug/L		672	0.000
Th	232	50.481	ug/L	4.720	2316108	3.963
U	238	52.329	ug/L	3.191	2615365	4.475

Sample ID: QC Std 8

Report Date/Time: Thursday, March 04, 2010 06:19:12

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Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear Thru Zero	0.9998

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Li	7	109.679				
Be	9	108.198				
B	11	100.321				
Na	23	88.371				
Mg	24	96.190				
Al	27	90.567				
P	31	98.621				
K	39	103.655				
Ca	43	95.170				
> Sc	45		76.4			
Ti	47	97.887				
V	51	99.123				
Cr	52	104.261				
Cr	53					
Mn	55	105.226				
Fe	57	108.557				
Co	59	101.520				
Ni	60	102.659				
Cu	63					
Cu	65	100.428				
Zn	66	100.812				
Zn	67					
Zn	68					
> Ge	74		75.3			
As	75	98.834				
Se	77					
Se	82	102.699				
Kr	83					
Sr	88	98.682				
Y	89					
Mo	98	91.921				
Ag	107	95.951				
Cd	111	96.821				
Cd	114					
> In	115		81.8			
Sn	120	99.777				
Sb	121	100.508				
Sb	123					
Ba	135					
Ba	137	91.000				
Ho	165					
> Lu	175		88.9			
Tl	205	107.998				
Pb	208	107.547				
Bi	209					
Th	232	100.962				
U	238	104.659				

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 8	Na	23	CCV is out of limits (+/- 10%)
Sc 45 Int Std for QC Sc		45	
Ge 74 Int Std for QC Ge		74	

QC Action

Sample ID: QC Std 8
 Report Date/Time: Thursday, March 04, 2010 06:19:12
 Page 3

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Thursday, March 04, 2010 06:22:37

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\6020 2.mth

Dataset File: C:\elandata\Dataset\100303\QC Std 9.268

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Li	7	0.014	ug/L	44.137	82	0.000
Be	9	0.008	ug/L	87.012	9	0.000
B	11	2.807	ug/L	10.515	1453	0.001
Na	23	0.549	ug/L	65.106	7669	0.001
Mg	24	0.263	ug/L	228.969	1333	0.000
Al	27	0.450	ug/L	55.325	3334	0.001
P	31	-2.617	ug/L	23.682	3192	-0.000
K	39	-3.693	ug/L	159.129	240681	-0.009
Ca	43	0.488	ug/L	274.554	94	0.000
> Sc	45		ug/L		1214394	1214393.505
Ti	47	-0.022	ug/L	175.184	141	-0.000
V	51	-0.444	ug/L	31.227	-1752	-0.002
Cr	52	0.331	ug/L	15.571	3031	0.001
Cr	53		ug/L		36336	0.002
Mn	55	-0.004	ug/L	47.081	587	-0.000
Fe	57	0.755	ug/L	14.224	2123	0.000
Co	59	0.007	ug/L	23.718	57	0.000
Ni	60	0.006	ug/L	114.095	68	0.000
Cu	63		ug/L		90	-0.000
Cu	65	0.008	ug/L	126.583	51	0.000
Zn	66	0.025	ug/L	85.700	380	0.000
Zn	67		ug/L		4779	-0.001
Zn	68		ug/L		815	-0.000
> Ge	74		ug/L		269325	269324.719
As	75	0.097	ug/L	263.702	-14	0.000
Se	77		ug/L		1840	0.001
Se	82	0.132	ug/L	85.422	20	0.000
Kr	83		ug/L		46	-0.000
Sr	88	0.002	ug/L	70.088	108	0.000
Y	89		ug/L		33	-0.000
Mo	98	0.027	ug/L	23.773	117	0.000
Ag	107	0.003	ug/L	56.932	35	0.000
Cd	111	0.004	ug/L	194.509	15	0.000
Cd	114		ug/L		34	0.000
> In	115		ug/L		238318	238317.984
Sn	120	0.014	ug/L	4.997	237	0.000
Sb	121	0.068	ug/L	8.224	409	0.001
Sb	123		ug/L		335	0.001
Ba	135		ug/L		27	0.000
Ba	137	0.001	ug/L	61.933	36	0.000
Ho	165		ug/L		10	-0.000
> Lu	175		ug/L		603360	603359.955
Tl	205	0.860	ug/L	18.359	23730	0.031
Pb	208	0.005	ug/L	11.417	502	0.000
Bi	209		ug/L		432	-0.000
Th	232	0.021	ug/L	8.448	1374	0.002
U	238	0.006	ug/L	23.304	490	0.001

Sample ID: QC Std 9

Report Date/Time: Thursday, March 04, 2010 06:25:21

Page 1

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Li	7Linear Thru Zero	1.0000
Be	9Linear Thru Zero	1.0000
B	11Linear Thru Zero	1.0000
Na	23Linear Thru Zero	0.9999
Mg	24Linear Thru Zero	1.0000
Al	27Linear Thru Zero	1.0000
P	31Linear Thru Zero	1.0000
K	39Linear Thru Zero	1.0000
Ca	43Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ti	47Linear Thru Zero	1.0000
V	51Linear Thru Zero	1.0000
Cr	52Linear Thru Zero	1.0000
Cr	53Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Fe	57Linear Thru Zero	0.9999
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	
Mo	98Linear Thru Zero	1.0000
Ag	107Linear Thru Zero	1.0000
Cd	111Linear Thru Zero	1.0000
Cd	114Linear Thru Zero	
In	115Linear Thru Zero	
Sn	120Linear Thru Zero	1.0000
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Ba	135Linear Thru Zero	
Ba	137Linear Thru Zero	1.0000
Ho	165Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9998
Pb	208Linear Thru Zero	0.9999
Bi	209Linear Thru Zero	
Th	232Linear Thru Zero	0.9998
U	238Linear 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						
|	B	11						
|	Na	23						
|	Mg	24						
|	Al	27						
|	P	31						
|	K	39						
|	Ca	43						
>	Sc	45		82.2				
|	Ti	47						
|	V	51						
|	Cr	52						
|	Cr	53						
|	Mn	55						
|	Fe	57						
|	Co	59						
|	Ni	60						
|	Cu	63						
|	Cu	65						
|	Zn	66						
|	Zn	67						
|	Zn	68						
>	Ge	74		82.0				
|	As	75						
|	Se	77						
|	Se	82						
|	Kr	83						
|	Sr	88						
|	Y	89						
|	Mo	98						
|	Ag	107						
|	Cd	111						
|	Cd	114						
>	In	115		86.4				
|	Sn	120						
|	Sb	121						
|	Sb	123						
|	Ba	135						
|	Ba	137						
|	Ho	165						
>	Lu	175		91.8				
|	Tl	205						
|	Pb	208						
|	Bi	209						
|	Th	232						
|	U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Thursday, March 04, 2010 12:13:51

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.644

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		4917.0		4917.046		76.152		1.5
Mg	24.0		49556.4		49556.410		421.182		0.8
Co	58.9		95296.0		95295.993		345.969		0.4
Rh	102.9		182253.3		182253.293		1838.164		1.0
In	114.9		271126.6		271126.619		2475.836		0.9
Pb	208.0		255677.7		255677.709		715.154		0.3
[> Ba	137.9		248095.1		248095.056		1759.513		0.7
[Ba++	69.0		3224.4		0.013		0.000		1.4
[> Ce	139.9		304302.3		304302.268		1006.509		0.3
[CeO	155.9		7653.1		0.025		0.000		1.9
Bkgd	220.0		21.3		21.300		2.225		10.4

Current Optimization File Data

Current Value	Description
0.87	Nebulizer Gas Flow
6.00	Lens Voltage
1450.00	ICP RF Power
-1750.00	Analog Stage Voltage
1250.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	13	5.5	5457.7
Co	59	13	6.0	98878.3
In	115	13	6.8	264010.6

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	588	2050	0.665
Be	9.0	9.0	2056	2075	0.621
Mg	24.0	24.0	5695	2080	0.628
Mg	25.0	25.0	5923	2080	0.592
Mg	26.0	26.0	6178	2080	0.633
Co	58.9	58.9	14189	2110	0.620
Rh	102.9	102.9	24872	2160	0.621
In	114.9	114.9	27799	2180	0.636
Ce	139.9	139.9	33870	2200	0.640
Pb	206.0	206.0	49948	2295	0.605
Pb	207.0	207.0	50159	2240	0.631
Pb	208.0	208.0	50451	2265	0.694
U	238.1	238.0	57724	2275	0.708

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Thursday, March 04, 2010 12:31:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\Blank.001

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9		ug/L			15
> Sc	45		ug/L		1773783	
| Mn	55		ug/L		1132	
| Cu	63		ug/L		369	
[Cu	65		ug/L		209	
[Mo	98		ug/L		62	
> In	115		ug/L		353968	
| Sb	121		ug/L		72	
[Sb	123		ug/L		54	
> Lu	175		ug/L		572692	
| Tl	205		ug/L		751	
[U	238		ug/L		89	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Simple Linear	
Sc	45Simple Linear	
Mn	55Simple Linear	
Cu	63Simple Linear	
Cu	65Simple Linear	
Mo	98Simple Linear	
In	115Simple Linear	
Sb	121Simple Linear	
Sb	123Simple Linear	
Lu	175Simple Linear	
Tl	205Simple Linear	
U	238Simple Linear	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9						
> Sc	45						
| Mn	55						
| Cu	63						
[Cu	65						
[Mo	98						
> In	115						
| Sb	121						
[Sb	123						
> Lu	175						
| Tl	205						
[U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: Blank

Report Date/Time: Thursday, March 04, 2010 12:31:57

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Thursday, March 04, 2010 12:33:24

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\Standard 1.002

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	10.000	ug/L	4.103	4747	0.003
|>	Sc	45		ug/L		1798222	1798221.936
|	Mn	55	10.000	ug/L	4.728	113830	0.063
|	Cu	63		ug/L		43407	0.024
|	Cu	65	10.000	ug/L	3.957	20944	0.012
[	Mo	98	10.000	ug/L	0.379	41237	0.115
|>	In	115		ug/L		358861	358860.659
|	Sb	121	10.000	ug/L	0.222	63445	0.177
|	Sb	123		ug/L		49622	0.138
[>	Lu	175		ug/L		570430	570430.162
|	Tl	205	10.000	ug/L	1.470	233823	0.409
|	U	238	10.000	ug/L	1.908	536095	0.940

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9					
|>	Sc	45					
|	Mn	55					
|	Cu	63					
|	Cu	65					
[	Mo	98					
|>	In	115					
|	Sb	121					
|	Sb	123					
[>	Lu	175					
|	Tl	205					
|	U	238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: Standard 1

Report Date/Time: Thursday, March 04, 2010 12:34:14

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Thursday, March 04, 2010 12:35:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\Standard 2.003

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	100.030	ug/L	3.258	46549	0.027
> Sc	45		ug/L		1714247	1714246.990
| Mn	55	99.942	ug/L	3.545	1015747	0.592
| Cu	63		ug/L		401603	0.234
[Cu	65	100.005	ug/L	2.665	198831	0.116
[Mo	98	100.026	ug/L	0.790	399149	1.178
> In	115		ug/L		338838	338838.424
| Sb	121	100.061	ug/L	1.680	637700	1.882
[Sb	123		ug/L		497782	1.469
> Lu	175		ug/L		548814	548814.155
| Tl	205	99.844	ug/L	1.230	1937400	3.529
[U	238	99.847	ug/L	2.385	4467359	8.141

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9						
> Sc	45						
| Mn	55						
| Cu	63						
[Cu	65						
[Mo	98						
> In	115						
| Sb	121						
[Sb	123						
> Lu	175						
| Tl	205						
[U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: Standard 2

Report Date/Time: Thursday, March 04, 2010 12:36:31

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Thursday, March 04, 2010 12:37:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 1.004

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	49.950	ug/L	0.577	24145	0.014
>	Sc	45		ug/L		1778896	1778895.515
|	Mn	55	51.845	ug/L	1.340	547725	0.307
|	Cu	63		ug/L		209810	0.118
|	Cu	65	49.930	ug/L	1.103	103172	0.058
[	Mo	98	48.847	ug/L	0.706	200984	0.575
>	In	115		ug/L		349320	349320.083
|	Sb	121	50.278	ug/L	1.447	330387	0.946
|	Sb	123		ug/L		257824	0.738
>	Lu	175		ug/L		560280	560280.120
|	Tl	205	53.637	ug/L	0.602	1062937	1.896
|	U	238	51.733	ug/L	0.930	2363128	4.218

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	99.900					
>	Sc	45		100.3				
|	Mn	55	103.690					
|	Cu	63						
|	Cu	65	99.860					
[	Mo	98	97.693					
>	In	115		98.7				
|	Sb	121	100.556					
|	Sb	123						
>	Lu	175		97.8				
|	Tl	205	107.274					
|	U	238	103.466					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 1

Report Date/Time: Thursday, March 04, 2010 12:38:49

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Thursday, March 04, 2010 12:40:19

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 2.005

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.007	ug/L	68.727	18	0.000
Sc	45		ug/L		1798915	1798914.607
Mn	55	0.006	ug/L	137.785	1208	0.000
Cu	63		ug/L		399	0.000
Cu	65	0.005	ug/L	189.053	223	0.000
Mo	98	0.065	ug/L	9.150	335	0.001
In	115		ug/L		354777	354777.335
Sb	121	0.811	ug/L	5.522	5484	0.015
Sb	123		ug/L		4327	0.012
Lu	175		ug/L		561317	561316.865
Tl	205	0.214	ug/L	12.771	4978	0.008
U	238	0.014	ug/L	2.864	708	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9						
Sc	45		101.4				
Mn	55						
Cu	63						
Cu	65						
Mo	98						
In	115		100.2				
Sb	121						
Sb	123						
Lu	175		98.0				
Tl	205						
U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 2

Report Date/Time: Thursday, March 04, 2010 12:41:11

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Thursday, March 04, 2010 12:42:40

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 3.006

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.527	ug/L	3.609	277	0.000
> Sc	45		ug/L		1828017	1828016.662
| Mn	55	5.861	ug/L	2.079	64657	0.035
| Cu	63		ug/L		5408	0.003
[Cu	65	1.133	ug/L	2.947	2616	0.001
[Mo	98	0.569	ug/L	2.068	2405	0.007
> In	115		ug/L		349582	349581.728
| Sb	121	3.259	ug/L	1.979	21495	0.061
[Sb	123		ug/L		16580	0.047
> Lu	175		ug/L		554195	554195.304
| Tl	205	1.363	ug/L	2.345	27420	0.048
[U	238	0.304	ug/L	1.276	13842	0.025

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9	105.495					
> Sc	45		103.1				
| Mn	55	117.213					
| Cu	63						
[Cu	65	113.272					
[Mo	98	113.859					
> In	115		98.8				
| Sb	121	108.618					
[Sb	123						
> Lu	175		96.8				
| Tl	205	136.287					
[U	238	152.225					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 3

Report Date/Time: Thursday, March 04, 2010 12:43:30

Page 1

QC Std 3	TI	205CRDL is out of limits
QC Std 3	U	238CRDL is out of limits

QC Action

QC Action Line: Continue

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Thursday, March 04, 2010 12:44:58

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 4.007

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.096	ug/L	8.848	55	0.000
Sc	45		ug/L		1607206	1607206.058
Mn	55	5.973	ug/L	1.689	57904	0.035
Cu	63		ug/L		9367	0.006
Cu	65	3.209	ug/L	2.415	6167	0.004
Mo	98	1773.869	ug/L	3.131	6675945	20.888
In	115		ug/L		319757	319757.178
Sb	121	0.428	ug/L	5.475	2642	0.008
Sb	123		ug/L		2013	0.006
Lu	175		ug/L		502399	502399.344
Tl	205	0.053	ug/L	5.536	1605	0.002
U	238	0.004	ug/L	10.908	226	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
Be	9						
Sc	45		90.6				
Mn	55	102.984					
Cu	63						
Cu	65	96.090					
Mo	98	88.693					
In	115		90.3				
Sb	121						
Sb	123						
Lu	175		87.7				
Tl	205						
U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 4

Report Date/Time: Thursday, March 04, 2010 12:45:49

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Thursday, March 04, 2010 12:47:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 5.008

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	19.042	ug/L	4.722	8104	0.005
Sc	45		ug/L		1566586	1566586.438
Mn	55	27.591	ug/L	4.615	256875	0.164
Cu	63		ug/L		79779	0.051
Cu	65	22.118	ug/L	4.596	40306	0.026
Mo	98	1777.475	ug/L	1.713	6680076	20.930
In	115		ug/L		319171	319170.757
Sb	121	21.143	ug/L	0.325	126983	0.398
Sb	123		ug/L		98099	0.307
Lu	175		ug/L		499457	499456.631
Tl	205	22.322	ug/L	0.498	394725	0.789
U	238	23.830	ug/L	0.258	970469	1.943

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9	95.211					
Sc	45		88.3				
Mn	55	106.941					
Cu	63						
Cu	65	94.765					
Mo	98	88.874					
In	115		90.2				
Sb	121	105.714					
Sb	123						
Lu	175		87.2				
Tl	205	111.612					
U	238	119.152					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 5

Report Date/Time: Thursday, March 04, 2010 12:48:09

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, March 04, 2010 12:49:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 6.009

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	51.817	ug/L	2.736	23289	0.014
>	Sc	45		ug/L		1654675	1654674.957
|	Mn	55	54.399	ug/L	2.496	534327	0.322
|	Cu	63		ug/L		201567	0.122
|	Cu	65	51.619	ug/L	1.613	99186	0.060
[	Mo	98	49.307	ug/L	0.536	199339	0.581
>	In	115		ug/L		343226	343226.386
|	Sb	121	49.253	ug/L	0.899	318008	0.926
|	Sb	123		ug/L		249125	0.726
>	Lu	175		ug/L		561191	561191.315
|	Tl	205	52.911	ug/L	0.568	1050254	1.870
|	U	238	51.307	ug/L	1.091	2347503	4.183

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	103.635					
>	Sc	45		93.3				
|	Mn	55	108.798					
|	Cu	63						
|	Cu	65	103.238					
[	Mo	98	98.615					
>	In	115		97.0				
|	Sb	121	98.507					
|	Sb	123						
>	Lu	175		98.0				
|	Tl	205	105.821					
|	U	238	102.615					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 6

Report Date/Time: Thursday, March 04, 2010 12:50:29

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, March 04, 2010 12:51:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 7.010

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.008	ug/L	71.641	18	0.000
> Sc	45		ug/L		1732565	1732564.662
Mn	55	0.007	ug/L	28.253	1177	0.000
Cu	63		ug/L		379	0.000
Cu	65	0.017	ug/L	36.998	237	0.000
Mo	98	0.158	ug/L	7.103	699	0.002
> In	115		ug/L		344205	344205.427
Sb	121	0.601	ug/L	5.274	3960	0.011
Sb	123		ug/L		3085	0.009
> Lu	175		ug/L		557954	557953.726
Tl	205	0.209	ug/L	14.821	4850	0.007
U	238	0.013	ug/L	10.350	659	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9						
> Sc	45		97.7				
Mn	55						
Cu	63						
Cu	65						
Mo	98						
> In	115		97.2				
Sb	121						
Sb	123						
> Lu	175		97.4				
Tl	205						
U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 7

Report Date/Time: Thursday, March 04, 2010 12:52:51

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036451

Sample Date/Time: Thursday, March 04, 2010 12:54:21

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 950326|1|baj

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\1202036451.011

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.006	ug/L	75.727	18	0.000
> Sc	45		ug/L		1804072	1804072.195
| Mn	55	1.881	ug/L	2.884	21257	0.011
| Cu	63		ug/L		645	0.000
| Cu	65	0.070	ug/L	15.857	358	0.000
| Mo	98	0.077	ug/L	14.014	360	0.001
> In	115		ug/L		334357	334356.902
| Sb	121	0.415	ug/L	8.577	2675	0.008
| Sb	123		ug/L		2141	0.006
> Lu	175		ug/L		542341	542340.916
| Ti	205	0.059	ug/L	3.545	1841	0.002
| U	238	0.015	ug/L	3.873	728	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Mn	55	Linear Thru Zero	1.0000
Cu	63	Linear Thru Zero	
Cu	65	Linear Thru Zero	1.0000
Mo	98	Linear Thru Zero	1.0000
In	115	Linear Thru Zero	
Sb	121	Linear Thru Zero	1.0000
Sb	123	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Ti	205	Linear Thru Zero	0.9999
U	238	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9						
> Sc	45		101.7				
| Mn	55						
| Cu	63						
| Cu	65						
| Mo	98						
> In	115		94.5				
| Sb	121						
| Sb	123						
> Lu	175		94.7				
| Ti	205						
| U	238						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

Sample ID: 1202036451

Report Date/Time: Thursday, March 04, 2010 12:55:14

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036452

Sample Date/Time: Thursday, March 04, 2010 12:56:44

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 950326|1|baj

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\1202036452.012

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	50.336	ug/L	2.935	24409	0.014
> Sc	45		ug/L		1785577	1785577.404
| Mn	55	53.343	ug/L	3.411	565225	0.316
| Cu	63		ug/L		211800	0.118
| Cu	65	49.762	ug/L	3.345	103139	0.058
| Mo	98	49.131	ug/L	1.430	195481	0.579
> In	115		ug/L		337816	337815.973
| Sb	121	53.422	ug/L	1.074	339462	1.005
| Sb	123		ug/L		265749	0.787
> Lu	175		ug/L		548176	548175.865
| Tl	205	49.292	ug/L	2.243	955614	1.742
| U	238	49.619	ug/L	0.971	2217574	4.045

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9						
> Sc	45		100.7				
| Mn	55						
| Cu	63						
| Cu	65						
| Mo	98						
> In	115		95.4				
| Sb	121						
| Sb	123						
> Lu	175		95.7				
| Tl	205						
| U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 1202036452

Report Date/Time: Thursday, March 04, 2010 12:57:36

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 246323001

Sample Date/Time: Thursday, March 04, 2010 12:59:07

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 950326|1|baj

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\246323001.013

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.011	ug/L	21.897	20	0.000
> Sc	45		ug/L		1772864	1772863.946
| Mn	55	2.401	ug/L	1.436	26356	0.014
| Cu	63		ug/L		6184	0.003
[Cu	65	1.401	ug/L	3.948	3086	0.002
[Mo	98	0.071	ug/L	3.723	329	0.001
> In	115		ug/L		326688	326687.614
| Sb	121	0.151	ug/L	5.051	997	0.003
[Sb	123		ug/L		759	0.002
> Lu	175		ug/L		529631	529630.931
| Tl	205	0.811	ug/L	13.243	15889	0.029
[U	238	0.052	ug/L	2.279	2316	0.004

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9						
> Sc	45		99.9				
| Mn	55						
| Cu	63						
[Cu	65						
[Mo	98						
> In	115		92.3				
| Sb	121						
[Sb	123						
> Lu	175		92.5				
| Tl	205						
[U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 246323001

Report Date/Time: Thursday, March 04, 2010 13:00:00

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036453

Sample Date/Time: Thursday, March 04, 2010 13:03:55

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 950326|1|baj

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\1202036453.015

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.006	ug/L	267.169	18	0.000
> Sc	45		ug/L		1833574	1833574.365
Mn	55	3.088	ug/L	0.527	34724	0.018
Cu	63		ug/L		7036	0.004
Cu	65	1.500	ug/L	0.718	3403	0.002
Mo	98	0.027	ug/L	15.539	165	0.000
> In	115		ug/L		335594	335594.487
Sb	121	0.054	ug/L	7.376	409	0.001
Sb	123		ug/L		326	0.001
> Lu	175		ug/L		542201	542201.265
Tl	205	0.146	ug/L	5.115	3512	0.005
U	238	0.044	ug/L	0.329	2027	0.004

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9						
> Sc	45		103.4				
Mn	55						
Cu	63						
Cu	65						
Mo	98						
> In	115		94.8				
Sb	121						
Sb	123						
> Lu	175		94.7				
Tl	205						
U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 1202036453

Report Date/Time: Thursday, March 04, 2010 13:04:49

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202036454

Sample Date/Time: Thursday, March 04, 2010 13:06:20

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 950326|1|baj

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\1202036454.016

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	49.619	ug/L	1.749	24345	0.013
> Sc	45		ug/L		1805790	1805789.625
Mn	55	53.305	ug/L	1.478	571668	0.316
Cu	63		ug/L		219161	0.121
Cu	65	49.937	ug/L	1.263	104744	0.058
Mo	98	49.247	ug/L	0.680	191560	0.580
> In	115		ug/L		330256	330255.986
Sb	121	196.161	ug/L	1.394	1218370	3.689
Sb	123		ug/L		974855	2.952
> Lu	175		ug/L		535491	535490.585
Tl	205	89.424	ug/L	1.259	1693197	3.161
U	238	50.049	ug/L	0.806	2185138	4.081

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9						
> Sc	45		101.8				
Mn	55						
Cu	63						
Cu	65						
Mo	98						
> In	115		93.3				
Sb	121						
Sb	123						
> Lu	175		93.5				
Tl	205						
U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 1202036454

Report Date/Time: Thursday, March 04, 2010 13:07:14

Page 1

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202036454

Report Date/Time: Thursday, March 04, 2010 13:07:14

Page 2

ICPMS#5 - Summary Report

Sample ID: 1202036455

Sample Date/Time: Thursday, March 04, 2010 13:08:44

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 950326[5]baj

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\1202036455.017

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.005	ug/L	150.886	17	0.000
> Sc	45		ug/L		1736422	1736422.142
| Mn	55	0.708	ug/L	4.684	8391	0.004
| Cu	63		ug/L		1595	0.001
[Cu	65	0.308	ug/L	4.668	824	0.000
[Mo	98	0.048	ug/L	12.127	250	0.001
> In	115		ug/L		340031	340030.936
| Sb	121	0.115	ug/L	5.443	802	0.002
[Sb	123		ug/L		615	0.002
> Lu	175		ug/L		552859	552858.981
| Tl	205	1.826	ug/L	13.276	36403	0.065
[U	238	0.046	ug/L	2.645	2157	0.004

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9						
> Sc	45		97.9				
| Mn	55						
| Cu	63						
[Cu	65						
[Mo	98						
> In	115		96.1				
| Sb	121						
[Sb	123						
> Lu	175		96.5				
| Tl	205						
[U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: 1202036455

Report Date/Time: Thursday, March 04, 2010 13:09:36

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Thursday, March 04, 2010 13:11:05

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 6.018

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	50.126	ug/L	2.622	22937	0.014
Sc	45		ug/L		1684786	1684785.954
Mn	55	54.194	ug/L	3.957	541813	0.321
Cu	63		ug/L		207133	0.123
Cu	65	51.723	ug/L	3.205	101160	0.060
Mo	98	48.400	ug/L	1.290	197894	0.570
In	115		ug/L		347151	347150.978
Sb	121	48.271	ug/L	3.130	315186	0.908
Sb	123		ug/L		246485	0.710
Lu	175		ug/L		568186	568185.615
Tl	205	53.623	ug/L	1.092	1077517	1.895
U	238	51.775	ug/L	0.675	2398384	4.221

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9	100.251					
Sc	45		95.0				
Mn	55	108.387					
Cu	63						
Cu	65	103.445					
Mo	98	96.799					
In	115		98.1				
Sb	121	96.542					
Sb	123						
Lu	175		99.2				
Tl	205	107.247					
U	238	103.551					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 6

Report Date/Time: Thursday, March 04, 2010 13:11:57

Page 1

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Thursday, March 04, 2010 13:13:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\100304.mth

Dataset File: C:\elandata\Dataset\100304\QC Std 7.019

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.007	ug/L	176.487	17	0.000
Sc	45		ug/L		1706274	1706274.353
Mn	55	0.022	ug/L	18.042	1314	0.000
Cu	63		ug/L		410	0.000
Cu	65	0.011	ug/L	144.817	222	0.000
Mo	98	0.061	ug/L	5.414	306	0.001
In	115		ug/L		343896	343895.519
Sb	121	0.638	ug/L	6.575	4197	0.012
Sb	123		ug/L		3209	0.009
Lu	175		ug/L		578004	578003.606
Tl	205	0.722	ug/L	7.997	15496	0.026
U	238	0.014	ug/L	10.191	747	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Mn	55Linear Thru Zero	1.0000
Cu	63Linear Thru Zero	
Cu	65Linear Thru Zero	1.0000
Mo	98Linear Thru Zero	1.0000
In	115Linear Thru Zero	
Sb	121Linear Thru Zero	1.0000
Sb	123Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999
U	238Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9						
Sc	45		96.2				
Mn	55						
Cu	63						
Cu	65						
Mo	98						
In	115		97.2				
Sb	121						
Sb	123						
Lu	175		100.9				
Tl	205						
U	238						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

Sample ID: QC Std 7

Report Date/Time: Thursday, March 04, 2010 13:14:19

Page 1

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: S10Sample Information File: C:\data-AA\Administrator\Sample Information\021710W1.SIF
Batch ID:
Results Data Set: 021710W2
Results Library: C:\data-AA\Administrator\Results\Results.mdb=====
Method Loaded

Method Name: WATER

Method Last Saved: 2/8/2010 13:04:57

Method Description: 7470A, 245.2, ILM04 ANALYST JXL

Sequence No.: 1
Sample ID: Calib Blank
Analyst:Autosampler Location: 1
Date Collected: 2/17/2010 09:35:12
Data Type: Original-----
Replicate Data: Calib Blank

Repl #	SampleConc ug/L	StdConc ug/L	BlncCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0006	0.0053	0.0006	09:36:12	Yes
2		[0.00]	0.0005	0.0028	0.0005	09:36:47	Yes
Mean:		[0.00]	0.0006				
SD:		0.00	0.0001				
%RSD:		0.00	17.93				

Auto-zero performed.

Sequence No.: 2
Sample ID: S0.2
Analyst:Autosampler Location: 2
Date Collected: 2/17/2010 09:37:06
Data Type: Original-----
Replicate Data: S0.2

Repl #	SampleConc ug/L	StdConc ug/L	BlncCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0017	0.0110	0.0023	09:38:07	Yes
2		[0.2]	0.0018	0.0104	0.0023	09:38:42	Yes
Mean:		[0.2]	0.0018				
SD:		0.0	0.0001				
%RSD:		0.0	3.11				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00877 Intercept: 0.00000

Sequence No.: 3
Sample ID: S0.5
Analyst:Autosampler Location: 3
Date Collected: 2/17/2010 09:39:01
Data Type: Original-----
Replicate Data: S0.5

Repl #	SampleConc ug/L	StdConc ug/L	BlncCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0045	0.0220	0.0050	09:40:02	Yes
2		[0.5]	0.0044	0.0217	0.0050	09:40:37	Yes
Mean:		[0.5]	0.0045				
SD:		0.0	0.0000				
%RSD:		0.0	0.41				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999971 Slope: 0.00893 Intercept: -0.00001

Sequence No.: 4
Sample ID: S2.0
Analyst:Autosampler Location: 4
Date Collected: 2/17/2010 09:40:56
Data Type: Original

Replicate Data: S2.0

Repl #	SampleConc ug/L	StdndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2.0]	0.0191	0.0895	0.0196	09:41:58	Yes
2		[2.0]	0.0191	0.0903	0.0197	09:42:32	Yes
Mean:		[2.0]	0.0191				
SD:		0.0	0.0000				
%RSD:		0.0	0.15				

Standard number 3 applied. [2.0]
Correlation Coef.: 0.999863 Slope: 0.00961 Intercept: -0.00015

Sequence No.: 5

Autosampler Location: 5

Sample ID: S5.0

Date Collected: 2/17/2010 09:42:52

Analyst:

Data Type: Original

Replicate Data: S5.0

Repl #	SampleConc ug/L	StdndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.0484	0.2236	0.0490	09:43:54	Yes
2		[5.0]	0.0483	0.2221	0.0488	09:44:29	Yes
Mean:		[5.0]	0.0484				
SD:		0.0	0.0001				
%RSD:		0.0	0.21				

Standard number 4 applied. [5.0]
Correlation Coef.: 0.999974 Slope: 0.00970 Intercept: -0.00020

Sequence No.: 6

Autosampler Location: 6

Sample ID: S10.0

Date Collected: 2/17/2010 09:44:49

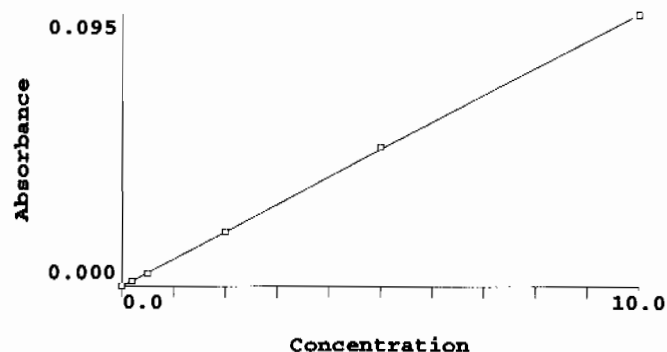
Analyst:

Data Type: Original

Replicate Data: S10.0

Repl #	SampleConc ug/L	StdndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.0954	0.4427	0.0960	09:45:49	Yes
2		[10.0]	0.0951	0.4391	0.0956	09:46:24	Yes
Mean:		[10.0]	0.0953				
SD:		0.0	0.0003				
%RSD:		0.0	0.27				

Standard number 5 applied. [10.0]
Correlation Coef.: 0.999961 Slope: 0.00956 Intercept: -0.00004

-----
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	0.004	0.00	17.9
S0.2	0.0018	0.2	0.188	0.00	3.1
S0.5	0.0045	0.5	0.471	0.00	0.4
S2.0	0.0191	2.0	2.004	0.00	0.1

S5.0	0.0484	5.0	5.063	0.00	0.2
S10.0	0.0953	10.0	9.969	0.00	0.3

Correlation Coef.: 0.999961 Slope: 0.00956 Intercept: -0.00004

Sequence No.: 7

Autosampler Location: 9

Sample ID: ICV

Date Collected: 2/17/2010 09:46:43

Analyst:

Data Type: Original

Replicate Data: ICV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.252	5.252	0.0502	0.2331	0.0507	09:47:44	Yes
2	5.207	5.207	0.0497	0.2298	0.0503	09:48:19	Yes
Mean:	5.230	5.230	0.0500				
SD:	0.032	0.032	0.0003				
%RSD:	0.607	0.607	0.61				

QC value within limits for Hg 253.7 Recovery = 104.60%

All analyte(s) passed QC.

Sequence No.: 8

Autosampler Location: 10

Sample ID: ICB

Date Collected: 2/17/2010 09:48:39

Analyst:

Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.015	-0.015	-0.0002	0.0016	0.0004	09:49:40	Yes
2	0.000	0.000	-0.0000	0.0027	0.0005	09:50:15	Yes
Mean:	-0.008	-0.008	-0.0001				
SD:	0.010	0.010	0.0001				
%RSD:	134.1	134.1	85.46				

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: 2/17/2010 09:50:35

Analyst:

Data Type: Original

Replicate Data: CRDL

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.178	0.178	0.0017	0.0097	0.0022	09:51:36	Yes
2	0.175	0.175	0.0016	0.0087	0.0022	09:52:11	Yes
Mean:	0.176	0.176	0.0016				
SD:	0.002	0.002	0.0000				
%RSD:	1.236	1.236	1.27				

QC value within limits for Hg 253.7 Recovery = 88.19%

All analyte(s) passed QC.

Sequence No.: 10

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/17/2010 09:52:31

Analyst:

Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.111	5.111	0.0488	0.2267	0.0494	09:53:31	Yes
2	5.119	5.119	0.0489	0.2263	0.0494	09:54:06	Yes
Mean:	5.115	5.115	0.0489				
SD:	0.005	0.005	0.0001				
%RSD:	0.106	0.106	0.11				

QC value within limits for Hg 253.7 Recovery = 102.30%

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCB
Analyst:

Autosampler Location: 8
Date Collected: 2/17/2010 09:54:25
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.016	-0.016	-0.0002	0.0004	0.0004	09:55:26	Yes
2	-0.014	-0.014	-0.0002	0.0015	0.0004	09:56:01	Yes
Mean:	-0.015	-0.015	-0.0002				
SD:	0.002	0.002	0.0000				
%RSD:	12.15	12.15	9.35				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 12
Sample ID: 1202039320|951563|1
Analyst: JXL

Autosampler Location: 12
Date Collected: 2/17/2010 09:56:20
Data Type: Original

Replicate Data: 1202039320|951563|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.013	-0.013	-0.0002	0.0005	0.0004	09:57:22	Yes
2	0.006	0.006	0.0000	0.0018	0.0006	09:57:57	Yes
Mean:	-0.003	-0.003	-0.0001				
SD:	0.013	0.013	0.0001				
%RSD:	409.9	409.9	173.74				

Sequence No.: 13
Sample ID: 1202039321|951563|1
Analyst: JXL

Autosampler Location: 13
Date Collected: 2/17/2010 09:58:17
Data Type: Original

Replicate Data: 1202039321|951563|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.018	2.018	0.0193	0.0913	0.0198	09:59:19	Yes
2	2.038	2.038	0.0194	0.0922	0.0200	09:59:54	Yes
Mean:	2.028	2.028	0.0193				
SD:	0.014	0.014	0.0001				
%RSD:	0.668	0.668	0.67				

Sequence No.: 14
Sample ID: 245934001|951563|1
Analyst: JXL

Autosampler Location: 14
Date Collected: 2/17/2010 10:00:14
Data Type: Original

Replicate Data: 245934001|951563|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.016	0.016	0.0001	0.0036	0.0007	10:01:14	Yes
2	0.024	0.024	0.0002	0.0038	0.0007	10:01:50	Yes
Mean:	0.020	0.020	0.0001				
SD:	0.005	0.005	0.0001				
%RSD:	27.85	27.85	35.88				

Sequence No.: 15
Sample ID: 245934002|951563|1
Analyst: JXL

Autosampler Location: 15
Date Collected: 2/17/2010 10:02:09
Data Type: Original

Replicate Data: 245934002|951563|1

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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Replicate Data: 1202039323|951563|1

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.024	2.024	0.0193	0.0929	0.0199	10:12:43	Yes
2	1.985	1.985	0.0189	0.0898	0.0195	10:13:17	Yes
Mean:	2.005	2.005	0.0191				
SD:	0.027	0.027	0.0003				
%RSD:	1.354	1.354	1.36				

=====

Sequence No.: 21
Sample ID: 1202039325|951563|5
Analyst: JXLAutosampler Location: 21
Date Collected: 2/17/2010 10:13:37
Data Type: Original-----
Replicate Data: 1202039325|951563|5

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.005	-0.005	-0.0001	0.0021	0.0005	10:14:38	Yes
2	-0.005	-0.005	-0.0001	0.0015	0.0005	10:15:13	Yes
Mean:	-0.005	-0.005	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	8.610	8.610	4.54				

=====

Sequence No.: 22
Sample ID: CCV
Analyst:Autosampler Location: 7
Date Collected: 2/17/2010 10:15:32
Data Type: Original-----
Replicate Data: CCV

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	5.089	5.089	0.0486	0.2253	0.0492	10:16:33	Yes
2	5.081	5.081	0.0485	0.2275	0.0491	10:17:08	Yes
Mean:	5.085	5.085	0.0486				
SD:	0.006	0.006	0.0001				
%RSD:	0.112	0.112	0.11				

QC value within limits for Hg 253.7 Recovery = 101.71%
All analyte(s) passed QC.

=====

Sequence No.: 23
Sample ID: CCB
Analyst:Autosampler Location: 8
Date Collected: 2/17/2010 10:17:26
Data Type: Original-----
Replicate Data: CCB

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.004	-0.004	-0.0001	0.0018	0.0005	10:18:27	Yes
2	-0.004	-0.004	-0.0001	0.0020	0.0005	10:19:02	Yes
Mean:	-0.004	-0.004	-0.0001				
SD:	0.000	0.000	0.0000				
%RSD:	8.591	8.591	4.14				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

=====

Sequence No.: 24
Sample ID: 246293002|951563|1
Analyst: JXLAutosampler Location: 22
Date Collected: 2/17/2010 10:19:21
Data Type: Original-----
Replicate Data: 246293002|951563|1

Repl	SampleConc	StdndConc	BlndCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.011	0.011	0.0001	0.0038	0.0006	10:20:23	Yes
2	0.002	0.002	-0.0000	0.0027	0.0005	10:20:58	Yes

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.019	-0.019	-0.0002	0.0005	0.0003	10:30:03	Yes
2	-0.002	-0.002	-0.0001	0.0020	0.0005	10:30:38	Yes
Mean:	-0.010	-0.010	-0.0001				
SD:	0.012	0.012	0.0001				
%RSD:	117.3	117.3	82.53				

Sequence No.: 30

Autosampler Location: 28

Sample ID: 246465001|951503|1

Date Collected: 2/17/2010 10:30:57

Analyst: JXL

Data Type: Original

Replicate Data: 246465001|951503|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.002	-0.002	-0.0001	0.0023	0.0005	10:31:58	Yes
2	0.004	0.004	-0.0000	0.0021	0.0005	10:32:33	Yes
Mean:	0.001	0.001	-0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	354.6	354.6	104.60				

Sequence No.: 31

Autosampler Location: 29

Sample ID: 246590001|951503|1

Date Collected: 2/17/2010 10:32:53

Analyst: JXL

Data Type: Original

Replicate Data: 246590001|951503|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.003	-0.003	-0.0001	0.0020	0.0005	10:33:53	Yes
2	0.000	0.000	-0.0000	0.0020	0.0005	10:34:28	Yes
Mean:	-0.001	-0.001	-0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	184.8	184.8	44.22				

Sequence No.: 32

Autosampler Location: 30

Sample ID: 246591001|951503|1

Date Collected: 2/17/2010 10:34:47

Analyst: JXL

Data Type: Original

Replicate Data: 246591001|951503|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.001	0.001	-0.0000	0.0022	0.0005	10:35:48	Yes
2	-0.007	-0.007	-0.0001	0.0024	0.0004	10:36:23	Yes
Mean:	-0.003	-0.003	-0.0001				
SD:	0.005	0.005	0.0001				
%RSD:	205.4	205.4	77.44				

Sequence No.: 33

Autosampler Location: 31

Sample ID: 246606001|951503|1

Date Collected: 2/17/2010 10:36:42

Analyst: JXL

Data Type: Original

Replicate Data: 246606001|951503|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.008	-0.008	-0.0001	0.0013	0.0004	10:37:43	Yes
2	0.001	0.001	-0.0000	0.0027	0.0005	10:38:18	Yes
Mean:	-0.003	-0.003	-0.0001				
SD:	0.007	0.007	0.0001				
%RSD:	201.4	201.4	87.27				

Sequence No.: 34

Autosampler Location: 7

Sample ID: CCV

Date Collected: 2/17/2010 10:38:37

Analyst:

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.901	4.901	0.0468	0.2205	0.0474	10:39:37	Yes
2	4.918	4.918	0.0470	0.2207	0.0475	10:40:12	Yes
Mean:	4.910	4.910	0.0469				
SD:	0.012	0.012	0.0001				
%RSD:	0.244	0.244	0.24				

QC value within limits for Hg 253.7 Recovery = 98.19%
All analyte(s) passed QC.

Sequence No.: 35

Autosampler Location: 8

Sample ID: CCB

Date Collected: 2/17/2010 10:40:31

Analyst:

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.000	0.000	-0.0000	0.0029	0.0005	10:41:32	Yes
2	0.009	0.009	0.0000	0.0036	0.0006	10:42:07	Yes
Mean:	0.004	0.004	0.0000				
SD:	0.006	0.006	0.0001				
%RSD:	131.4	131.4	>999.9%				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 36

Autosampler Location: 32

Sample ID: 1202039173|951503|1

Date Collected: 2/17/2010 10:42:27

Analyst: JXL

Data Type: Original

Replicate Data: 1202039173|951503|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.003	-0.003	-0.0001	0.0020	0.0005	10:43:27	Yes
2	-0.007	-0.007	-0.0001	0.0017	0.0004	10:44:02	Yes
Mean:	-0.005	-0.005	-0.0001				
SD:	0.003	0.003	0.0000				
%RSD:	62.16	62.16	31.63				

Sequence No.: 37

Autosampler Location: 33

Sample ID: 1202039174|951503|1

Date Collected: 2/17/2010 10:44:22

Analyst: JXL

Data Type: Original

Replicate Data: 1202039174|951503|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	2.012	2.012	0.0192	0.0919	0.0197	10:45:23	Yes
2	1.950	1.950	0.0186	0.0891	0.0192	10:45:57	Yes
Mean:	1.981	1.981	0.0189				
SD:	0.044	0.044	0.0004				
%RSD:	2.199	2.199	2.20				

Sequence No.: 38

Autosampler Location: 34

Sample ID: 1202039175|951503|5

Date Collected: 2/17/2010 10:46:17

Analyst: JXL

Data Type: Original

Replicate Data: 1202039175|951503|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.023	-0.023	-0.0003	0.0004	0.0003	10:47:18	Yes

2	-0.018	-0.018	-0.0002	0.0009	0.0003	10:47:53	Yes
Mean:	-0.020	-0.020	-0.0002				
SD:	0.003	0.003	0.0000				
%RSD:	16.22	16.22	13.32				

Sequence No.: 39

Sample ID: 1202039378|951593|1

Analyst: JXL

Autosampler Location: 35

Date Collected: 2/17/2010 10:48:13

Data Type: Original

Replicate Data: 1202039378|951593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.015	-0.015	-0.0002	0.0012	0.0004	10:49:15	Yes
2	-0.007	-0.007	-0.0001	0.0016	0.0004	10:49:50	Yes
Mean:	-0.011	-0.011	-0.0001				
SD:	0.005	0.005	0.0001				
%RSD:	48.40	48.40	34.45				

Sequence No.: 40

Sample ID: 1202039379|951593|1

Analyst: JXL

Autosampler Location: 36

Date Collected: 2/17/2010 10:50:10

Data Type: Original

Replicate Data: 1202039379|951593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.962	1.962	0.0187	0.0899	0.0193	10:51:12	Yes
2	1.964	1.964	0.0187	0.0892	0.0193	10:51:46	Yes
Mean:	1.963	1.963	0.0187				
SD:	0.001	0.001	0.0000				
%RSD:	0.069	0.069	0.07				

Sequence No.: 41

Sample ID: 246323001|951593|1

Analyst: JXL

Autosampler Location: 37

Date Collected: 2/17/2010 10:52:07

Data Type: Original

Replicate Data: 246323001|951593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.003	0.003	-0.0000	0.0024	0.0005	10:53:08	Yes
2	0.003	0.003	-0.0000	0.0032	0.0005	10:53:44	Yes
Mean:	0.003	0.003	-0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	13.18	13.18	23.27				

Sequence No.: 42

Sample ID: 246334001|951593|1

Analyst: JXL

Autosampler Location: 38

Date Collected: 2/17/2010 10:54:04

Data Type: Original

Replicate Data: 246334001|951593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.015	-0.015	-0.0002	0.0015	0.0004	10:55:05	Yes
2	-0.012	-0.012	-0.0002	0.0017	0.0004	10:55:40	Yes
Mean:	-0.014	-0.014	-0.0002				
SD:	0.002	0.002	0.0000				
%RSD:	15.38	15.38	11.62				

Sequence No.: 43

Sample ID: 246431001|951593|1

Analyst: JXL

Autosampler Location: 39

Date Collected: 2/17/2010 10:55:59

Data Type: Original

Replicate Data: 246431001|951593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.013	-0.013	-0.0002	0.0018	0.0004	10:57:00	Yes
2	-0.006	-0.006	-0.0001	0.0027	0.0005	10:57:36	Yes
Mean:	-0.009	-0.009	-0.0001				
SD:	0.005	0.005	0.0000				
%RSD:	54.51	54.51	36.73				

Sequence No.: 44

Sample ID: 1202039380|951593|1

Analyst: JXL

Autosampler Location: 40

Date Collected: 2/17/2010 10:57:55

Data Type: Original

Replicate Data: 1202039380|951593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.011	-0.011	-0.0002	0.0020	0.0004	10:58:57	Yes
2	-0.012	-0.012	-0.0002	0.0018	0.0004	10:59:32	Yes
Mean:	-0.012	-0.012	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	5.997	5.997	4.37				

Sequence No.: 45

Sample ID: 1202039381|951593|1

Analyst: JXL

Autosampler Location: 41

Date Collected: 2/17/2010 10:59:51

Data Type: Original

Replicate Data: 1202039381|951593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.943	1.943	0.0185	0.0894	0.0191	11:00:52	Yes
2	1.923	1.923	0.0183	0.0878	0.0189	11:01:27	Yes
Mean:	1.933	1.933	0.0184				
SD:	0.014	0.014	0.0001				
%RSD:	0.700	0.700	0.70				

Sequence No.: 46

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/17/2010 11:01:46

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.917	4.917	0.0470	0.2196	0.0475	11:02:47	Yes
2	4.890	4.890	0.0467	0.2184	0.0473	11:03:22	Yes
Mean:	4.904	4.904	0.0468				
SD:	0.019	0.019	0.0002				
%RSD:	0.390	0.390	0.39				

QC value within limits for Hg 253.7 Recovery = 98.07%
All analyte(s) passed QC.

Sequence No.: 47

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/17/2010 11:03:41

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.005	-0.005	-0.0001	0.0026	0.0005	11:04:41	Yes
2	-0.016	-0.016	-0.0002	0.0012	0.0004	11:05:17	Yes
Mean:	-0.011	-0.011	-0.0001				
SD:	0.008	0.008	0.0001				
%RSD:	72.63	72.63	51.34				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 48

Sample ID: 1202039382|951593|5

Analyst: JXL

Autosampler Location: 42

Date Collected: 2/17/2010 11:05:36

Data Type: Original

Replicate Data: 1202039382|951593|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.013	-0.013	-0.0002	0.0015	0.0004	11:06:37	Yes
2	-0.018	-0.018	-0.0002	0.0014	0.0003	11:07:12	Yes
Mean:	-0.015	-0.015	-0.0002				
SD:	0.004	0.004	0.0000				
%RSD:	22.71	22.71	17.67				

Sequence No.: 49

Sample ID: 246431002|951593|1

Analyst: JXL

Autosampler Location: 43

Date Collected: 2/17/2010 11:07:31

Data Type: Original

Replicate Data: 246431002|951593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.017	-0.017	-0.0002	0.0014	0.0004	11:08:32	Yes
2	-0.024	-0.024	-0.0003	0.0010	0.0003	11:09:07	Yes
Mean:	-0.021	-0.021	-0.0002				
SD:	0.005	0.005	0.0001				
%RSD:	25.92	25.92	21.33				

Sequence No.: 50

Sample ID: 246431003|951593|1

Analyst: JXL

Autosampler Location: 44

Date Collected: 2/17/2010 11:09:26

Data Type: Original

Replicate Data: 246431003|951593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.011	-0.011	-0.0001	0.0025	0.0004	11:10:27	Yes
2	-0.012	-0.012	-0.0002	0.0021	0.0004	11:11:02	Yes
Mean:	-0.012	-0.012	-0.0002				
SD:	0.001	0.001	0.0000				
%RSD:	6.297	6.297	4.58				

Sequence No.: 51

Sample ID: 246431004|951593|1

Analyst: JXL

Autosampler Location: 45

Date Collected: 2/17/2010 11:11:22

Data Type: Original

Replicate Data: 246431004|951593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.025	-0.025	-0.0003	0.0006	0.0003	11:12:23	Yes
2	-0.015	-0.015	-0.0002	0.0020	0.0004	11:12:58	Yes
Mean:	-0.020	-0.020	-0.0002				
SD:	0.007	0.007	0.0001				
%RSD:	34.12	34.12	27.98				

Sequence No.: 52

Sample ID: 246436001|951593|1

Analyst: JXL

Autosampler Location: 46

Date Collected: 2/17/2010 11:13:18

Data Type: Original

Replicate Data: 246436001|951593|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored

Replicate Data: 1202039441|951627|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.021	-0.021	-0.0002	0.0013	0.0003	11:24:01	Yes
2	-0.020	-0.020	-0.0002	0.0011	0.0003	11:24:36	Yes
Mean:	-0.021	-0.021	-0.0002				
SD:	0.000	0.000	0.0000				
%RSD:	0.177	0.177	0.15				

Sequence No.: 58

Sample ID: CCV

Analyst:

Autosampler Location: 7

Date Collected: 2/17/2010 11:24:56

Data Type: Original

Replicate Data: CCV

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.900	4.900	0.0468	0.2214	0.0474	11:25:56	Yes
2	4.923	4.923	0.0470	0.2210	0.0476	11:26:31	Yes
Mean:	4.912	4.912	0.0469				
SD:	0.016	0.016	0.0002				
%RSD:	0.329	0.329	0.33				

QC value within limits for Hg 253.7 Recovery = 98.24%
All analyte(s) passed QC.

Sequence No.: 59

Sample ID: CCB

Analyst:

Autosampler Location: 8

Date Collected: 2/17/2010 11:26:50

Data Type: Original

Replicate Data: CCB

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.020	-0.020	-0.0002	0.0009	0.0003	11:27:51	Yes
2	-0.014	-0.014	-0.0002	0.0014	0.0004	11:28:26	Yes
Mean:	-0.017	-0.017	-0.0002				
SD:	0.004	0.004	0.0000				
%RSD:	25.07	25.07	19.99				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 60

Sample ID: 1202039442|951627|1

Analyst: JXL

Autosampler Location: 52

Date Collected: 2/17/2010 11:28:45

Data Type: Original

Replicate Data: 1202039442|951627|1

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.956	1.956	0.0187	0.0901	0.0192	11:29:46	Yes
2	1.952	1.952	0.0186	0.0894	0.0192	11:30:21	Yes
Mean:	1.954	1.954	0.0186				
SD:	0.003	0.003	0.0000				
%RSD:	0.139	0.139	0.14				

Sequence No.: 61

Sample ID: 1202039443|951627|5

Analyst: JXL

Autosampler Location: 53

Date Collected: 2/17/2010 11:30:41

Data Type: Original

Replicate Data: 1202039443|951627|5

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.021	-0.021	-0.0002	0.0013	0.0003	11:31:42	Yes
2	-0.014	-0.014	-0.0002	0.0024	0.0004	11:32:17	Yes
Mean:	-0.017	-0.017	-0.0002				

Miscellaneous

Prep LogBook

Analyst: FGA Verified by: _____

Batch: 950315

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	Matrix	Spike Amount	Spike Units
MB	1202036425		SW846 3005A	15-FEB-2010 13:30	<2	50 mL	50 mL	1	WATER	.25	mL
LCS	1202036426		SW846 3005A	15-FEB-2010 13:30	<2	50 mL	50 mL	1	WATER	.25	mL
SAMPLE	246323001		SW846 3005A	15-FEB-2010 13:30	<2	50 mL	50 mL	1	WATER	.25	mL
SAMPLE	246334001		SW846 3005A	15-FEB-2010 13:30	<2	50 mL	50 mL	1	WATER	.25	mL
DUP	1202036427	246334001	SW846 3005A	15-FEB-2010 13:30	<2	50 mL	50 mL	1	WATER	.25	mL
MS	1202036428	246334001	SW846 3005A	15-FEB-2010 13:30	<2	50 mL	50 mL	1	WATER	.25	mL
SDILT	1202036429	246334001	SW846 3005A	15-FEB-2010 13:30	<2	50 mL	50 mL	1	WATER	.25	mL

Comments

Reagent/Solvent Lot ID	Amount	Description
1265209	2.5 mL	HYDROCHLORIC ACID
1268732	1 mL	Nitric Acid CONC.

Prep LogBook

Analyst: FGA
 Batch: 950323
 Lab SOP: GL-MA-E-006 REV#9

Verified by: _____

Type	Sample Id	Lot. Id	Spike Amount	Spike Units
LCS	1202036452	UI100120-A	.5	mL
LCS	1202036452	UI100120-B	.5	mL
MS	1202036454	UI090930-A	.5	mL
MS	1202036454	UI090930-B	.5	mL

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Ph	Initial Wt.	Final Volume	Prep Factor	Matrix
MB	1202036451		SW846 3005A	15-FEB-2010 13:30	<2	50 mL	50 mL	1	WATER
LCS	1202036452		SW846 3005A	15-FEB-2010 13:30	<2	50 mL	50 mL	1	WATER
SAMPLE	246323001		SW846 3005A	15-FEB-2010 13:30	<2	50 mL	50 mL	1	WATER
SAMPLE	246334001		SW846 3005A	15-FEB-2010 13:30	<2	50 mL	50 mL	1	WATER
DUP	1202036453	246334001	SW846 3005A	15-FEB-2010 13:30	<2	50 mL	50 mL	1	WATER
MS	1202036454	246334001	SW846 3005A	15-FEB-2010 13:30	<2	50 mL	50 mL	1	WATER
SDILT	1202036455	246334001	SW846 3005A	15-FEB-2010 13:30	<2	50 mL	50 mL	1	WATER

Comments

Reagent/Solvent Lot ID	Amount	Description
1265209	2.5 mL	HYDROCHLORIC ACID
1268732	1 mL	Nitric Acid CONC.

Prep LogBook

Analyst: TXB3 Verified by: _____

Batch: 951592

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	1202039378		SW846 7470A Prep	16-FEB-2010 11:55	<2	20 mL	20 mL	1		mL
LCS	1202039379		SW846 7470A Prep	16-FEB-2010 11:55	<2	20 mL	20 mL	1	.2	mL
SAMPLE	246323001		SW846 7470A Prep	16-FEB-2010 11:55	<2	20 mL	20 mL	1		mL
SAMPLE	246334001		SW846 7470A Prep	16-FEB-2010 11:55	<2	20 mL	20 mL	1		mL
SAMPLE	246431001		SW846 7470A Prep	16-FEB-2010 11:55	<2	20 mL	20 mL	1		mL
DUP	1202039380	246431001	SW846 7470A Prep	16-FEB-2010 11:55	<2	20 mL	20 mL	1		mL
MS	1202039381	246431001	SW846 7470A Prep	16-FEB-2010 11:55	<2	20 mL	20 mL	1		mL
SDILT	1202039382	246431001	SW846 7470A Prep	16-FEB-2010 11:55	<2	20 mL	20 mL	1		mL
SAMPLE	246431002		SW846 7470A Prep	16-FEB-2010 11:55	<2	20 mL	20 mL	1		mL
SAMPLE	246431003		SW846 7470A Prep	16-FEB-2010 11:55	<2	20 mL	20 mL	1		mL
SAMPLE	246431004		SW846 7470A Prep	16-FEB-2010 11:55	<2	20 mL	20 mL	1		mL
SAMPLE	246436001		SW846 7470A Prep	16-FEB-2010 11:55	<2	20 mL	20 mL	1		mL

Comments Digestion Start Date: 16-FEB-10 11:55
Digestion End Date: 16-FEB-10 13:55

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
1264984-C	3 mL	5% KMnO4 solution
1255332-C	1 mL	Hg reducing agent
WHG100216-06	500 uL	Mercury Working 2nd Source 5.0/CCV
WHG100216-01a	20 uL	Mercury Working 1st Source CAL 0.2/CRA
WHG100216-02	50 uL	Mercury Working 1st Source CAL 0.5
WHG100216-05	1 mL	Mercury Working 1st Source CAL 10.0
WHG100216-03	200 uL	Mercury Working 1st Source CAL 2.0
WHG100216-04	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: 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%IN5%HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Calcium	5000 mg/L
Iron	2000 mg/L	Magnesium	5000 mg/L

Serial ID: UI090612-02 **Opened:** 12-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 12-JUN-09 **Lot Number :** 1016377
Type: Source Material **Expires:** 12-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

Standard Logbook

Serial ID: UI090701-09 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #1 **Received:** 01-JUL-09 **Catalog Number :** 160044-09-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016477
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: 02SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UI090701-10 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #2 **Received:** 01-JUL-09 **Catalog Number :** 160044-08-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016476
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: 02SI
Description: ICPMS CRDL Soln #2
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Molybdenum	.5 mg/L
Silver	1 mg/L	Tin	2 mg/L
Titanium	10 mg/L	Tungsten	5 mg/L
Zirconium	2 mg/L		

Serial ID: UI090701-40 **Opened:** 01-JUL-09 **Amount :** 500 mL
Name: TRACE ICP Stock PQL St **Received:** 30-JUN-09 **Catalog Number :** 160543-01-03
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016475
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3+TrHF
Supplier: 02si
Description: TRACE ICP Stock PQL Standard
Comments: None

Analyte	Concentration	Analyte	Concentration
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Standard Logbook

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L
Sulfur	50 mg/L	Thallium	10 mg/L
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: UI090828-42 **Opened:** 16-SEP-09 **Amount :** 500 mL
Name: TRACE ICP Na-1000SOUR **Received:** 27-AUG-09 **Catalog Number :** 060011-02-03
Type: Source Material **Expires:** 01-MAR-10 **Lot Number :** 1017098
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: 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

Standard Logbook

Serial ID: UI090925-41 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX39-500B
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909130
Employee: Helen Camello **Solvent :** 5%HNO3,TR,HF
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L
Magnesium	1000 mg/L	Manganese	100 mg/L
Molybdenum	100 mg/L	Nickel	100 mg/L
Silver	50 mg/L	Sulfur	500 mg/L
Thallium	100 mg/L	Tin	100 mg/L
Titanium	100 mg/L	Uranium	100 mg/L
Vanadium	100 mg/L	Zinc	100 mg/L

Serial ID: UI090930-A **Opened:** 30-SEP-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 28-SEP-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 30-SEP-10
Employee: Francena Armstrong **Verified:** 21-NOV-08
Supplier: O2Si
Description: ICP-MS DOE liquid Spike Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	4 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Silicon	200 mg/L
Sodium	200 mg/L	Strontium	5 mg/L
Thallium	10 mg/L	Thorium	5 mg/L
Total Uranium	5 mg/L	Uranium	5 mg/L
Uranium-235	.0364 mg/L	Uranium-238	4.96 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI090930-B **Opened:** 30-SEP-09 **Catalog Number :** 160067-02
Name: ICP-MS DOE Liquid SPIKE **Received:** 28-SEP-09 **Lot Number :** 1017141
Type: Source Material **Expires:** 30-SEP-10
Employee: Francena Armstrong **Verified:** 21-NOV-08
Supplier: O2Si
Description: ICP-MS DOE Liquid Spike Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silver	5 mg/L	Tin	5 mg/L
Titanium	5 mg/L	Zirconium	5 mg/L

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3%H2O(NH4)2SiF6
Supplier: o2si
Description: Silicon 1000mg/L+/-0.3%in H2O(NH4)2SiF6
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Standard Logbook

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L
Tin	200 mg/L	Titanium	200 mg/L

Serial ID: UI091102-42 **Opened:** 17-NOV-09 **Amount :** 200 mL
Name: SILICON **Received:** 02-NOV-09 **Catalog Number :** HP100050-4F
Type: Source Material **Expires:** 17-NOV-10 **Lot Number :** 0921924
Employee: Helen Camello **Solvent :** H2O/tr HF
Supplier: 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: 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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: UI091217-08 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-DEC-09 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018211
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln C - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: UI091217-12 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 17-DEC-09 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018212
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: 02SI
Description: ICPMS ICSAB Master B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	2 mg/L	Barium	2 mg/L
Beryllium	2 mg/L	Boron	2 mg/L
Cadmium	2 mg/L	Chromium	2 mg/L
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

Standard Logbook

Serial ID: UI091217-13 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master C **Received:** 17-DEC-09 **Catalog Number :** 160033-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1016926
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: Q2SI
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: UI100120-01 **Opened:** 20-JAN-10 **Lot Number :** 1018095
Name: METALSPIKE-1 **Received:** 20-JAN-10
Type: Source Material **Expires:** 20-JAN-11
Employee: Bryan Davis
Supplier: Q2SI
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: UI100120-06 **Opened:** 20-JAN-10 **Lot Number :** 1018096
Name: METALSPIKE-2 **Received:** 20-JAN-10
Type: Source Material **Expires:** 20-JAN-11
Employee: Bryan Davis
Supplier: Q2SI
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

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Titanium	100 ug/mL	Uranium	100 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Serial ID: UI100120-A **Opened:** 20-JAN-10 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 20-JAN-10 **Lot Number :** 1018097
Type: Source Material **Expires:** 20-JAN-11
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
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: UI100120-B **Opened:** 20-JAN-10 **Catalog Number :** 160067-05
Name: ICP-MS ALL OTHER SPIKE **Received:** 20-JAN-10 **Lot Number :** 1017644
Type: Source Material **Expires:** 20-JAN-11
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

Standard Logbook

Serial ID: UI100210-48 **Opened:** 11-FEB-10 **Amount :** 1000 mL
Name: Trace ICP ICSEA **Received:** 10-FEB-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 11-FEB-11 **Lot Number :** 1018807
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Interferent Check Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 UG/L	Calcium	500000 UG/L
Iron	200000 UG/L	Magnesium	500000 UG/L

Serial ID: UI100211-40 **Opened:** 11-FEB-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 10-FEB-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 11-FEB-11 **Lot Number :** 1018409
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION A
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10000 ug/L	Arsenic	10000 ug/L
Barium	15000 ug/L	Beryllium	3000 ug/L
Boron	5000 ug/L	Cadmium	10000 ug/L
Chromium	25000 ug/L	Cobalt	10000 ug/L
Copper	20000 ug/L	Lead	25000 ug/L
Manganese	10000 ug/L	Molybdenum	10000 ug/L
Nickel	10000 ug/L	Phosphorous	15000 ug/L
Potassium	300000 ug/L	Selenium	10000 ug/L
Silica	107000 ug/L	Silicon	50000 ug/L
Silver	1000 ug/L	Strontium	10000 ug/L
Sulfur	50000 ug/L	Thallium	10000 ug/L
Tin	10000 ug/L	Titanium	10000 ug/L
Vanadium	10000 ug/L	Zinc	15000 ug/L

Serial ID: UI100211-41 **Opened:** 11-FEB-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 10-FEB-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 11-FEB-11 **Lot Number :** 1018409
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION B
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Calcium	500000 ug/L
Iron	500000 ug/L	Magnesium	500000 ug/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Sodium	500000 ug/L	Uranium	15000 ug/L

Serial ID: UI100219-11 **Opened:** 19-FEB-10 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 19-FEB-10 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 19-FEB-11 **Lot Number :** 1018321
Employee: Paul Boyd **Solvent :** 2% HNO3
Supplier: 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: UI100219-60 **Opened:** 19-FEB-10 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 19-FEB-10 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 19-FEB-11 **Lot Number :** 1018890
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Arsenic	100 mg/L
Barium	250 mg/L	Beryllium	100 mg/L
Cadmium	100 mg/L	Calcium	5000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	5000 mg/L
Lead	500 mg/L	Lithium	100 mg/L
Magnesium	5000 mg/L	Manganese	100 mg/L
Nickel	100 mg/L	Phosphorous	2500 mg/L
Potassium	5000 mg/L	Selenium	50 mg/L
Sodium	5000 mg/L	Strontium	100 mg/L
Thallium	50 mg/L	Thorium	250 mg/L
Uranium	500 mg/L	Vanadium	100 mg/L
Zinc	250 mg/L		

Standard Logbook

Serial ID: UI100219-61 **Opened:** 19-FEB-10 **Amount :** .5 mL
Name: ICPMS High Range Standard **Received:** 19-FEB-10 **Catalog Number :** 160212-02-01
Type: Source Material **Expires:** 19-FEB-11 **Lot Number :** 1018890
Employee: Paul Boyd **Solvent :** 2%HNO3 + Tr HF
Supplier: O2SI
Description: Linear Range Standard B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	25 mg/L	Molybdenum	100 mg/L
Silver	25 mg/L	Tin	100 mg/L
Tungsten	100 mg/L	Zirconium	50 mg/L

Serial ID: UMS100226-01 **Opened:** 26-FEB-10 **Amount :** 250 mL
Name: ICPMSCalSPIKEB **Received:** 26-FEB-10 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-104JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UMS100226-02 **Opened:** 26-FEB-10 **Catalog Number :** ZGEL-102-250
Name: ICPMSCalSPIKEA **Received:** 26-FEB-10 **Lot Number :** 21-103JB
Type: Source Material **Expires:** 26-FEB-11
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

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		

Standard Logbook

Serial ID: UMS100226-03 **Opened:** 26-FEB-10 **Amount :** 250 ml
Name: ICPMSCaSPIKEC **Received:** 26-FEB-10 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-102JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

Serial ID: IHG100216-01 **Opened:** 16-FEB-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 16-FEB-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 17-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: IHG100216-02 **Opened:** 16-FEB-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 16-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Intermediate **Expires:** 17-FEB-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 2nd Source 200 ug/L
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167641-02	Mercury	999.7 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WHG100216-01a **Opened:** 16-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL0.2CRA **Received:** 16-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 23-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.
IHG100216-01	Mercury	200 ug/L	20 uL	20 mL	.2 ug/L

Standard Logbook

Serial ID: WHG100216-02 **Opened:** 16-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL0.5 **Received:** 16-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 23-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.
IHG100216-01	Mercury	200 ug/L	50 uL	20 mL	.5 ug/L

Serial ID: WHG100216-03 **Opened:** 16-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL2.0 **Received:** 16-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 23-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.
IHG100216-01	Mercury	200 ug/L	200 uL	20 mL	2 ug/L

Serial ID: WHG100216-04 **Opened:** 16-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL5.0CCV **Received:** 16-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 23-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.
IHG100216-01	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100216-05 **Opened:** 16-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORKCAL10.0 **Received:** 16-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 23-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.
IHG100216-01	Mercury	200 ug/L	1 mL	20 mL	10 ug/L

Standard Logbook

Serial ID: WHG100216-06 **Opened:** 16-FEB-10 **Pipet Id :** Hg1289245
Name: MHGWORK5.0ICV **Received:** 16-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 23-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.
IHG100216-02	Mercury	200 ug/L	500 uL	20 mL	5 ug/L

Serial ID: WHG100216-13 **Opened:** 16-FEB-10 **Pipet Id :** Hg1289245
Name: MHGLIQLCSMSSPIKE **Received:** 16-FEB-10 **Solvent :** 2% HNO3-1257474
Type: Working **Expires:** 23-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: WI100217-42 **Opened:** 17-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 18-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1270010
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.
WI100217-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100217-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100217-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100217-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100217-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100217-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100217-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100217-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100217-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100217-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100217-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100217-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100217-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100217-43 **Opened:** 17-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 18-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1270010
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090828-42	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100217-44 **Opened:** 17-FEB-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expres:** 18-FEB-10 **Solvent :** 3%HCL and 1 %HNO3-1270010
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100217-45 **Opened:** 17-FEB-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 18-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1270010
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: WI100217-46 **Opened:** 17-FEB-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 18-FEB-10 **Solvent :** 3%HCL AND 1%HNO3-1270010
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: W1100217-47 **Opened:** 17-FEB-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 18-FEB-10 **Solvent :** 3%HCL & 1%HNO3-1270010
Employee: Helen Camello
Supplier: 02si
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WI100219-42 **Opened:** 19-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 20-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1270010
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.
WI100219-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100219-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100219-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100219-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100219-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100219-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100219-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100219-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100219-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100219-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100219-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100219-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100219-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100219-43 **Opened:** 19-FEB-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 20-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1270010
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090828-42	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
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: WI100219-44 **Opened:** 19-FEB-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 20-FEB-10 **Solvent :** 3%HCL and 1 %HNO3-1270010
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: W100219-45 **Opened:** 19-FEB-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 20-FEB-10 **Solvent :** 3%HCL and 1%HNO3 -1270010
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: W100219-46 **Opened:** 19-FEB-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 20-FEB-10 **Solvent :** 3%HCL AND 1%HNO3-1270010
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
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: WI100219-47 **Opened:** 19-FEB-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 20-FEB-10 **Solvent :** 3%HCL &1%HNO3-1270010
Employee: Helen Camello
Supplier: 02si
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100303-04 **Opened:** 03-MAR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 03-MAR-10 **Balance Id :** 4025216
Type: Working **Expires:** 04-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1276824
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100226-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100303-04A **Opened:** 03-MAR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 03-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 04-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100303-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100303-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100303-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100303-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100303-04B **Opened:** 03-MAR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 03-MAR-10 **Balance Id :** 40245216
Type: Working **Expires:** 04-MAR-10 **Pipet Id :** 1758088
Employee: Rose Jenkins **Solvent :** 2%HNO3/1%HCl- 1276824
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UMS100226-01	Vanadium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5	50 mL	100 ug/l

Serial ID: WMS100303-05 **Opened:** 03-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 03-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 04-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100303-06 **Opened:** 03-MAR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 03-MAR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 04-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100303-07 **Opened:** 03-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 03-MAR-10 **Lot Number :** 1010773
Type: Working **Expires:** 04-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1276824
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100303-08 **Opened:** 03-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 03-MAR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 04-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100303-70 **Opened:** 03-MAR-10 **Balance Id :** 40245216
Name: ICPMS LINEAR RANGE ST **Received:** 03-MAR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 04-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Paul Boyd
Supplier: 02SI
Description: ICPMS LINEAR RANGE STANDARD
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-60	Aluminum	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Arsenic	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Barium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100219-60	Beryllium	100 mg/L	.5 mL	50 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-60	Cadmium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Calcium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Chromium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Cobalt	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Copper	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Iron	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Lead	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100219-60	Lithium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Magnesium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Manganese	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Nickel	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Phosphorous	2500 mg/L	.5 mL	50 mL	25000 ug/L
UI100219-60	Potassium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Selenium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100219-60	Sodium	5000 mg/L	.5 mL	50 mL	50000 ug/L
UI100219-60	Strontium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Thallium	50 mg/L	.5 mL	50 mL	500 ug/L
UI100219-60	Thorium	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100219-60	Uranium	500 mg/L	.5 mL	50 mL	5000 ug/L
UI100219-60	Vanadium	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-60	Zinc	250 mg/L	.5 mL	50 mL	2500 ug/L
UI100219-61	Antimony	25 mg/L	.5 mL	50 mL	250 ug/L
UI100219-61	Molybdenum	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-61	Silver	25 mg/L	.5 mL	50 mL	250 ug/L
UI100219-61	Tin	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-61	Tungsten	100 mg/L	.5 mL	50 mL	1000 ug/L
UI100219-61	Zirconium	50 mg/L	.5 mL	50 mL	500 ug/L

Serial ID: WMS100304-04 **Opened:** 04-MAR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 04-MAR-10 **Balance Id :** 4025216
Type: Working **Expires:** 05-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1276824
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100226-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100304-04A **Opened:** 04-MAR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 04-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 04-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100303-04B	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04B	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100303-04B	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04B	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100303-04B	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04B	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04B	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04B	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04B	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100303-04B	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100303-04B	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100303-04B	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100304-05

Opened: 04-MAR-10

Balance Id : 40245216

Name: ICPMS ICV

Received: 04-MAR-10

Pipet Id : 3541598

Type: Working

Expires: 05-MAR-10

Solvent : 2%HNO3/1%HCl - 1276824

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
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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: <u>WMS100304-06</u>	Opened: <u>04-MAR-10</u>	Balance Id : <u>40245216</u>
Name: <u>ICPMS CRDL</u>	Received: <u>04-MAR-10</u>	Pipet Id : <u>3820544</u>
Type: <u>Working</u>	Expires: <u>05-MAR-10</u>	Solvent : <u>2%HNO3/1%HCl - 1276824</u>
Employee: <u>Paul Boyd</u>		
Supplier: <u>GEL</u>		
Description: <u>ICPMS CRDL</u>		
Comments: <u>None</u>		

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

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
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: WMS100304-07 **Opened:** 04-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 04-MAR-10 **Lot Number :** 1010773
Type: Working **Expires:** 05-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1276824
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100304-08
Name: ICPMS ICSAB
Type: Working
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Opened: 04-MAR-10 **Balance Id :** 40245216
Received: 04-MAR-10 **Pipet Id :** 1758088
Expires: 05-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1276824

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
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

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

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

Standard Logbook

Serial ID: 1228372-A **Opened:** 12-NOV-09 **Lot Number :** 49215936
Name: B-NH2OH.HCl-MER **Received:** 12-NOV-09
Type: Reagent/Solvent **Expires:** 12-NOV-10
Employee: Tara Griffin
Supplier: Fisher Scientific
Description: Hydroxylamine Hydrochloride
Comments: None

Serial ID: 1255532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Serial ID: 1257474-1 **Opened:** 20-JAN-10 **Instrument Id :** MERCURY
Name: B-HNO3-MER **Received:** 20-JAN-10 **Lot Number :** H20053
Type: Reagent/Solvent **Expires:** 20-JAN-11
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID
Comments: None

Serial ID: 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
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: 1264984-C **Opened:** 04-FEB-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 04-FEB-10
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution

Standard Logbook

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: 1265209 Opened: 04-FEB-10 Lot Number : J02039
 Name: I-HCL Received: 04-FEB-10 Preservative_Id : 5 none
 Type: Reagent/Solvent Expires: 04-FEB-11
 Employee: Bryan Davis
 Supplier: J.T. BAKER
 Description: HYDROCHLORIC ACID
 Comments: None

Serial ID: 1268732 Opened: 11-FEB-10 Lot Number : H12022 L
 Name: I-HNO3 Received: 11-FEB-10
 Type: Reagent/Solvent Expires: 11-FEB-11
 Employee: Bryan Davis
 Supplier: BAKER
 Description: Nitric Acid CONC.
 Comments: None

Serial ID: 1270010 Opened: 15-FEB-10 Amount : 20 L
 Name: B-ICP-RINSE SOLN Received: 05-FEB-10 Lot Number : H04040+G34050
 Type: Reagent/Solvent Expires: 21-FEB-10 Solvent : 3%HCL+1%HNO3
 Employee: Helen Camello
 Supplier: GEL
 Description: 3%HCL+1%HNO3 RINSE SOLN.
 Comments: None

Serial ID: 1276824 Opened: 01-MAR-10 Solvent : Type I Water
 Name: B-2%HNO3/1%HCl-ICPMS Received: 01-MAR-10
 Type: Reagent/Solvent Expires: 08-MAR-10
 Employee: Paul Boyd
 Supplier: GEL
 Description: 2%HNO3/1%HCl Solution (Type I Water)
 Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
100202	I-HCL	36.5-38.0	90 mL	9 l	N/A
1100721TCLP	I-HNO3	69.0-70.0	180 mL	9 l	N/A

General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1565**

Method/Analysis Information

Product:	Cyanide, Total		
Analytical Batch:	950196	Method:	SW9012A Cyanide and Total
Prep Batch :	950195	Method:	SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
246322001	RE15-10-7332
246322002	RE15-10-7333
246322003	RE15-10-7336
246322004	RE15-10-7337
246322005	RE15-10-7334
246322006	RE15-10-7335
246322007	RE15-10-7338
246322008	RE15-10-7339
246322009	RE15-10-7342
1202036020	Method Blank (MB)
1202036021	246262002(RE16-10-1151) Sample Duplicate (DUP)
1202036022	246322001(RE15-10-7332) Sample Duplicate (DUP)
1202036023	246262002(RE16-10-1151) Matrix Spike (MS)
1202036024	246322001(RE15-10-7332) Matrix Spike (MS)
1202036025	246262002(RE16-10-1151) Matrix Spike Duplicate (MSD)
1202036026	246322001(RE15-10-7332) Matrix Spike Duplicate (MSD)
1202036027	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: 246262002 (RE16-10-1151) and 246322001 (RE15-10-7332).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The matrix spike falls outside of the client specified acceptance limits due to matrix interference. 1202036024 (RE15-10-7332).

Matrix Spike Duplicate (MSD) Recovery Statement

The matrix spike duplicate falls outside of the client specified acceptance limits due to matrix interference. 1202036026 (RE15-10-7332).

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. 1202036021 (RE16-10-1151).

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: 1202036027 (LCS).

Sample Re-analysis

The samples in this SDG did not require re-analysis.

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

The following DER was generated for this SDG: 791360 1202036024 (RE15-10-7332) and 1202036026 (RE15-10-7332).

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: 04March10

Sample Data Summary

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Certificate of Analysis Report for

LANL010 Los Alamos National Laboratory (72733-001-09)

Client SDG: 10-1565 GEL Work Order: 246322

The Qualifiers in this report are defined as follows:

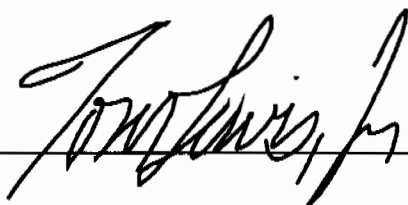
- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

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 'Valerie Davis', 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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7332
Sample ID: 246322001
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 6.46%

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	66.1	243	ug/kg	1	AXC2	02/15/10	1306	950196	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7333
Sample ID: 246322002
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 5.74%

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	72.1	265	ug/kg	1	AXC2	02/15/10	1313	950196	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7336
Sample ID: 246322003
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 7.24%

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	70.5	259	ug/kg	1	AXC2	02/15/10	1314	950196	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7337
Sample ID: 246322004
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 5.64%

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	63.2	232	ug/kg	1	AXC2	02/15/10	1315	950196	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7334
Sample ID: 246322005
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 22.1%

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	80.8	297	ug/kg	1	AXC2	02/15/10	1315	950196	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

The following Analytical Methods were performed

Method	Description	Analyst	Comments
1	SW846 9012A		

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Report Date: February 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7335
Sample ID: 246322006
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 12%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	69.0	254	ug/kg	1	AXC2	02/15/10	1316	950196	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

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Project: LANL ER Project

Report Date: February 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7338
Sample ID: 246322007
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 19.4%

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	81.2	298	ug/kg	1	AXC2	02/15/10	1317	950196	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7339
Sample ID: 246322008
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 13.3%

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	U	ND	74.0	272	ug/kg	1	AXC2	02/15/10	1318	950196	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 2010

Client SDG: 10-1565

Client Sample ID: RE15-10-7342
Sample ID: 246322009
Matrix: R
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client
Moisture: 5.65%

Project: LANL01004
Client ID: LANL010

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

SW9012A Cyanide, Total "Dry Weight Corrected"

Cyanide, Total	U	ND	69.3	255	ug/kg	1	AXC2	02/15/10	1319	950196	1
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/12/10	1535	950195

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 23, 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: 246322

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Flow Injection Analysis											
Batch	950196										
QC1202036021	246262002	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A		AXC2	02/15/10	13:03
QC1202036022	246322001	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A			02/15/10	13:07
QC1202036027	LCS										
Cyanide, Total	67900				32500	ug/kg	47.9	(32%-157%)		02/15/10	13:01
QC1202036020	MB										
Cyanide, Total			U		250	ug/kg				02/15/10	13:00
QC1202036023	246262002	MS									
Cyanide, Total	5590	U	ND		5380	ug/kg	96.3	(26%-158%)		02/15/10	13:04
QC1202036024	246322001	MS									
Cyanide, Total	4610	U	ND		3350	ug/kg	72.7	(26%-158%)		02/15/10	13:07
QC1202036025	246262002	MSD									
Cyanide, Total	5700	U	ND		5680	ug/kg	5.51	99.8	(0%-30%)	02/15/10	13:05
QC1202036026	246322001	MSD									
Cyanide, Total	4950	U	ND		3510	ug/kg	4.78	71	(0%-30%)	02/15/10	13:08

Notes:

RER is calculated at the 95% confidence level (2-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based

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QC Summary

Workorder: 246322

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
		on nearest internal standard response factor									
N/A		RPD or %Recovery limits do not apply.									
ND		Analyte concentration is not detected above the detection limit									
NJ		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
P		Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%									
R		Sample results are rejected									
U		Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.									
UI		Gamma Spectroscopy--Uncertain identification									
X		Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y		QC Samples were not spiked with this compound									
Z		Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.									
^		RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
d		5-day BOD--The 2:1 depletion requirement was not met for this sample									
h		Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Instrument QC Data Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 23-FEB-2010 18:47

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1565

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	15-FEB-2010 12:55:26	OM_2-15-2010_12-44-53	156	150	104	(90%-110%)	Yes
CCV	15-FEB-2010 13:09:44	OM_2-15-2010_12-44-53	104	100	104	(90%-110%)	Yes
CCV	15-FEB-2010 13:22:09	OM_2-15-2010_12-44-53	105	100	105	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	15-FEB-2010 12:57:16	OM_2-15-2010_12-44-53	-1.47	10	Yes
CCB	15-FEB-2010 13:11:34	OM_2-15-2010_12-44-53	-1.5	10	Yes
CCB	15-FEB-2010 13:23:59	OM_2-15-2010_12-44-53	-1.72	10	Yes

Cyanide, Total

Prep LogBook

Analyst: AXS5 Verified by: _____

Batch: 950195

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	1202036020		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.5 g	25 mL	50	.25	g
LCS	1202036027		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.25 g	25 mL	100	.025	mL
SAMPLE	246326002		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.51 g	25 mL	49.01961	.025	mL
DUP	1202036021	246262002	SW846 9010B Prep	12-FEB-2010 15:35	>12	0.52 g	25 mL	48.07692	.025	mL
MS	1202036023	246262002	SW846 9010B Prep	12-FEB-2010 15:35	>12	0.52 g	25 mL	48.07692	.025	mL
MSD	1202036025	246262002	SW846 9010B Prep	12-FEB-2010 15:35	>12	0.51 g	25 mL	49.01961	.025	mL
SAMPLE	246322001		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.55 g	25 mL	45.45455	.025	mL
DUP	1202036022	246322001	SW846 9010B Prep	12-FEB-2010 15:35	>12	0.5 g	25 mL	50	.025	mL
MS	1202036024	246322001	SW846 9010B Prep	12-FEB-2010 15:35	>12	0.58 g	25 mL	43.10345	.025	mL
MSD	1202036026	246322001	SW846 9010B Prep	12-FEB-2010 15:35	>12	0.54 g	25 mL	46.2963	.025	mL
SAMPLE	246322002		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	246322003		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.52 g	25 mL	48.07692	.025	mL
SAMPLE	246322004		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.57 g	25 mL	43.85965	.025	mL
SAMPLE	246322005		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.54 g	25 mL	46.2963	.025	mL
SAMPLE	246322006		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.56 g	25 mL	44.64286	.025	mL
SAMPLE	246322007		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.52 g	25 mL	48.07692	.025	mL
SAMPLE	246322008		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.53 g	25 mL	47.16981	.025	mL
SAMPLE	246322009		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.52 g	25 mL	48.07692	.025	mL
SAMPLE	246336001		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.54 g	25 mL	46.2963	.025	mL
SAMPLE	246336002		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.55 g	25 mL	45.45455	.025	mL
SAMPLE	246336003		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.57 g	25 mL	43.85965	.025	mL
SAMPLE	246336004		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	246336005		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.51 g	25 mL	49.01961	.025	mL
SAMPLE	246336006		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.53 g	25 mL	47.16981	.025	mL
SAMPLE	246336007		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.55 g	25 mL	45.45455	.025	mL
SAMPLE	246336008		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	246336009		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.5 g	25 mL	50	.025	mL
SAMPLE	246344001		SW846 9010B Prep	12-FEB-2010 15:35	>12	0.5 g	25 mL	50	.025	mL

Prep Data Logbook Version 1:1

GEL Laboratories LLC

Page#

Prep LogBook

Reagent/Solvent Lot ID	Amount	Description	Comments
I00210-C	25 mL	0.25N Sodium Hydroxide Solution	
WCN100212-07	.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	2/15/2010 12:48:16	OM_2-15-2010_12-44-53
150 ppb		1	axc2	2/15/2010 12:49:08	OM_2-15-2010_12-44-53
100 ppb		1	axc2	2/15/2010 12:50:01	OM_2-15-2010_12-44-53
50 ppb		1	axc2	2/15/2010 12:50:53	OM_2-15-2010_12-44-53
10 ppb		1	axc2	2/15/2010 12:51:47	OM_2-15-2010_12-44-53
CRDL 5.0 ppb		1	axc2	2/15/2010 12:52:40	OM_2-15-2010_12-44-53
ICAL-00		1	axc2	2/15/2010 12:53:35	OM_2-15-2010_12-44-53
ICV		1	axc2	2/15/2010 12:55:26	OM_2-15-2010_12-44-53
ICB		1	axc2	2/15/2010 12:57:16	OM_2-15-2010_12-44-53
		1	axc2	2/15/2010 12:59:06	OM_2-15-2010_12-44-53
1202036020	950196	1	axc2	2/15/2010 13:00:56	OM_2-15-2010_12-44-53
1202036027	950196	25	axc2	2/15/2010 13:01:49	OM_2-15-2010_12-44-53
246262002	950196	1	axc2	2/15/2010 13:02:43	OM_2-15-2010_12-44-53
1202036021	950196	1	axc2	2/15/2010 13:03:35	OM_2-15-2010_12-44-53
1202036023	950196	1	axc2	2/15/2010 13:04:29	OM_2-15-2010_12-44-53
1202036025	950196	1	axc2	2/15/2010 13:05:21	OM_2-15-2010_12-44-53
246322001	950196	1	axc2	2/15/2010 13:06:14	OM_2-15-2010_12-44-53
1202036022	950196	1	axc2	2/15/2010 13:07:06	OM_2-15-2010_12-44-53
1202036024	950196	1	axc2	2/15/2010 13:07:59	OM_2-15-2010_12-44-53
1202036026	950196	1	axc2	2/15/2010 13:08:51	OM_2-15-2010_12-44-53
CCV		1	axc2	2/15/2010 13:09:44	OM_2-15-2010_12-44-53
CCB		1	axc2	2/15/2010 13:11:34	OM_2-15-2010_12-44-53
246322002	950196	1	axc2	2/15/2010 13:13:22	OM_2-15-2010_12-44-53
246322003	950196	1	axc2	2/15/2010 13:14:14	OM_2-15-2010_12-44-53
246322004	950196	1	axc2	2/15/2010 13:15:06	OM_2-15-2010_12-44-53
246322005	950196	1	axc2	2/15/2010 13:15:58	OM_2-15-2010_12-44-53
246322006	950196	1	axc2	2/15/2010 13:16:49	OM_2-15-2010_12-44-53
246322007	950196	1	axc2	2/15/2010 13:17:43	OM_2-15-2010_12-44-53
246322008	950196	1	axc2	2/15/2010 13:18:37	OM_2-15-2010_12-44-53
246322009	950196	1	axc2	2/15/2010 13:19:30	OM_2-15-2010_12-44-53
246336001	950196	1	axc2	2/15/2010 13:20:23	OM_2-15-2010_12-44-53
246336002	950196	1	axc2	2/15/2010 13:21:17	OM_2-15-2010_12-44-53
CCV		1	axc2	2/15/2010 13:22:09	OM_2-15-2010_12-44-53
CCB		1	axc2	2/15/2010 13:23:59	OM_2-15-2010_12-44-53
246336003	950196	1	axc2	2/15/2010 13:25:48	OM_2-15-2010_12-44-53
246336004	950196	1	axc2	2/15/2010 13:26:42	OM_2-15-2010_12-44-53
246336005	950196	1	axc2	2/15/2010 13:27:34	OM_2-15-2010_12-44-53
246336006	950196	1	axc2	2/15/2010 13:28:27	OM_2-15-2010_12-44-53
246336007	950196	1	axc2	2/15/2010 13:29:19	OM_2-15-2010_12-44-53
246336008	950196	1	axc2	2/15/2010 13:30:12	OM_2-15-2010_12-44-53
246336009	950196	1	axc2	2/15/2010 13:31:05	OM_2-15-2010_12-44-53
246344001	950196	1	axc2	2/15/2010 13:31:56	OM_2-15-2010_12-44-53
1202036028	950198	1	axc2	2/15/2010 13:32:48	OM_2-15-2010_12-44-53
1202036035	950198	25	axc2	2/15/2010 13:33:40	OM_2-15-2010_12-44-53
CCV		1	axc2	2/15/2010 13:34:32	OM_2-15-2010_12-44-53
CCB		1	axc2	2/15/2010 13:36:22	OM_2-15-2010_12-44-53
246315001	950198	1	axc2	2/15/2010 13:38:12	OM_2-15-2010_12-44-53
246315002	950198	1	axc2	2/15/2010 13:39:06	OM_2-15-2010_12-44-53
246315003	950198	1	axc2	2/15/2010 13:40:00	OM_2-15-2010_12-44-53
246325001	950198	1	axc2	2/15/2010 13:40:53	OM_2-15-2010_12-44-53
246325002	950198	1	axc2	2/15/2010 13:41:47	OM_2-15-2010_12-44-53
246325003	950198	1	axc2	2/15/2010 13:42:40	OM_2-15-2010_12-44-53
246325004	950198	1	axc2	2/15/2010 13:43:33	OM_2-15-2010_12-44-53
246325005	950198	1	axc2	2/15/2010 13:44:25	OM_2-15-2010_12-44-53
246325006	950198	1	axc2	2/15/2010 13:45:18	OM_2-15-2010_12-44-53
246344002	950198	1	axc2	2/15/2010 13:46:12	OM_2-15-2010_12-44-53
CCV		1	axc2	2/15/2010 13:47:03	OM_2-15-2010_12-44-53
CCB		1	axc2	2/15/2010 13:48:54	OM_2-15-2010_12-44-53

1202036029	950198	1	axc2	2/15/2010	13:50:43	OM_2-15-2010_12-44-53
1202036031	950198	1	axc2	2/15/2010	13:51:35	OM_2-15-2010_12-44-53
1202036033	950198	1	axc2	2/15/2010	13:52:27	OM_2-15-2010_12-44-53
246344003	950198	1	axc2	2/15/2010	13:53:19	OM_2-15-2010_12-44-53
1202036030	950198	1	axc2	2/15/2010	13:54:12	OM_2-15-2010_12-44-53
1202036032	950198	1	axc2	2/15/2010	13:55:05	OM_2-15-2010_12-44-53
1202036034	950198	1	axc2	2/15/2010	13:56:00	OM_2-15-2010_12-44-53
246344004	950198	1	axc2	2/15/2010	13:56:54	OM_2-15-2010_12-44-53
246344005	950198	1	axc2	2/15/2010	13:57:47	OM_2-15-2010_12-44-53
246447001	950198	1	axc2	2/15/2010	13:58:41	OM_2-15-2010_12-44-53
CCV		1	axc2	2/15/2010	13:59:33	OM_2-15-2010_12-44-53
CCB		1	axc2	2/15/2010	14:01:23	OM_2-15-2010_12-44-53
246447002	950198	1	axc2	2/15/2010	14:03:13	OM_2-15-2010_12-44-53
246447003	950198	1	axc2	2/15/2010	14:04:06	OM_2-15-2010_12-44-53
246466001	950198	1	axc2	2/15/2010	14:05:00	OM_2-15-2010_12-44-53
246466002	950198	1	axc2	2/15/2010	14:05:53	OM_2-15-2010_12-44-53
246466003	950198	1	axc2	2/15/2010	14:06:45	OM_2-15-2010_12-44-53
246466004	950198	1	axc2	2/15/2010	14:07:38	OM_2-15-2010_12-44-53
CCV		1	axc2	2/15/2010	14:08:30	OM_2-15-2010_12-44-53
CCB		1	axc2	2/15/2010	14:10:21	OM_2-15-2010_12-44-53

Original Run Filename: OM_2-15-2010_12-44-53.OMN created 2/15/2010 12:44:53
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_2-15-2010_12-44-53.OMN last modified 2/15/2010 14:11:25
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-095 EPA 335.1, 335.3, 335.4, 9012A, CLP335.2-M
 Liquid LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1		Detection Time	ADF	MDF	Description
			TCYANIDE Conc. (ug/L)	Area (Vs)				
WCN100215-01	1	S1	200	10.4	2/15/2010@12:48:16			200 ppb
WCN100215-02	1	S2	150	7.79	2/15/2010@12:49:08			150 ppb
WCN100215-03	1	S3	100	5.26	2/15/2010@12:50:01			100 ppb
WCN100215-04	1	S4	50.0	2.78	2/15/2010@12:50:53			50 ppb
WCN100215-05	1	S5	10.0	0.645	2/15/2010@12:51:47			10 ppb
WCN100215-06	1	S6	5.00	0.365	2/15/2010@12:52:40			CRDL 5.0 ppb
WCN100215-08	1	S7	0.00	0.0118	2/15/2010@12:53:35			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99990 > 0.99500					
Message			Pass					
Action			Continue					
WCN100215-07	1	S8	156	8.13	2/15/2010@12:55:26			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			3.8 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			3.8 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100215-08	1	S7	-1.47	0.0264	2/15/2010@12:57:16			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.47 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.47 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100215-06	1	S6	4.83	0.352	2/15/2010@12:59:06			
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			4.83 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			4.83 > 2.50					
Message			Pass					
Action			None					
1202036020|950196|MB	1	1	-2.01	-0.00105	2/15/2010@13:00:56			
1202036027||LCS	1	2	13.0	0.772	2/15/2010@13:01:49		25.00	
246262002	1	3	-1.29	0.0358	2/15/2010@13:02:43			
1202036021||DUP	1	4	-2.14	-0.00794	2/15/2010@13:03:35			
1202036023||MS	1	5	96.3	5.07	2/15/2010@13:04:29			
1202036025||MSD	1	6	99.8	5.25	2/15/2010@13:05:21			
246322001	1	7	-0.994	0.0512	2/15/2010@13:06:14			
1202036022||DUP	1	8	-1.21	0.0399	2/15/2010@13:07:06			
1202036024||MS	1	9	72.7	3.85	2/15/2010@13:07:59			
1202036026||MSD	1	10	71.0	3.77	2/15/2010@13:08:51			
WCN100215-03	1	S3	104	5.49	2/15/2010@13:09:44			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			4.5 < 10.0					

		Message	CCV Passed				
		Action	Continue				
		DQM Test: < - Percent Relative Difference					
		Result:	4.5 < 10.0				
		Message	CCV Passed				
		Action	Continue				
WCN100215-08	1	S7	-1.50	0.0251	2/15/2010@13:11:34		CCB
		Known Conc:	0.00				
		DQM Test: > + Concentration Limit					
		Result:	-1.50 > 5.00				
		Message	CCB Passed				
		Action	Continue				
		DQM Test: < - Concentration Limit					
		Result:	-1.50 > -5.00				
		Message	CCB Passed				
		Action	Continue				
246322002	1	11	-1.41	0.0299	2/15/2010@13:13:22		
246322003	1	12	-1.57	0.0213	2/15/2010@13:14:14		
246322004	1	13	-1.44	0.0280	2/15/2010@13:15:06		
246322005	1	14	-1.16	0.0424	2/15/2010@13:15:58		
246322006	1	15	-1.49	0.0255	2/15/2010@13:16:49		
246322007	1	16	-0.265	0.0888	2/15/2010@13:17:43		
246322008	1	17	-1.33	0.0341	2/15/2010@13:18:37		
246322009	1	18	-1.33	0.0340	2/15/2010@13:19:30		
246336001	1	19	0.626	0.135	2/15/2010@13:20:23		
246336002	1	20	16.5	0.952	2/15/2010@13:21:17		
WCN100215-03	1	S3	105	5.53	2/15/2010@13:22:09		CCV
		Known Conc:	100				
		DQM Test: > + Percent Relative Difference					
		Result:	5.3 < 10.0				
		Message	CCV Passed				
		Action	Continue				
		DQM Test: < - Percent Relative Difference					
		Result:	5.3 < 10.0				
		Message	CCV Passed				
		Action	Continue				
WCN100215-08	1	S7	-1.72	0.0139	2/15/2010@13:23:59		CCB
		Known Conc:	0.00				
		DQM Test: > + Concentration Limit					
		Result:	-1.72 < 5.00				
		Message	CCB Passed				
		Action	Continue				
		DQM Test: < - Concentration Limit					
		Result:	-1.72 > -5.00				
		Message	CCB Passed				
		Action	Continue				
246336003	1	21	-0.0779	0.0984	2/15/2010@13:25:48		
246336004	1	22	1.02	0.155	2/15/2010@13:26:42		
246336005	1	23	-1.32	0.0345	2/15/2010@13:27:34		
246336006	1	24	-1.08	0.0469	2/15/2010@13:28:27		
246336007	1	25	-1.29	0.0360	2/15/2010@13:29:19		
246336008	1	26	-0.178	0.0932	2/15/2010@13:30:12		
246336009	1	27	-0.449	0.0793	2/15/2010@13:31:05		
246344001	1	28	-1.02	0.0498	2/15/2010@13:31:56		
1202036028|950198|MB	1	29	-1.43	0.0287	2/15/2010@13:32:48		
1202036035|LCS	1	30	30.1	1.66	2/15/2010@13:33:40	25.00	
WCN100215-03	1	S3	106	5.57	2/15/2010@13:34:32		CCV
		Known Conc:	100				
		DQM Test: > + Percent Relative Difference					
		Result:	6.0 < 10.0				
		Message	CCV Passed				
		Action	Continue				
		DQM Test: < - Percent Relative Difference					
		Result:	6.0 < 10.0				
		Message	CCV Passed				
		Action	Continue				
WCN100215-08	1	S7	-1.50	0.0250	2/15/2010@13:36:22		CCB
		Known Conc:	0.00				

DQM Test: > + Concentration Limit						
Result:		-1.50 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.50 > -5.00				
Message		CCB Passed				
Action		Continue				
246315001	1	31	-1.12	0.0448	2/15/2010@13:38:12	
246315002	1	32	-1.43	0.0288	2/15/2010@13:39:06	
246315003	1	33	0.565	0.132	2/15/2010@13:40:00	
246325001	1	34	-1.99	-1.99e-4	2/15/2010@13:40:53	
246325002	1	35	-1.44	0.0280	2/15/2010@13:41:47	
246325003	1	36	-2.17	-0.00943	2/15/2010@13:42:40	
246325004	1	37	-1.47	0.0264	2/15/2010@13:43:33	
246325005	1	38	-1.91	0.00401	2/15/2010@13:44:25	
246325006	1	39	-2.00	-7.90e-4	2/15/2010@13:45:18	
246344002	1	40	-0.652	0.0688	2/15/2010@13:46:12	
WCN100215-03	1	S3	106	5.59	2/15/2010@13:47:03	CCV
Known Conc:		100				
DQM Test: > + Percent Relative Difference						
Result:		6.4 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		6.4 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100215-08	1	S7	-1.70	0.0149	2/15/2010@13:48:54	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-1.70 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.70 > -5.00				
Message		CCB Passed				
Action		Continue				
1202036029||DUP	1	41	-0.396	0.0820	2/15/2010@13:50:43	
1202036031||MS	1	42	91.8	4.84	2/15/2010@13:51:35	
1202036033||MSD	1	43	103	5.39	2/15/2010@13:52:27	
246344003	1	44	-0.871	0.0575	2/15/2010@13:53:19	
1202036030||DUP	1	45	-1.24	0.0383	2/15/2010@13:54:12	
1202036032||MS	1	46	104	5.48	2/15/2010@13:55:05	
1202036034||MSD	1	47	100	5.26	2/15/2010@13:56:00	
246344004	1	48	-0.460	0.0787	2/15/2010@13:56:54	
246344005	1	49	6.38	0.431	2/15/2010@13:57:47	
246447001	1	50	-2.24	-0.0131	2/15/2010@13:58:41	
WCN100215-03	1	S3	106	5.59	2/15/2010@13:59:33	CCV
Known Conc:		100				
DQM Test: > + Percent Relative Difference						
Result:		6.4 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		6.4 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100215-08	1	S7	-1.66	0.0170	2/15/2010@14:01:23	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-1.66 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.66 > -5.00				
Message		CCB Passed				
Action		Continue				

246447002	1	51	-1.48	0.0262	2/15/2010@14:03:13		
246447003	1	52	-1.46	0.0273	2/15/2010@14:04:06		
246466001	1	53	-1.20	0.0407	2/15/2010@14:05:00		
246466002	1	54	-1.31	0.0347	2/15/2010@14:05:53		
246466003	1	55	-1.68	0.0158	2/15/2010@14:06:45		
246466004	1	56	-1.02	0.0498	2/15/2010@14:07:38		
WCN100215-03	1	S3	107	5.60	2/15/2010@14:08:30		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			6.6 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			6.6 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100215-08	1	S7	-1.66	0.0166	2/15/2010@14:10:21		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-1.66 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-1.66 > -5.00				
Message			CCB Passed				
Action			Continue				

Analyte Properties Table for OM_2-15-2010_12-44-53.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

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	10.4	0.678	-0.1	2/15/2010	12:49:19
2	150	1	7.79	0.509	0.6	2/15/2010	12:50:11
3	100	1	5.26	0.340	0.0	2/15/2010	12:51:04
4	50.0	1	2.78	0.180	-3.7	2/15/2010	12:51:57
5	10.0	1	0.645	0.0416	-4.2	2/15/2010	12:52:50
6	5.00	1	0.365	0.0237	-1.2	2/15/2010	12:53:44
7	0.00	1	0.0118	0.00242		2/15/2010	12:54:38

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 10.4, and the x-axis ranges from 0.00 to 200. A linear regression line is fitted to the data points, with the equation $\text{Area} = 0.0516 * \text{Conc} + 0.103$ and a correlation coefficient $(r) = 0.99990$. The text "No Weighting" is displayed on the plot.

Miscellaneous

DATA EXCEPTION REPORT

Mo.Day Yr. 16-FEB-10	Division: Federal	Quality Criteria:	Type:
Instrument Type:	Test / Method: SW846 9012A	Matrix Type: Solid	Client Code: LANL
Batch ID: 950196	Sample Numbers: See Below		

Potentially affected work order(s)(SDG): 246262(10-1573),246322(10-1565),246336(10-1568-1),246344(10-1570)

Application Issues:

Failed Recovery for MS/PS

Failed Recovery for MSD/PSD

**Specification and Requirements
Exception Description:**

1. Failed recovery for MS/MSD:

QC 1202036024MS
1202036026MSD

DER Disposition:

1. The matrix spike falls outside of the client specified acceptance limits due to matrix interference. The matrix spike duplicate verified the result with a passing RPD.

Originator's Name:

Ashley Earl

16-FEB-10

Data Validator/Group Leader:

Elzbieta Szulc

22-FEB-10

General Chemistry

Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1565-1**

Method/Analysis Information

Product: Cyanide, Total

Analytical Batch: 949511 **Method:** SW9012A Cyanide and Total

Prep Batch : 949509 **Method:** SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
246323001	RE15-10-7344
1202034323	Method Blank (MB)
1202034324	245934002(CASA-10-9412) Sample Duplicate (DUP)
1202034325	246064001(CASA-10-9111) Sample Duplicate (DUP)
1202034326	245934002(CASA-10-9412) Matrix Spike (MS)
1202034327	246064001(CASA-10-9111) Matrix Spike (MS)
1202034328	245934002(CASA-10-9412) Matrix Spike Duplicate (MSD)
1202034329	246064001(CASA-10-9111) Matrix Spike Duplicate (MSD)
1202034330	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 samples were selected for QC analysis: 245934002 (CASA-10-9412) and 246064001 (CASA-10-9111).

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. 1202034324 (CASA-10-9412) and 1202034325 (CASA-10-9111).

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Preservation/Integrity

All the samples from this sample group met the preservation and integrity requirements of the method.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information

Data Exception (DER) Documentation

A DER was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

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

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

Certification Statement

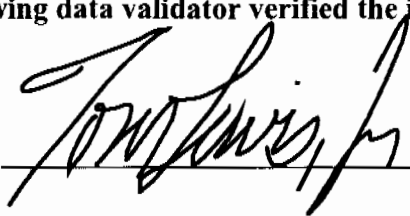
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

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:

04March10

Sample Data Summary

GEL LABORATORIES LLC

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

Certificate of Analysis Report for

LANL010 Los Alamos National Laboratory (72733-001-09)

Client SDG: 10-1565-J GEL Work Order: 246323

The Qualifiers in this report are defined as follows:

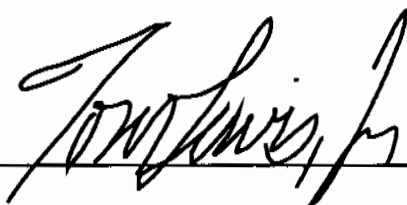
- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

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



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 17, 2010

Client SDG: 10-1565-1

Client Sample ID: RE15-10-7344
Sample ID: 246323001
Matrix: W
Collect Date: 01-FEB-10 12:00
Receive Date: 05-FEB-10
Collector: Client

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "As Received"</i>											
Cyanide, Total	U	ND	1.66	5.00	ug/L	1	AXC2	02/11/10	1032	949511	1

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/11/10	0838	949509

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9012A	

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: February 17, 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: 246323

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Flow Injection Analysis											
Batch	949511										
QC1202034324	245934002	DUP									
Cyanide, Total		J	2.66	J	4.23	ug/L	45.6 ^	(+/-5.00)	AXC2	02/11/10	10:07
QC1202034325	246064001	DUP									
Cyanide, Total		U	ND	J	2.13	ug/L	200	(+/-5.00)		02/11/10	10:12
QC1202034330	LCS										
Cyanide, Total	50.0				48.1	ug/L	96.2	(90%-110%)		02/11/10	10:06
QC1202034323	MB										
Cyanide, Total				U	5.00	ug/L				02/11/10	10:05
QC1202034326	245934002	MS									
Cyanide, Total	100	J	2.66		105	ug/L	102	(60%-144%)		02/11/10	10:08
QC1202034327	246064001	MS									
Cyanide, Total	100	U	ND		104	ug/L	102	(60%-144%)		02/11/10	10:13
QC1202034328	245934002	MSD									
Cyanide, Total	100	J	2.66		92.5	ug/L	12.7	89.8	(0%-20%)	02/11/10	10:09
QC1202034329	246064001	MSD									
Cyanide, Total	100	U	ND		104	ug/L	0.00	102	(0%-20%)	02/11/10	10:17

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.

GEL LABORATORIES LLC

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

QC Summary

Workorder: 246323

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
ND	Analyte concentration is not detected above the detection limit									
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
P	Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%									
R	Sample results are rejected									
U	Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.									
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier									
Y	QC Samples were not spiked with this compound									
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.									
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.									
d	5-day BOD--The 2:1 depletion requirement was not met for this sample									
h	Preparation or preservation holding time was exceeded									

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Instrument QC Data Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 17-FEB-2010 14:11

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1565-1

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	11-FEB-2010 09:59:47	OM_2-11-2010_09-49-17	146	150	97.3	(90%-110%)	Yes
CCV	11-FEB-2010 10:14:05	OM_2-11-2010_09-49-17	102	100	102	(90%-110%)	Yes
CCV	11-FEB-2010 10:26:31	OM_2-11-2010_09-49-17	103	100	103	(90%-110%)	Yes
CCV	11-FEB-2010 10:37:09	OM_2-11-2010_09-49-17	103	100	103	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	11-FEB-2010 10:01:38	OM_2-11-2010_09-49-17	-1.07	10	Yes
CCB	11-FEB-2010 10:15:55	OM_2-11-2010_09-49-17	-0.943	10	Yes
CCB	11-FEB-2010 10:28:21	OM_2-11-2010_09-49-17	-1.02	10	Yes
CCB	11-FEB-2010 10:38:59	OM_2-11-2010_09-49-17	-0.764	10	Yes

Cyanide, Total

Prep Logbook

Cyanide Sample Distillation

Batch ID: 949509.0
Analyst: Alan Stanley
Method: SW846 9010B Prep EPA 335.4
Lab SOP: GL-GC-E-067 REV# 13
Instrument: Sartorius Balance B-001

Verified by:

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202034330	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.0125	mL
MS	1202034326	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MS	1202034327	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MSD	1202034328	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MSD	1202034329	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
1202034323 MB	11-FEB-2010 08:38:00	Water	25	25	1	>12
1202034330 LCS	11-FEB-2010 08:38:00	Water	25	25	1	>12
245934002	11-FEB-2010 08:38:00	Water	25	25	1	>12
1202034324 DUP (245934002)	11-FEB-2010 08:38:00	Water	25	25	1	>12
1202034326 MS (245934002)	11-FEB-2010 08:38:00	Water	25	25	1	>12
1202034328 MSD (245934002)	11-FEB-2010 08:38:00	Water	25	25	1	>12
245934003	11-FEB-2010 08:38:00	Water	25	25	1	>12
246064001	11-FEB-2010 08:38:00	Surface Water	25	25	1	>12
1202034325 DUP (246064001)	11-FEB-2010 08:38:00	Surface Water	25	25	1	>12
1202034327 MS (246064001)	11-FEB-2010 08:38:00	Surface Water	25	25	1	>12
1202034329 MSD (246064001)	11-FEB-2010 08:38:00	Surface Water	25	25	1	>12
246064005	11-FEB-2010 08:38:00	Surface Water	25	25	1	>12
246064009	11-FEB-2010 08:38:00	Surface Water	25	25	1	>12
246225002	11-FEB-2010 08:38:00	Waste Water	25	25	1	>12
246264001	11-FEB-2010 08:38:00	Water	25	25	1	>12
246269001	11-FEB-2010 08:38:00	Water	25	25	1	>12
246278001	11-FEB-2010 08:38:00	Water	25	25	1	>12
246292001	11-FEB-2010 08:38:00	Water	25	25	1	>12
246292002	11-FEB-2010 08:38:00	Water	25	25	1	>12
246293001	11-FEB-2010 08:38:00	Water	25	25	1	>12

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 949509.0
Analyst: Alan Stanley
Method: SW846 9010B Prep EPA 335.4
Lab SOP: GL-GC-E-067 REV# 13
Instrument: Sartorius Balance B-001

Verified by:

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202034330	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.0125	mL
MS	1202034326	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MS	1202034327	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MSD	1202034328	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL
MSD	1202034329	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1184831-02	.025	mL

Sample ID	Run Date	Matrix	Initial Volume (mL)	Final Volume (mL)	Prep Factor (mL/mL)	pH Check
246293003	11-FEB-2010 08:38:00	Water	25	25	1	>12
246306001	11-FEB-2010 08:38:00	Water	25	25	1	>12
246313001	11-FEB-2010 08:38:00	Water	25	25	1	>12
246323001	11-FEB-2010 08:38:00	Water	25	25	1	>12
246334001	11-FEB-2010 08:38:00	Water	25	25	1	>12
246436001	11-FEB-2010 08:38:00	Water	25	25	1	>12
246448001	11-FEB-2010 08:38:00	Water	25	25	1	>12
246472001	11-FEB-2010 08:38:00	Water	25	25	1	>12

Comments:

Reagent/Solvent Lot ID	Description	Amount
100210-C	0.25N Sodium Hydroxide Solution	25 mL
1176724-C	0.8N H3NO3S	1.25 mL
1176778-C	51% MgCl2 Soln	1 mL
1238142-C	Bismuth Nitrate Solution	1.25 mL
1260189-C	50% H2SO4 CN Prep	2.5 mL
WCN100210-07	150 ppb CN Distilled ICV Standard	.0375 mL

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	2/11/2010 9:52:37	OM_2-11-2010_09-49-17
150 ppb		1	axc2	2/11/2010 9:53:30	OM_2-11-2010_09-49-17
100 ppb		1	axc2	2/11/2010 9:54:22	OM_2-11-2010_09-49-17
50 ppb		1	axc2	2/11/2010 9:55:15	OM_2-11-2010_09-49-17
10 ppb		1	axc2	2/11/2010 9:56:08	OM_2-11-2010_09-49-17
CRDL 5.0 ppb		1	axc2	2/11/2010 9:57:02	OM_2-11-2010_09-49-17
ICAL-00		1	axc2	2/11/2010 9:57:56	OM_2-11-2010_09-49-17
ICV		1	axc2	2/11/2010 9:59:47	OM_2-11-2010_09-49-17
ICB		1	axc2	2/11/2010 10:01:38	OM_2-11-2010_09-49-17
		1	axc2	2/11/2010 10:03:27	OM_2-11-2010_09-49-17
1202034323	949511	1	axc2	2/11/2010 10:05:17	OM_2-11-2010_09-49-17
1202034330	949511	1	axc2	2/11/2010 10:06:10	OM_2-11-2010_09-49-17
245934002	949511	1	axc2	2/11/2010 10:07:04	OM_2-11-2010_09-49-17
1202034324	949511	1	axc2	2/11/2010 10:07:57	OM_2-11-2010_09-49-17
1202034326	949511	1	axc2	2/11/2010 10:08:50	OM_2-11-2010_09-49-17
1202034328	949511	1	axc2	2/11/2010 10:09:43	OM_2-11-2010_09-49-17
245934003	949511	1	axc2	2/11/2010 10:10:35	OM_2-11-2010_09-49-17
246064001	949511	1	axc2	2/11/2010 10:11:28	OM_2-11-2010_09-49-17
1202034325	949511	1	axc2	2/11/2010 10:12:20	OM_2-11-2010_09-49-17
1202034327	949511	1	axc2	2/11/2010 10:13:12	OM_2-11-2010_09-49-17
CCV		1	axc2	2/11/2010 10:14:05	OM_2-11-2010_09-49-17
CCB		1	axc2	2/11/2010 10:15:55	OM_2-11-2010_09-49-17
1202034329	949511	1	axc2	2/11/2010 10:17:43	OM_2-11-2010_09-49-17
246064005	949511	1	axc2	2/11/2010 10:18:36	OM_2-11-2010_09-49-17
246064009	949511	1	axc2	2/11/2010 10:19:27	OM_2-11-2010_09-49-17
246225002	949511	1	axc2	2/11/2010 10:20:19	OM_2-11-2010_09-49-17
246264001	949511	1	axc2	2/11/2010 10:21:11	OM_2-11-2010_09-49-17
246269001	949511	1	axc2	2/11/2010 10:22:05	OM_2-11-2010_09-49-17
246278001	949511	1	axc2	2/11/2010 10:22:58	OM_2-11-2010_09-49-17
246292001	949511	1	axc2	2/11/2010 10:23:52	OM_2-11-2010_09-49-17
246292002	949511	1	axc2	2/11/2010 10:24:45	OM_2-11-2010_09-49-17
246293001	949511	1	axc2	2/11/2010 10:25:38	OM_2-11-2010_09-49-17
CCV		1	axc2	2/11/2010 10:26:31	OM_2-11-2010_09-49-17
CCB		1	axc2	2/11/2010 10:28:21	OM_2-11-2010_09-49-17
246293003	949511	1	axc2	2/11/2010 10:30:10	OM_2-11-2010_09-49-17
246306001	949511	1	axc2	2/11/2010 10:31:03	OM_2-11-2010_09-49-17
246313001	949511	1	axc2	2/11/2010 10:31:55	OM_2-11-2010_09-49-17
246323001	949511	1	axc2	2/11/2010 10:32:47	OM_2-11-2010_09-49-17
246334001	949511	1	axc2	2/11/2010 10:33:40	OM_2-11-2010_09-49-17
246436001	949511	1	axc2	2/11/2010 10:34:33	OM_2-11-2010_09-49-17
246448001	949511	1	axc2	2/11/2010 10:35:25	OM_2-11-2010_09-49-17
246472001	949511	1	axc2	2/11/2010 10:36:17	OM_2-11-2010_09-49-17
CCV		1	axc2	2/11/2010 10:37:09	OM_2-11-2010_09-49-17
CCB		1	axc2	2/11/2010 10:38:59	OM_2-11-2010_09-49-17

Original Run Filename: OM_2-11-2010_09-49-17.OMN created 2/11/2010 09:49:17
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_2-11-2010_09-49-17.OMN last modified 2/11/2010 10:40:05
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-095 EPA 335.1, 335.3, 335.4, 9012A, CLP335.2-M
 Liquid LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1 TCYANIDE		Detection Time	ADF	MDF	Description
			Conc. (ug/L)	Area (Vs)				
WCN100211-01	1	S1	200	8.83	2/11/2010@09:52:37			200 ppb
WCN100211-02	1	S2	150	6.63	2/11/2010@09:53:30			150 ppb
WCN100211-03	1	S3	100	4.36	2/11/2010@09:54:22			100 ppb
WCN100211-04	1	S4	50.0	2.20	2/11/2010@09:55:15			50 ppb
WCN100211-05	1	S5	10.0	0.540	2/11/2010@09:56:08			10 ppb
WCN100211-06	1	S6	5.00	0.362	2/11/2010@09:57:02			CRDL 5.0 ppb
WCN100211-08	1	S7	0.00	0.0328	2/11/2010@09:57:56			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99988 > 0.99500					
Message			Pass					
Action			Continue					
WCN100211-07	1	S8	146	6.43	2/11/2010@09:59:47			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			-2.8 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-2.8 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100211-08	1	S7	-1.07	0.0209	2/11/2010@10:01:38			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.07 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.07 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100211-06	1	S6	6.35	0.345	2/11/2010@10:03:27			
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			6.35 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			6.35 > 2.50					
Message			Pass					
Action			None					
1202034323|949511|MB	1	1	-1.45	0.00419	2/11/2010@10:05:17			
1202034330||LCS	1	2	48.1	2.17	2/11/2010@10:06:10			
245934002	1	3	2.66	0.183	2/11/2010@10:07:04			
1202034324||DUP	1	4	4.23	0.252	2/11/2010@10:07:57			
1202034326||MS	1	5	105	4.65	2/11/2010@10:08:50			
1202034328||MSD	1	6	92.5	4.10	2/11/2010@10:09:43			
245934003	1	7	-0.642	0.0396	2/11/2010@10:10:35			
246064001	1	8	1.58	0.136	2/11/2010@10:11:28			
1202034325||DUP	1	9	2.13	0.161	2/11/2010@10:12:20			
1202034327||MS	1	10	104	4.59	2/11/2010@10:13:12			
WCN100211-03	1	S3	102	4.52	2/11/2010@10:14:05			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			2.1 < 10.0					

		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	2.1 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100211-08	1	S7	-0.943	0.0264	2/11/2010@10:15:55			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-0.943 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-0.943 > -5.00					
		Message	CCB Passed					
		Action	Continue					
1202034329||MSD	1	11	104	4.62	2/11/2010@10:17:43			
246064005	1	12	2.07	0.158	2/11/2010@10:18:36			
246064009	1	13	0.264	0.0791	2/11/2010@10:19:27			
246225002	1	14	39.6	1.80	2/11/2010@10:20:19			
246264001	1	15	-0.705	0.0368	2/11/2010@10:21:11			
246269001	1	16	0.112	0.0725	2/11/2010@10:22:05			
246278001	1	17	-1.45	0.00411	2/11/2010@10:22:58			
246292001	1	18	-0.826	0.0315	2/11/2010@10:23:52			
246292002	1	19	-1.37	0.00769	2/11/2010@10:24:45			
246293001	1	20	0.188	0.0758	2/11/2010@10:25:38			
WCN100211-03	1	S3	103	4.55	2/11/2010@10:26:31			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	2.6 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	2.6 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100211-08	1	S7	-1.02	0.0233	2/11/2010@10:28:21			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-1.02 < 5.00					
		Message	CCB Passed					
		Action	Continue					
DQM Test: < - Concentration Limit								
		Result:	-1.02 > -5.00					
		Message	CCB Passed					
		Action	Continue					
246293003	1	21	-0.359	0.0519	2/11/2010@10:30:10			
246306001	1	22	-0.770	0.0340	2/11/2010@10:31:03			
246313001	1	23	-1.08	0.0206	2/11/2010@10:31:55			
246323001	1	24	-0.601	0.0413	2/11/2010@10:32:47			
246334001	1	25	-2.72	-0.0512	2/11/2010@10:33:40			
246436001	1	26	-0.864	0.0299	2/11/2010@10:34:33			
246448001	1	27	-1.37	0.00777	2/11/2010@10:35:25			
246472001	1	28	-0.472	0.0470	2/11/2010@10:36:17			
WCN100211-03	1	S3	103	4.55	2/11/2010@10:37:09			CCV
		Known Conc:	100					
DQM Test: > + Percent Relative Difference								
		Result:	2.7 < 10.0					
		Message	CCV Passed					
		Action	Continue					
DQM Test: < - Percent Relative Difference								
		Result:	2.7 < 10.0					
		Message	CCV Passed					
		Action	Continue					
WCN100211-08	1	S7	-0.764	0.0342	2/11/2010@10:38:59			CCB
		Known Conc:	0.00					
DQM Test: > + Concentration Limit								
		Result:	-0.764 < 5.00					

Message	CCB Passed				
Action	Continue				
DQM Test: < - Concentration Limit					
Result:	-0.764 > -5.00				
Message	CCB Passed				
Action	Continue				

Analyte Properties Table for OM_2-11-2010_09-49-17.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

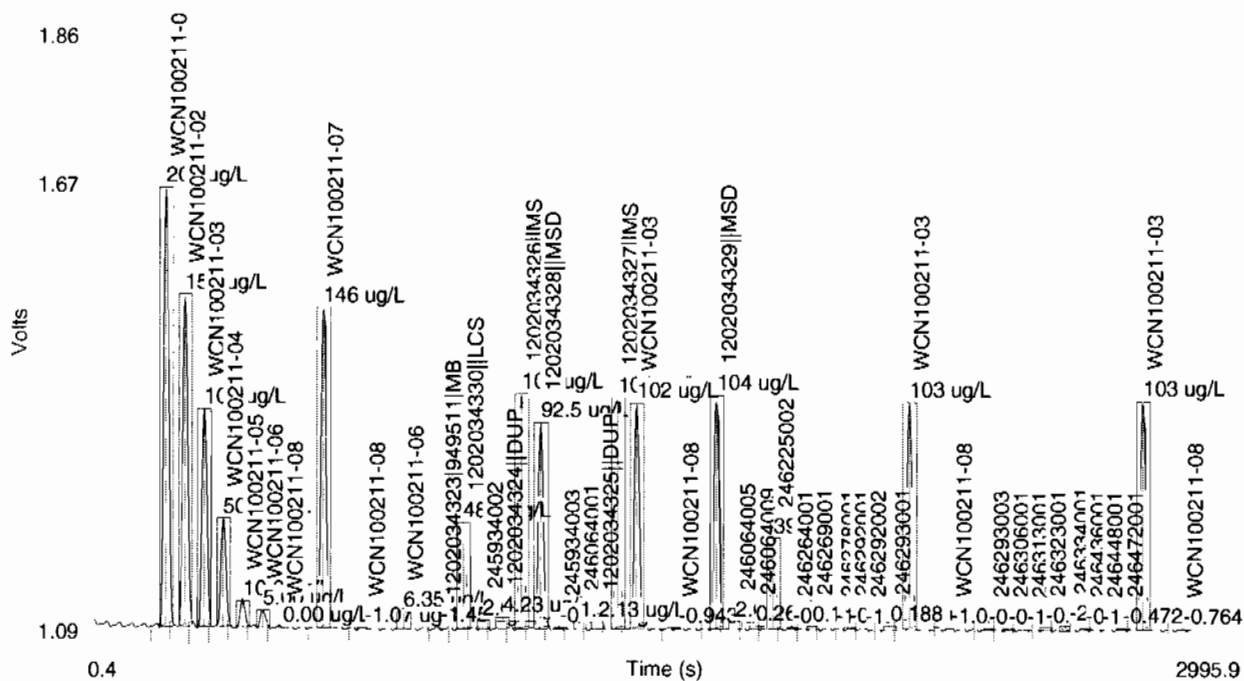


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	8.83	0.563	-0.4	2/11/2010	09:53:41
2	150	1	6.63	0.424	-0.2	2/11/2010	09:54:33
3	100	1	4.36	0.279	1.6	2/11/2010	09:55:25
4	50.0	1	2.20	0.140	2.4	2/11/2010	09:56:18
5	10.0	1	0.540	0.0343	-7.1	2/11/2010	09:57:11
6	5.00	1	0.362	0.0225	-26.4	2/11/2010	09:58:05
7	0.00	1	0.0328	0.00101		2/11/2010	09:58:59

Figure 1: TCYANIDE

